# Criteria I

| Key Indicator | Curricular Planning and Implementation |
|---|---|
| Metric No. | 1.1.1 |

**1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment**

**IQAC Coordinator**

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts
Commerce & Science
Kondhwa (Bk.), Pune - 411 0 1

# 1.1.1 Curricular Planning and Implementation

## 1.1.1

| SN | Contents |
|---|---|
| 1 | Academic Audit Report |
| 2 | Academic Calendar |
| 3 | Time Tables |
| 4 | Session Plans |
| 5 | Continuous Internal Assessment |

# Criterion 1

# 1.1.1

# Effective Curriculum Planning & Delivery

# Academic Audit Report

# 2020-21

<div align="center">

**BRACT's**

**Vishwakarma College of Arts, Commerce and Science, Pune.**

**Academic and Administrative Audit(AAA) Report**

**2020-21**

</div>

SECTION -A

The Academic and Administrative Audit Committee visited Vishwakarma College of Arts Commerce and Science Pune-48. The contents of AAA Committee report are as given below.

| Day: | Dates: | Time: One Day |
|------|--------|---------------|
| Friday | 27th August 2021 | |
| | | |

The Academic and Administrative Audit Committee is consisted of the following members for the academic year 2020-21.

| Sr. No. | Name | Designation | Address | Signature |
|---------|------|-------------|---------|-----------|
| 1 | Dr.Prakash Wadgaonkar | Scientist | NCL, Pune | PPWadgaonkar |
| 2 | Dr. Prashant Kulkarni | Scientist | DRDO, Pune & Asso. Prof. | |
| 3 | Dr. Shailesh Kasande | CEO and Group Director | Suryadatta Institute, Pune | |

The authorities of the trust and college who interacted with Academic and Administrative Audit Committee are:

| Sr. No. | Name | Designation | Address | Signature |
|---------|------|-------------|---------|-----------|
| 1 | Mr. Bharat Rajkumar Agarwal | Managing Trustee | Vishwakarma Institute, Pune | |
| 2 | Dr. Arun R.Patil | Principal | VCACS, Pune | |
| 3 | Mrs. Anjum A. Patel | IQAC coordinator | VCACS, Pune | |
| 4 | Mr.Sudhir D. Chitnis | HOD-Science | VCACS, Pune | |
| 5 | Dr.Shital P Mantri | HOD-Commerce | VCACS, Pune | @PMantri |
| 6 | Mr.Suresh E.Sase | Office Suprtendent | VCACS, Pune | |
| 7 | Mr.Santosh A Karekar | Finance Officer | VCACS, Pune | |

The Academic and Administrative Audit Committee report is submitted on 27<sup>th</sup> Aug, 2021 To the college.

| Name of Committee Member | Signature |
|---|---|
| Dr.Prakash Wadgaonkar | PPWadgaankar |
| Dr. Prashant Kulkarni | |
| Dr. Shailesh Kasande | |

## SECTION B:

### 1.1    About Academic and Administrative Audit:

The purpose of the Academic and Administrative Audit is to evaluate the performance of the various departments and give suggestions for further improvement of the quality of teaching, research, administration, and curricular and extracurricular activities.

### 1.2    Methodology:

The College has constituted IQAC and other various committees to conduct and review activities at the departmental level.

The AAA committee interacted and discussed with the Principal, interacted with the IQAC Members, Visited all the departments, Interacted with current year enrolled Students, Visited Library, Sports Facilities, Health Centre, Interacted with Non–Teaching Staff, Checked Documentary evidences and conducted Exit Meeting.

The faculty members presented presentations about the performance of their respective departments and the members of the AAA Committee interacted with them to assess the academic and administrative performance of the departments.

### 1.3    Objectives to conduct Academic and Administrative Audit.

To prepare for AQAR 2020-21.

To understand the Academic and Administrative status of the college for the year 2020-21.

To design and develop effective teaching and learning processes

To evaluate course and program outcomes.

To assure quality education by implementation of co- curricular and extracurricular activities.

To find out Strengths, Weaknesses, Opportunities and Challenges at various levels and to take appropriate measures in those areas.

## 1.4 Vision, Mission, and Objectives.

**Vision:**

Our Institute aspires to have a better impact on students through quality education by imparting qualities of confidence and excellence.

# उद्धरेदात्मनात्मानं ( भगवद्गीता अध्याय ६ ओवी ५ वी )

To put it in simple words- one needs to introspect, understand inbuilt qualities. Nurture / cultivate those qualities. Acquire new knowledge; strive to add on in available knowledge & skills. Thus one can uplift self.

**Mission:**

Our mission is to prepare competent enthusiasts, imbibed with the spirit of professionalism and responsible citizenship in a competitive global environment. To this end, management and faculty commit themselves to the pursuit of excellence in education through discovery and dissemination of knowledge, development of technical and social skills and inculcation of values that define professional conduct.

The college approach to quality assurance and sustenance.

1. The college has adopted a working definition of quality assurance and sustenance which are compatible with its Mission and Visions.
2. IQAC promotes a participatory approach for the development of the college.
3. Computerised documentation process has been effectively followed.
4. Quality documents are prepared in respect of policies and procedures adopted.
5. Various committees are constituted and their functional performance is as per the expectations.
6. Provide quality education to the students from various parts of the society, to make them academically and technically competent.

**SECTION C:**

Observations:

The overall observations of the AAA committee based on the inputs collected from IQAC and various departments and interaction with the stakeholders are:

1] Organize International conference,

2] Establish Commerce forum for better development of students,

3] Take initiatives on Welfare of Teaching & non-teaching staff.

4] Encourage faculties for research-oriented activities.

5] Focus more on physical, metal, sociel & emotional well-being of students & staff members.

## SECTION D

1.1 The programmes and Add-on Courses offered by the college during the academic year 2020-21.

| Sr. No. | Name of the Programme | Duration |
|---|---|---|
| 1 | Employability Skills Enhancement Programme | 30 |
| 2 | Personality And Soft Skill development(30 Hours) Sem I | 30 |
| 3 | Personality And Soft Skill development(30 Hours) Sem I | 30 |
| 4 | Employability Skills Enhancement Programme | 15 |
| 5 | Computerised Accounting | 15 |
| 6 | Tally and Computer based accounting(30 Hours) Sem II | 30 |
| 7 | Tally and Computer based accounting(30 Hours) Sem II | 30 |
| 8 | Environmental Science - Sem III | 15 |
| 9 | Environmental Science - Sem IV | 15 |
| 10 | Basic Course in Environment Awareness Sem III | 30 |
| 11 | International Etiquettes and Manerism Sem IV | 30 |
| 12 | Basic Course in Environment Awareness Sem III | 30 |
| 13 | International Etiquettes and Manerism Sem IV | 30 |
| 14 | Investment Analysis and Portfolio Management | 15 |
| 15 | Introduction to machine learning for Coders | 20 |
| 16 | Export Import: Basic Procedures and Documentation | 15 |

Number of existing programmes: UG- 5 PG -3 and Certificate Courses- 2
All programmes are conducted as per the curricula designed and prescribed by the savitribai phule Pune University except Certificate courses curriculum. The curricula for certificate courses are designed and developed by the faculty members along with experts from the respective courses.

1.2 The students' enrolment for the academic year 2020-21. .

| Sr. No. | Categories | Male | Female | Total |
|---|---|---|---|---|
| 1 | SC | 46 | 22 | 68 |
| 2 | ST | 03 | 00 | 03 |
| 3 | NT | 31 | 11 | 42 |

| | | | | | |
|---|---|---|---|---|---|
| 4 | SBC | 18 | 9 | 27 |
| 5 | OBC | 133 | 65 | 198 |
| 6 | OPEN | 1063 | 522 | 1585 |
| 7 | VJ | 05 | 03 | 08 |
| | Total | 1299 | 632 | 1931 |

1.3    **The teaching and non-teaching staff appointed for the academic year 2020-21.**

| Sr. No. | Designation | Qualification | Male | Female | Total |
|---|---|---|---|---|---|
| 1 | Professor | Ph.D. | 1 | 2 | 3 |
| 2 | Associate Professor | - | - | - | - |
| 3 | Assistant Professor | PG/NET/SET/MPhil/PhD | 6 | 26 | 32 |
| 5 | Director of Physical Education | MPEd | 1 | - | 1 |
| 6 | Librarian | MLib | 1 | - | 1 |
| 7 | Office Superintendent | - | 1 | - | - |
| 8 | Senior Clerk | MCom | 2 | - | 2 |
| 9 | Junior Clerk | BA | 2 | - | 2 |
| 10 | System Admin | MBA(IT) | 1 | - | 1 |
| 11 | Laboratory Assistant | MBA(IT) | 1 | - | 1 |
| 12 | Peon | | 3 | 1 | 4 |

**1.4 Number of courses that include experiential learning through project work/field work/internship during the academic year 2020-21.**

| Sr. No. | Name of the Course | Name of the Subject | Nature of Experiential Learning | No. of Students Participated |
|---|---|---|---|---|
| 1 | SYBSc(CS) | Software Engineering | Project Work | 176 |
| 2 | TYBSc(CS) | Project | Project Work | 124 |
| 3 | TYBBA(CA) | Project | Project Work | 77 |
| 4 | SYMSc(CS) | Project | Internship | 58 |
| 5 | SYMSc(CA) | Project | Internship | 12 |
| 6 | SYBBA | (A A 306 MM - Retail Management - Business Exposure & Project) / (B 306 FM - Banking & Finance - Business Exposure & Project) / (C 306 HRM - Legal Aspects in Human Resources - Business Exposure & Project) / (A 416 MM - Digital Marketing -Business Exposure & Project) / <br><br>(B 416 FM - Financial Services - Business Exposure & Project) / <br><br>(C 416 HRM -Employee Recruitment & Record Management - Business Exposure & Project) | Project Work | 93 |
| 7 | TYBBA | (A506 Legal Aspects in Marketing Management + Project) / (B506 Legal Aspects of Finance & Security Laws + Project) / (C506 Cases in Human Resource Management +Project)/ (A606 Cases in Marketing + Project 50 marks theory + Project | Project Work/ Internship | 78 |

| | | | | |
|---|---|---|---|---|
| | | (Internship )) / (B606 Cases in Finance + Project 50 marks theory + Project (Internship )) / (C606 Recent Trends & HR Accounting + Project (Internship)) | | |
| 8 | SYBBA(IB) | SYBBA (IB) Sem III A -306 Supply Chain Management -Business Exposure & Project A- 406 International Warehouse and Supply Chain Management - Exposure & Project<br><br>SYBBA (IB) Sem III A -306 Supply Chain Management -Business Exposure & Project<br><br>SYBBA (IB) Sem IV & A-406International Warehouse and Supply Chain Management - ExposureProject | Project Work | 92 |
| 9 | TYBBA(IB) | (A 506 Legal Dimensions in International Marketing (II) + Project (Internship) ) / (B506 Legal Dimensions in Financial Management (II)  + Project (Internship)) / (A 606 Brand Management (II) + Project (Internship))/ ( B 606 Cross Cultural Relationship (II) + Project (Internship)) | Project Work/ Internship | 84 |
| 10 | SYBBA(CA) | Project | Project Work | 80 |
| 11 | MCom | Project | Project Work/ Case study | 01 |

## 1.5 FEEDBACK MECHANISM:

i) **Feedback Process:** The College has a mechanism for receiving online structured feedback from the students and different stakeholders on overall Institutional performance. Feedback form is framed and approved by IQAC of this college and is available on college website. In the year 2020-21 total 1312 feedbacks were received through online mode from the students. Teachers are rated on the scale of 1 to 5 as Poor (1), Average (2), Good (3),Very Good(4) and Outstanding(5).

ii) **Analysis of teaching learning process :** Looking to the analysis of online feedback received from students ,81 percent students say that teachers are punctual. 84 percent students are much satisfied for teacher's Subject Knowledge and session preparedness. According to students 86 percent teachers are eager to teach. Regarding teaching skills 80 percent students feel that teachers always communicate the concept clearly and 80 percent think that teachers encourage students for different ideas. Above 82 percent students are satisfied with academic support facilities like library, sports, Canteen Food quality, lab, Drinking water availability etc. whereas about 80 to 84 percent students are satisfied for the administration work. Regarding Cleanliness 90-91 percent students are satisfied.. In case of library facilities and availability of books 84 percent of students are satisfied.

iii) Feedback forms are analyzed by Administrative Staff, they submit a report of analysis to the Principal which is submitted to Management Further. Necessary action are taken By HOD like improvement in facilities, arrangement of lectures and practicals regularly, intimating the concerned teachers etc. This analysis is shared with all the teaching and non teaching staff so everyone should take care of improvement. The college tries to maintain the confidentiality of these responses. Employers, Teachers, Alumni and parents respond using offline mode. The feedback and suggestions received are placed before the Principal as well as management for corrective measures from time to time. In the case of overall quality of education and discipline all the feedback is considered as important .

**1.6**     Pass percentage of Students of previous completed academic year 2020-21.

| Sr. No. | Name of the Programme | Number of Student appeared | Number of Students passed | Pass percentage |
|---|---|---|---|---|
| 1 | B. Com | 120 | Result Pending from SPPU | |
| 2 | BBA | 80 | | |
| 3 | BBA(CA) | 82 | | |
| 4 | BBA(IB) | 85 | | |
| 5 | B. Sc. (CS) | 135 | 131 | 97.03 % |
| 6 | M. Sc. (CS) | 58 | 58 | 100.00% |
| 7 | M.Sc.(CA) | 12 | 12 | 100.00% |
| 8 | MCom | 01 | 01 | 100.00% |

**1.9**     **The college has set-up a Research Committee to promote research. The composition of the committee for the year 2020-21**

| Sr. No. | Name of the Member | Designation | Role on the Committee |
|---|---|---|---|
| 1 | Dr. Arun R. Patil Principal. VCACS | Principal | Chairman |
| 2 | Dr. Jin Sang Kim | Scientist, KIST South Korea | Member |
| 3 | Dr. D. R. Mane | Director of Higher Education, Government of Maharashtra | Member Member |
| 4 | Dr. Wadgaonkar Prakash | Scientist 'F' at National Chemical Laboratory(NCL) | Member |

| | | | |
|---|---|---|---|
| 5 | Dr. Badigar Manohar | Scientist 'F' at National Chemical Laboratory(NCL.) | Member |
| 6 | Dr.Shailesh Kasande | Director, Suryadatta Institute, Pune | Member |
| 7 | Dr. Sudhakar Jadhavar | Dean Commerce Faculty, SPPU | Member |
| 8 | Dr. Anant Sardesai | Director General of MCCIA | Member |
| 9 | Dr. Prashant Kulkarni | DIAT, DRDO Pune | Member |
| 10 | Dr. Ajit N. Phadkule | Department of Chemistry, Sangmeshwar College, Solapur. | Member |
| 11 | Dr. G. S. Rashinkar | Department of Chemistry, Shivaji University, Kolhapur. | Member |
| 12 | Dr. Atul Killedar | Manager Chemical Technology at Vishay Components India PVT LTD. | Member |
| 13 | Prof. Sudhir Chitnis | HOD, Computer Science, VCACS. | Member |
| 14 | Dr. S. P. Nadgouda | Ex-Vice Principal, BMCC, Pune | Member |

**1.10** **The faculty members have published books, research papers and papers presented at different level conferences as per following during the academic year 2020-21.**

| Sr. No. | Name of the book /Research Paper | Name of the teacher | Name of Journal | Year | ISSN/ISBN/Publisher |
|---|---|---|---|---|---|
| 1 | Stress ,It's Consequences & way to combat It in Modern Era | Snehal Kulkarni | | 2020-21 | |
| 2 | Machine learning amalgamation of Mathematics,Statistics & Electronics | Snehal Kulkarni | International Research Journal on Advanced Science Hub RSP Science Hub | 2020-21 | 2582-4376 |

| | | | | | |
|---|---|---|---|---|---|
| 3 | Covid 19, Online Education System, and Front End Challenges | Snehal Kulkarni | Economic, Social, Psychological, Political, Educational, & Literary Impact of Covid-19 & All Multidisciplinary Subjects for Research | 2020-21 | 978-93-89840-55-1 |
| 4 | Climate Change, India and Its Perspective | Snehal Kulkarni | | 2020-21 | |
| 5 | "Distributed firewall with dynamic intrusion detection module" | Smita Deshmukh | "International Journal of advanced research in engineering and technology" | 2020-21 | 0976-6480 / 0976-6499 |
| 6 | "Distributed firewall with dynamic intrusion detection module" | Prajakta Patil | "International Journal of advanced research in engineering and technology" | 2020-21 | 0976-6480 / 0976-6499 |
| 7 | "A study and Review of Analysis of Cases of Molestation against Women and Minor" | Anjum Patel | International Journal of Management Technology and Engineering | 2020-21 | 2249-7455 |
| 8 | A Data Mining Framework using k-means to Analyze Highway Accident data in Maharashtra | Sudhir Chitnis | International Journal of Management (IJM) (Impact Factor 10.1471) | 2020-21 | 0976-6502 / 0976-6510 |
| 9 | Machine learning amalgamation of Mathematics,Statistics & Electronics | Trupti Gaikwad | International Research Journal on Advanced Science Hub RSP Science Hub | 2020-21 | 2582-4376 |
| 10 | Machine learning amalgamation of Mathematics,Statistics & Electronics | Ruta Vaidya | International Research Journal on Advanced Science Hub RSP Science Hub | 2020-21 | 2582-4376 |
| 11 | Covid 19, Online Education System, and Front End Challenges | Trupti Gaikwad | Economic, Social, Psychological, Political, Educational, & Literary Impact of Covid-19 & All Multidisciplinary | 2020-21 | 978-93-89840-55-1 |

| | | | | Subjects for Research | | |
|---|---|---|---|---|---|---|
| | 12 | Covid 19, Online Education System, and Front End Challenges | Ruta Vaidya | Economic, Social, Psychological, Political, Educational, & Literary Impact of Covid-19 & All Multidisciplinary Subjects for Research | 2020-21 | 978-93-89840-55-1 |
| | 13 | A study on IOT addressing the Corona Virus & its applications | Poonam Chavan | Two days National Web conference on Emerging trends in Electronics and Computer Science | 2020-21 | |
| | 14 | Data packet security in manet and vanet | Smita Deshmukh | "International E-Conference on Modern Research in Agriculture, Biological, Medical and Environmental Sciences organized by Indian Academicians and Researchers Association(IARA)" | 2020-21 | |
| | 15 | Data packet security in manet and vanet | Prajakta Patil | "International E-Conference on Modern Research in Agriculture, Biological, Medical and Environmental Sciences organized by Indian Academicians and Researchers Association(IARA)" | 2020-21 | |

| | | | | | |
|---|---|---|---|---|---|
| 16 | Blockchain Technology: Rising Trend In Various Applications | Smita Deshmukh | Recent Trends in Computing (ICRTC 2021)" organized by Department of Computer Engineering, Sanjivani College of Engineering, Kopargaon, Maharashtra, India | 2020-21 | |
| 17 | Blockchain Technology: Rising Trend In Various Applications | Prajakta Patil | Recent Trends in Computing (ICRTC 2021)" organized by Department of Computer Engineering, Sanjivani College of Engineering, Kopargaon, Maharashtra, India | 2020-21 | |
| 18 | An approach to analyze Issues and challenges of road accidents scenarios in India | Sudhir Chitnis | Multifunctional Electronic Materials and Processing (MEMP-2021), CMET, Pune | 2020-21 | |
| 19 | Statistical Analysis and Classifier Accuracy Improvements Models for Road Accident Issues on National Highways in India | Sudhir Chitnis | Computer Technology, Management and its Application (IC2TMA 2021), IMCC, Pune | 2020-21 | |
| 20 | A study of effectiveness of welfare facilities on job | Dr. Shital Mantri | New horizons in commerce , Management and Economics : A way forward | 2020-21 | |
| 21 | A study of effectiveness of welfare facilities on job | Vaishali Kale | New horizons in commerce , Management and Economics : A way forward | 2020-21 | |

| 22 | A study of effectiveness of welfare facilities on job | Sheetal Waghmare | New horizons in commerce , Management and Economics : A way forward | 2020-21 | |
| 23 | Legal Aspects in Human Resources | Dr. Shital Mantri | Legal Aspects in Human Resources | 2020 | 978-93-90031-82-5 |
| 24 | Human Resource Management Functions & Practices | Dr. Shital Mantri | Human Resource Management Functions & Practices | 2021 | 978-93-90570-86-7 |

**1.11    Number of workshops/seminars conducted during the academic year 2020-21**

| Sr No | Name of the capability enhancement program | Date of implementation (DD-MM-YYYY) | Number of students enrolled |
|---|---|---|---|
| 1 | **Webinar-**Python Programming and Machine Learning for B.Sc(CS),BBA(CA) | 9/11/2020 | 101 |
| 2 | **Workshop-**Practical Implementation of Machine Learning Using Python" for M.Sc(CS) and M.Sc(CA) | 02-01-2021 and 09-01-2021 | 33 |
| 3 | **Webinar-**Investment Awareness Programme for students(BSE)"For B.Com,BBA,BBA(IB) | 2/1/2021 | 93 |
| 4 | **Skill Development Programme-**Webinar on Entrepreneurship Skill Development -Guidance Session" for B.Com,BBA,BBA(IB) | 2/26/2021 | 66 |
| 5 | **National level webinar-**Future of Science,Technology and Innovation:Impact on Education Skills and Work" under Science Department | 3/1/2021 | 108 |

| | | | |
|---|---|---|---|
| 6 | **Webinar-**Human Pulse Detection System and Pulse Analysis" for B.Sc(CS),Bsc(CA) | 3/4/2021 | 40 |
| 7 | National level webinar-Work Stress Management & Emotional Well-being during COVID-19 | 3/5/2021 | 77 |
| 10 | **National level Workshop-**Hands on Database Technology" for MSc(CA),MSc(CS) | 4/10/2021 | 94 |
| 11 | **Workshop-** Machine learning future Challenge | 15-6-2021 and 19-6-2021 | 126 |
| 12 | **Webinar -** " International Yoga Day" | 6/21/2021 | 148 |
| 13 | **Webinar-**Health is Women's Wealth | 6/22/2021 | 148 |
| 14 | **Workshop-**Women Entrepreneurship (Bakery Products) | 6/23/2021 | 153 |
| 15 | **Webinar-Financial** Empowerment Of Girls | 6/24/2021 | 111 |
| 16 | **Webinar-**Personality Development of Women-Key to Success | 6/25/2021 | 125 |
| 17 | **Skill Development Programme-**Employability Skills Enhancement Programme | 02-02-2021 to 05/02/2021 | 98 |
| 18 | Personality And Soft Skill development(30 Hours) | 12-12-2020 to 17-01-2021 | 86 |
| 19 | Personality And Soft Skill development(30 Hours) | 12-12-2020 to 17-01-2021 | 87 |
| 20 | **Skill Development Programme-**Employability Skills Enhancement Programme | 12-12-2020 to 05-01-2021 | 193 |

| 21 | Computerised Accounting- For BCom | 02-06-2021 to 18-06-2021 | 175 |
|----|----------------------------------|--------------------------|-----|
| 22 | Tally and Computer based accounting(30 Hours) | 02-06-2021 to 18-06-2021 | 86 |
| 23 | Tally and Computer based accounting(30 Hours) | 02-06-2021 to 18-06-2021 | 87 |
| 24 | Environmental Science - Sem III | 31-03-2021 to 08-04-2021 | 200 |
| 25 | Environmental Science - Sem IV | 02-06-2021 to 22-06-2021 | 191 |
| 26 | Human Pulse Detection System and Pulse Analysis | 3/4/2021 | 40 |
| 27 | Job Oriented NSDC Certified Course | 9/28/2021 | 244 |
| 28 | Webinar- Women in leadership :Achieving an equal future | 3/8/2021 | 207 |

## 1.12 Activities under National Service Scheme/Student Development Office

The college has 100 Volunteers NSS unit headed by Shri Jay Nikambe as a programme Officer. NSS unit has regularly organized activities of social, national and community importance. The details of the NSS unit are given below.

| Sr. No | Title of the activities | Organising unit/ agency/ collaborating agency | Number of teachers coordinated in such activities | Number of students participated in such activities |
|--------|------------------------|-----------------------------------------------|--------------------------------------------------|---------------------------------------------------|
| 1 | Vruksharopan | NSS and SWO | 4 | 8 |
| 2 | Vachan Prerana Din | NSS and SWO | 10 | 120 |
| 3 | Samvidhan Din | NSS and SWO | 7 | 27 |
| 4 | Savitribai Phule Jayanti | NSS and SWO | 7 | 52 |
| 5 | Marathi Bhasha Pandharwada | NSS and SWO | 12 | 128 |
| 6 | COVID Janjagruti | NSS and SWO | 35 | 48 |
| 7 | Vyasanmukti Samupadeshan | NSS and SWO | 4 | 18 |
| 8 | Mahila Arogya Karyakram | NSS and SWO | 5 | 22 |
| 9 | Mask and Sanitizer Vatap | NSS and SWO | 4 | 6 |

**1.13** The college has entered Memorandum of Undertaking (MoU) with various institutions for internship, field visit, on- the –job training of the students. The MoUs details are given below.

| Sr. No. | Title of the Linkage | Name of the Institution | Year of Commencement | Duration ( From To) |
|---|---|---|---|---|
| 1 | Providing add on certificate courses for SYBBA and SYBBA IB students | ERA Edutech, Pune | 2020 | 2020-2025 |
| 2 | To utilize the expertise and sharing of knowledge between the entities | Shri Siddhivinayak Mahila Mahavidyalaya | 2021 | 2021-2026 |
| 3 | To offer training and workshops for students/ faculties and handson for software, field sessions | EduxLabs , India | 2021 | 2021-2024 |
| 4 | To provide student and faculty exchange program | The University of Huddersfield, UK | 2019 | 2019-2024 |
| 5 | To provide student and faculty exchange program | Yewon Arts University, South Korea | 2019 | 2019-2024 |

**1.14** Number of functional MoUs with National and International industries during the year 2020-21

| Sr. No. | Name of the institution/ industry/ corporate house | Year of signing MoU | Duration | List the actual activities under each MOU for the year | Number of students/teachers participated under MoUs |
|---|---|---|---|---|---|
| 1 | Vijaya's Infinity School | 2021 | 5 Years | ICT Based seminars, | 65 |

| | | | | of Technology Private Ltd. | |
|---|---|---|---|---|---|
| 2 | SSP Technology | 2020 | 5 Years | experiential learning / Industrial Training | 4 |
| 3 | Shri. Mahalaxmi Technosales, Kolhapur | 2020 | 5 Years | Industrial Training | 2 |
| 4 | Sushilanand Equipments, Kolhapur | 2020 | 5 Years | Industrial Training | 2 |

## 1.15 Physical Facilities/Infrastructure Facilities:

The policy of the college is to create and maintain state of art infrastructure to facilitate effective teaching learning. As a part of this the college has been enhancing its infrastructure on a continuous basis by modernizing classrooms with ICT enabled facilities. The following facilities are available in the college.

| Sr. No. | Particulars | Quantities |
|---|---|---|
| 1 | Classrooms | 20 |
| 2 | Computer Laboratories | 9 |
| 4 | Electronics lab | 2 |
| 5 | Smart class rooms | 4 |
| 6 | Principal's chamber | 1 |
| 7 | Office room | 2 |
| 8 | IQAC room | 1 |
| 9 | Examination strong room | 1 |
| 10 | Faculty room | 2 |
| 11 | Administrative block | 1 |

| | | |
|---|---|---|
| 12 | Ladies common room | 1 |
| 13 | Gents Common Room | 1 |
| 14 | Conference Hall | 1 |
| 15 | Placement Cell | 1 |
| 16 | Computers | 391 |
| 17 | Server | 1 |
| 18 | Printers | 31 |
| 19 | Laptops | 11 |
| 20 | Projectors | 15 |
| 21 | CCTV Camera | 79 |
| 22 | Digital Smart boards | 2 |
| 23 | NSS office | 1 |
| 24 | Students' Development office | 1 |
| 25 | Internet | 1 |
| 26 | Xerox machine | 4 |
| 27 | Biometric | 4 |
| 28 | Portable Water Facility | 1 |
| 29 | Parking Space | 2 |

1.16 The college has set-up a Library Advisory Committee to procure books as per the prescribed curriculum. The composition of the committee for the year 2020-21 is as given below.

| Sr. No. | Name of the teacher | Designation | Position of the Committee |
|---|---|---|---|
| 1 | Dr. Arun Patil | Principal | Chairperson |

| 2 | Mr. Suresh Sase | Office Suprtendent | Member |
| 3 | Prof. Sudhir Chitnis | H.O.D Science | Member |
| 4 | Dr. Shital Mantri | H.O.D Commerce | Member |
| 5 | Mr. Sandip Bhosale | Librarian | Secretary |
| 6 | Prof. Anjum Patel | IQAC Coordinator | Member |
| 7 | Prof. Vaishali Kale | Co-Ordinator | Member |
| 8 | Prof. Poonam Chavan | Assistant Professor | Member |
| 9 | Mr. Sunil Bhatt | C.A | Member |

**1.17  Annual expenditure incurred on purchases of books and journals for the academic year 2020-21 is as given below.**

| Expenditure on purchase of Text Books | Expenditure on purchase of Reference Books | Expenditure on purchase of Journals | Budget allocated | Expenditure on subscription to e-journals and other e-resources |
|---|---|---|---|---|
| 39313 | 87202 | - | 147200 | - |

**1.18  Average usage of library per day by the students and teachers during the year 2020-21**

| Method of computing per day usage of library | No of students accessing library per day | No of teachers accessing library per day |
|---|---|---|
| Teacher entry register | - | 15 |

**1.19  No. of computers, computers with access to internet, bandwidth of leased line connection and LAN configuration and speed available in the college for 2020-21.**

| No. of Computers | No. of Computers with access to internet | Bandwidth of leased line connection | LAN configuration and speed |
|---|---|---|---|
| 391 | 391 | 40Mbps+5Mbps | 1 Gbps |

**1.20** Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during 2020-21.

| Assigned budget on academic support facilities excluding salary | Expenditure on academic support facilities excluding salary | Assigned budget on physical facilities excluding salary | Expenditure on physical facilities excluding salary |
|---|---|---|---|
| 50000000 | 49010162.87 | 1952000 | 1271780 |

**1.21** No. of students benefited scholarships and freeships provided by the Government and the college for the year 2020-21.

| No. of students benefited by Government scheme | Total Amount | No. of students benefited by Non-Government scheme | Total Amount |
|---|---|---|---|
| 40 | 1125150 | 81 | 595300 |

**1.22** No. of Skill enhancement and development schemes organized for the year 2020-21.

| Sr. No. | Name of the Scheme | No. of students participated |
|---|---|---|
| 1 | Guidance for Competitive Examinations | 244 |
| 2 | Career Counselling | 1175 |
| 3 | Soft Skill Development | 1003 |
| 4 | Remedial Coaching | 42 |
| 5 | Language Coaching | 354 |
| 6 | Bridge Courses | 516 |
| 7 | Yoga and meditation | 373 |
| 8 | Personal Counselling | 4 |

**1.23** The college has a transparent mechanism for timely redressel of students' grievances including sexual harassment and ragging cases. The details about this mechanism is given below.

| No. of Meetings Held | No. of Grievances Appeared | No. of Grievances Redressed | Average Time for Settlement of Grievance Redressal |
|---|---|---|---|
| 2 | 0 | 0 | - |

**1.24** The college has an active placement Cell, its details for the year 2020-21 is as given below.

| Sr. No. | No. of Students Placed | Name of the Employer | Average Package Received | Program graduated From |
|---|---|---|---|---|
| 1 | 1 | SoftwareAG Bangalore Technologies Private Limited | 8L | MSc(CS) |
| 2 | 3 | Capgemini Technology Services | 4.5L | M.Sc.(CS) |
| 3 | 24 | INFOSYS | 2.5L | B.Sc.(CS), M.Sc.(CS), B.B.A.(CA) |
| 4 | 13 | TCS | 2.1L | M.Sc.(CS) |
| 5 | 2 | WNS | 3L | B.Sc.(CS), B.B.A.(CA) |
| 6 | 1 | Capita | 3L | B.Sc.(CS), B.B.A.(CA) |
| 7 | 2 | Amazon | 2.5L | B.B.A.(CA),BSc(CS) |
| 8 | 3 | Vyomlabs Pvt.Ltd | 2.8L | BSC(CS) |
| 9 | 2 | Vodafone Intelligent Solutions, Pune | 3L | M.Sc.(CS) |
| 10 | 129 | SSP TECHNOLOGY, OORT Technology, RedNucleus, Mphasis, LNT Infotech, N-Infinity infotech Pvt Ltd, Any etc. | 2-2.5L | M.Sc.(CS), B.Sc.(CS), B.B.A.(CA), B.B.A.(IB),BCom |

**1.25** The students of the college have joined Higher Education after their graduation, (2019-20 Batch) its details are given below.

| No. of Students Enrolling in to Higher Education | Program Graduated From | Name of Program Admitted to |
|---|---|---|
| 81 | BSc(CS), BBA, BBA(CA), M.Sc.(CS) | MBA, MSc(CA), MSc(CS) |

**1.26** The college has a vibrant and Registered Alumni Association, its details are as given below.

| Name of the Alumni Association | Year of Establishment | No. of Meetings Held in 2020-21 | Dates of Meetings | No. of Alumni attended | Total no. of Alumni enrolled | Quantum of Contribution |
|---|---|---|---|---|---|---|
| Vishwakarma College of Arts, Commerce and Science Alumni Association | 13/01/2017 | 1 | 24th November, 2020 | 101 | 104 | 12000 |

**1.27** The college has implemented e-governance policy in the following areas during the year 2020-21.

| Sr. No. | Areas of E-Governance | Name of the Vendor with Contact Details | Year of Implementation |
|---|---|---|---|
| 1 | Administration | Vriddhi Software Solutions Pvt. Ltd., | 2014 |
|  |  | Algorhythms Consultants Pvt. Ltd. SLIM - 02025281066 | 2014 |
| 2 | Finance and accounts | Tally ERP 9 | 2015 |
| 3 | Student Admission and Support | Vriddhi Software Solutions Pvt. Ltd. |  |
|  |  | Vishwakarma Global Education Service Pvt. Ltd. VOLP, EduPlus | 2019 |

**1.28** The college has established IQAC Cell as per the guideline laid-down by NAAC and undertakes quality initiatives every year for promoting quality culture in the college. During the academic year 2020-21 the following activities were organized by the IQAC. (Meeting details of IQAC)

| Sr. No. | Name of Quality Initiative by IQAC | Date of Conducting Activity | Duration ( from to ) | No. of participants |
|---|---|---|---|---|
| 1 | Regular Meeting of IQAC | 15 June 2020, 11 November 2020, 22 March 2021 | 2020-21 | 14 |
| 2 | Submission of AQAR to NAAC | 31st Dec | 31st Dec | - |
| 3 | AAA and Institution follow up action | 27 Aug | 27 Aug | 9 |
| 4 | Participation in ARIIA | | 2019-20 | |
| 5 | ISO Certification | 20 February, 2020 | 1 day | - |
| 6 | Apply for Awards | 17th April 2021 | - | 3 ( Dr.APJ Abdul Kalam Lifetime Achievement National Award for achievement) 1 (Best Under Graduate College in Maharashtra for Teaching Excellence 2020-21 by Center for Education Growth and Research, ) New Delhi 1 (Academic Excellence National Award to VCACS by National Institute for Socio-Economic Development, Bengaluru ) |

**1.29** The college organizes gender equity promotion programs every year. The overall objective of the gender equality program is a society in which women and men enjoy the same opportunities, rights and obligations in all spheres of life. The details of the activities organized in the year 2020-21.

| Sr. No. | Name of the Activity | Date and Duration ( from-to ) of the Activity | No. of Female Participants | No. of male Participants |
|---|---|---|---|---|
| 1 | Gender Sensitization | 22nd Dec, 2020 | 63 | 55 |
| 2 | Adult Education and Awareness | 8th March, 2021 | 107 | 100 |

| | | | 6 | 6 |
|---|---|---|---|---|
| 3 | Street play on Gender Equality | 18th Feb, 2021 | 6 | 6 |
| 4 | Seminar on POSCO (Protection of Children from Sexual Offences) ACT | 14th Sept, 2021 | 74 | 42 |

1.30 The following resources are availed in the college for differently abled students.

| Physical Facilities (yes/ no) | Ramp/ rails (yes/no) | Braille software/ facilities (yes/ no) | Rest rooms (yes/ no) | Scribes for examination ( yes/ no) | Special Skill Development for them (yes/ no) | Any other similar facility(yes/no) |
|---|---|---|---|---|---|---|
| | | | | | | yes |
| yes | yes | - | yes | - | - | |

1.31 The college has provided the facilities for the management of the following types of degradable and non-degradable waste.

| Sr. No. | Type of Facility | Detail of the Facility |
|---|---|---|
| 1 | Solid waste management | Colour coded dustbins are used for segregation of waste. Housekeeping staff has been trained to handle the waste. Canteens use degradable and washable plates. Plastic Waste, Metal scrap and papers are recycled through recognized agencies. |
| 2 | E-waste management | E-waste is centrally collected and handed over to an agency, which is Maharashtra Pollution Control Board certified firm. Old batteries are replaced by a buy back scheme with a specific vendor. |

1.31 The college has made and maintained following facilities in the year 2020-21.

| Sr. No. | Name of the facility | Yes/ No |
|---|---|---|
| 1 | Rain water harvesting | Yes |
| 2 | Bore well facility | Yes |
| 3 | Underground Tanks | Yes |
| 4 | Maintenance of water bodies and distribution system | Yes |

**1.32** The college initiatives for greening the campus are as follows

| Sr. No. | Name of the Activity | Yes / No. |
|---|---|---|
| 1 | Restricted entry of automobiles | Yes |
| 2 | Use of Bicycles | Yes |
| 3 | Pedestrian Friendly pathways | Yes |
| 4 | Ban on use of Plastic | Yes |
| 5 | landscaping with trees and plants | Yes |

**1.33** The college undertakes quality audits on environment and energy on regular basis as per the following.

| Sr. No. | Type of Quality Audit | Particulars |
|---|---|---|
| 1 | Green audit | Yes |
| 2 | Energy audit | Yes |
| 3 | Environment audit | Yes |
| 4 | Clean and green campus recognitions/awards | Yes |
| 5 | Beyond the campus environmental promotional activities | Yes |

The college has a prescribed code of conduct for students, teaching and non-teaching and other staff and conducts periodic programmes in this regard.

The Code of Conduct governed by the university is adopted and displayed on the website. The committee is constituted to monitor adherence to the Code of Conduct. The college organizes professional ethics programmes for students, teaching and non-teaching staff and other staff before the commencement of academic session and annual awareness programme on Code of Conduct are organized at the conclusion of the academic year. The details are given below.

| Sr. No. | Particulars | Duration (from to ) |
|---|---|---|
| 1 | Organisation professional ethics programmes for students, teaching and non-teaching staff and other staff | 2020-21 |

| | 2 | Organisation of annual awareness programme on Code of Conduct | 2020-21 | |
|---|---|---|---|---|

1.34 The college celebrates / organizes national and international commemorative days, events and festivals as per the following details.

| Sr. No. | Festivals and birth/death anniversaries | Date | Activity | Participants |
|---|---|---|---|---|
| 1 | World Environmental day | 5th June 2020 | Speech on climate change | 42 |
| 2 | International Yoga day | 21st June 2020 | Yoga Session | 148 |
| 3 | Independence day | 15th August 2020 | Celebration of Independence day | 54 |
| 4 | Teachers day | 5th September 2020 | Celebration of Independence day | 45 |
| 5 | NSS day | 24th September 2020 | Guest Lecture on "स्वतंत्र्य भारताचा अमृतमहोत्सव आणि युवक" | 104 |
| 6 | Gandhi Jayanti & Tree Plantation Program | 2nd October 2020 | Tree Plantation Program | 8 |
| 7 | Constitution Day | 26th November 2020 | Awareness about Indian Constitution | 35 |

| 8 | AIDS Awareness Program | 1st December 2020 | Poster Competition | 96 |
|---|---|---|---|---|
| 9 | Savitribai Phule Jayanti & Essay Writing Competition | 7th January 2021 | Essay Writing Competition | 59 |
| 10 | National Voters Day | 25th January 2021 | Guest lecture on Voting-Our Responsibility | 183 |
| 11 | Republic day | 26th January 2021 | Celebration of Republic day | 42 |
| 12 | Covid Awareness Program | 7th February 2021 | Video and Charts Presentation | 83 |
| 13 | Covid Awareness & Mask Distribution Program | 16th February 2021 | Awareness about Covid in Village area | 10 |
| 14 | De-addiction campaign | 16th February 2021 | Awareness about smoking and its cons | 18 |
| 15 | International Women's Day | 8th March 2021 | Guest lecture on "Adult Education and Awareness" | 207 |

**1.35** The college implements best practices as per the NAAC format provided in the Manual. During the academic year 2020-21 under mentioned best practices were conducted by the college.

| Sr. No. | Name of the Best practice | Venue | No. of participants | Objectives of the Best practice |
|---|---|---|---|---|
| 1 | Covid Awareness Program and distribution of masks, sanitizers. | Vinzer, Taluka-Velhe, District-Pune | 10 | Awareness about Covid-19. Awakening about Maintaining social awareness and social consciousness. Field visit experience. |
| 2 | De-addiction counseling | Vinzer, Taluka-Velhe, District-Pune | 18 | Discouraging addicts. Explain the side effects of addiction. Awakening. Awareness of reality Personality development. |
| 3 | AIDS Awareness | Online | 96 | Awareness HIV information Social consciousness |

## 1.36    Future Plans of Institute

1. To develop the practice of online teaching and learning: The college will make budgetary provisions for purchase of its own G suite. All students admitted to the college will also be provided with institutional email Id.CIE will be conducted through proctored modules.

2. Encouragement to Teaching and Non-teaching staff for attending various Workshops, FDP's, Seminars for Online tools and techniques.

3. Strengthening Research: The College will take steps to get research grants, establish MOU, encourage Staff to undertake research projects, and to increase the students' involvement in research projects and field research work.

4. To upgrade Library Resources to include digital content, which can be accessed by Students and Faculty online; also Digital Contents will be made available in the form of Video Lectures, Study Notes, etc.on the web-site by Teachers.

5.To facilitate Faculty Exchange Programmes with Other Academic Institutions and International Linkages.

6. To enter into MOU with Corporates and Industry Associations to promote Academia – Industry Linkages, to enable placements, internship, training, etc. for the students.

7. To monitor Quality Assurance and Quality Enhancement activities of the Institution and to obtain ISO Certification.

8. To increase alumni and industry interaction with students.

9. To get an international accreditation like IIC,ARIIA, etc.

10. To encourage the faculty for Ph. D enrollment.

11. To get Permanent affiliation for PG courses.

12. Implementation of Fire Security System.

# 2019-20

<div align="center">

**BRACT's**

**Vishwakarma College of Arts, Commerce and Science, Pune.**

**Academic and Administrative Audit(AAA) Report**

**2019-20**

</div>

SECTION -A

The Academic and Administrative Audit Committee visited Vishwakarma College of Arts Commerce and Science Pune-48. The contents of AAA Committee report are as given below.

| Day: Saturday | Dates: 22nd August, 2020 | Time: One Day |
|---|---|---|
| | | |

The Academic and Administrative Audit Committee is consisted of the following members for the academic year 2019-20.

| Sr. No. | Name | Designation | Address | Signature |
|---|---|---|---|---|
| 1 | Dr.Prakash Wadgaonkar | Scientist | NCL, Pune | PPWadgaonkar |
| 2 | Dr. Prashant Kulkarni | Scientist & Ass. Prof. | DRDO, Pune | P.C. |
| 3 | Dr. Shailesh Kasande | CEO and Group Director | Suryadatta Institute, Pune | Kasande |

The authorities of the trust and college who interacted with Academic and Administrative Audit Committee are:

| Sr. No. | Name | Designation | Address | Signature |
|---|---|---|---|---|
| 1 | Mr. Bharat Rajkumar Agarwal | Managing Trustee | Vishwakarma Institute, Pune | Agarwal |
| 2 | Dr. Arun R.Patil | Principal | VCACS, Pune | Patil |
| 3 | Mrs. Anjum A. Patel | IQAC coordinator | VCACS, Pune | Patel |
| 4 | Mr.Sudhir D. Chitnis | HOD-Science | VCACS, Pune | |
| 5 | Dr.Shital P Mantri | HOD-Commerce | VCACS, Pune | SPMantri |
| 6 | Mr.Suresh E.Sase | Office Suprtendent | VCACS, Pune | |
| 7 | Mr.Santosh A Karekar | Finance Officer | VCACS, Pune | |

The Academic and Administrative Audit Committee report is submitted on 22<sup>nd</sup> August, 2020 To the college.

| Name of Committee Member | Signature |
|---|---|
| Dr.Prakash Wadgaonkar | *(signature)* |
| Dr. Prashant Kulkarni | *(signature)* |
| Dr. Shailesh Kasande | *(signature)* |

## SECTION B:

### 1.1 About Academic and Administrative Audit:

The purpose of the Academic and Administrative Audit is to evaluate the performance of the various departments and give suggestions for further improvement of the quality of teaching, research, administration, and curricular and extracurricular activities.

### 1.2 Methodology:

The College has constituted IQAC and other various committees to conduct and review activities at the departmental level.

The AAA committee interacted and discussed with the Principal, interacted with the IQAC Members, Visited all the departments, Interacted with current year enrolled Students, Visited Library, Sports Facilities, Health Centre, Interacted with Non–Teaching Staff, Checked Documentary evidences and conducted Exit Meeting.

The faculty members presented presentations about the performance of their respective departments and the members of the AAA Committee interacted with them to assess the academic and administrative performance of the departments.

### 1.3 Objectives to conduct Academic and Administrative Audit.

To prepare for AQAR 2019-20.

To understand the Academic and Administrative status of the college for the year 2019-20.

To design and develop effective teaching and learning processes

To evaluate course and program outcomes.

To assure quality education by implementation of co- curricular and extracurricular activities.

To find out Strengths, Weaknesses, Opportunities and Challenges at various levels and to take appropriate measures in those areas.

## 1.4  Vision, Mission, and Objectives.

**Vision**: Our Institute aspires to have a better impact on students through quality education by imparting qualities of confidence and excellence.

## उद्धरेदात्मनात्मानं ( भगवद् गीता अध्याय ६ ओवी ५ वी)

To put it in simple words- one needs to introspect, understand inbuilt qualities, nurture or cultivate those qualities, acquire new knowledge; strive to add on in available knowledge and skills. Thus one can uplift oneself.

**Mission:**

"Our mission is to prepare competent, enthusiastic, imbibed people with the spirit of professionalism and responsible citizenship in a competitive global environment. To this end, management and faculty commit themselves to the pursuit of excellence in education through discovery and dissemination of knowledge, development of technical and social skills and inculcation of values that define professional conduct."

**Objectives:**

• To transform the students into well-meaning citizens.

• To nurture vibrant minds and encourage original thinking in the students and to empower them to face challenges.

• To provide academic excellence and to develop well rounded individuals through various learner centric activities.

• To inculcate in students proactive citizenship and sensitize them to respect one another.

• To provide a safe environment for learning and sharing.

## SECTION C:

Observations:

The overall observations of the AAA committee based on the inputs collected from IQAC and various departments and interaction with the stakeholders are:

1] Apply for funded projects,
2] Organize International Conference/Webinar,
3] Apply for more Live MoU's,
4] Organize skill-development programme,
5] Develop EDC Cell
6] Improve the recognition for overall development of College.

## SECTION D

1.1 The programmes and Add-on Courses offered by the college during the academic year 2019-20.

| Sr. No. | Name of the Programme | Duration |
|---------|----------------------|----------|
| 1 | Career And Personality Development | (20 hours) |
| 2 | Risk and Insurance Management in Share and Stock Market | (30 hours) |
| 3 | Big Data Analytics | (28 hours) |
| 4 | Robotics Process Automation | (30 hours) |
| 5 | Import/Export Management | (30 hours) |
| 6 | Block chain | (24 Hours) |
| 7 | First Aid and Safety Education | (15 Hours) |
| 8 | Women Entrepreneurship | (20 Hours) |
| 9 | Web Designing and PHP | (24 Hours) |
| 10 | Translation and transCultural studies | (30 Hours) |
| 11 | Self Swot Analysis | (20 Hours) |
| 12 | Web Services and Cloud Computing | (24 Hours) |

Number of existing programmes: UG- 5, PG- 3 and Certificate Courses- 2

All programmes are conducted as per the curricula designed and prescribed by the Savitribai Phule Pune University except Certificate courses curriculum. The curricula for certificate courses are designed and developed by the faculty members along with experts from the respective courses.

**1.2** The students' enrolment for the academic year 2019-20. .

| Sr. No. | Categories | Male | Female | Total |
|---------|-----------|------|--------|-------|
| 1 | SC | 103 | 48 | 151 |
| 2 | ST | 7 | 0 | 7 |
| 3 | NT | 53 | 17 | 70 |
| 4 | SBC | 30 | 12 | 42 |
| 5 | OBC | 193 | 98 | 291 |
| 6 | OPEN | 1327 | 631 | 1958 |
| | Total | 1713 | 806 | 2519 |

**1.3 The teaching and non-teaching staff are appointed for the academic year 2019-20.**

| Sr. No. | Designation | Qualification | Male | Female | Total |
|---------|-------------|---------------|------|--------|-------|
| 1 | Professor | Ph.D. | 2 | 3 | 5 |
| 2 | Associate Professor | - | - | - | - |
| 3 | Assistant Professor | PG/NET/SET/MPhil/PhD | 5 | 30 | 35 |
| 5 | Director of Physical Education | M.P.Ed. | 1 | - | 1 |
| 6 | Librarian | MLib | 1 | - | 1 |
| 7 | Office Superintendent | | 1 | - | 1 |
| 8 | Senior Clerk | MCom | 1 | - | 1 |
| 9 | Junior Clerk | BA | 1 | - | 1 |
| 10 | System Admin | MBA(IT) | 1 | - | 1 |
| 11 | Laboratory Assistant | MBA(IT) | 1 | - | 1 |
| 12 | Laboratory Attendant | BE(Elect)PCMA | - | 1 | 1 |
| 13 | Peon | 12th std / Graduation | 3 | 1 | 4 |

**1.4** Number of courses that include experiential learning through project work/field work/internship during the academic year 2019-20.

| Sr.No | Project/Programme Title | Programme Specialization | No.of Students enrolled for Field Projects/Internships |
|---|---|---|---|
| 1 | BBA. BBA(IB) | **HR/MARKETING/FINANCE** - Industrial Visit at 1.Aditya Engg. Pvt.Ltd (Hadapsar) 2.Cottonking Manufacture (Baramati) 3. Krushi Vigyan Kendra, (Baramati.) | 158 |
| 2 | BBA. BBA(IB) | **HR/MARKETING/FINANCE** - Industrial Visit at 1.The GEMS Gallery(Bangkok,Thailand) 2.SIAM Steel Syndicate PLC(Bangkok,Thailand) | 20 |
| 3 | MSc | Computer Science | 59 |
| 4 | B.Com | Cost and Works Accounting | 88 |
| 5 | B.Com | Business Administration | 96 |

## 1.5  FEEDBACK MECHANISM:

i) **Feedback Process:** The College has a mechanism for receiving online structured feedback from the students and different stakeholders on overall Institutional performance. Feedback form is framed and approved by IQAC of this college and is available on the college website. In the year 2020-21 total 1312 feedbacks were received through online mode from the students. Teachers are rated on the scale of 1 to 5 as Poor (1), Average (2), Good (3),Very Good(4) and Outstanding(5).

ii) **Analysis of teaching learning process:** Looking at the analysis of online feedback received from students, 81 percent students say that teachers are punctual. 84 percent students are much satisfied with the teacher's Subject Knowledge and session preparedness. According to students 86 percent teachers are eager to teach. Regarding teaching skills 80 percent students feel that teachers always communicate the concept clearly and 80 percent think that teachers encourage students with different ideas. Above 82 percent students are satisfied with academic support facilities like library, sports, Canteen Food quality, lab, Drinking water availability etc. whereas about 80 to 84 percent students are satisfied with the administration work. Regarding Cleanliness 90-91 percent students are satisfied.. In the case of library facilities and availability of books 84 percent of students are satisfied.

iii) Feedback forms are analyzed by Administrative Staff; they submit a report of analysis to the Principal which is submitted to Management Further. Necessary action is taken By HOD like improvement in facilities; arrangement of lectures and practical's regularly, intimating the concerned teachers etc. This analysis is shared with all the teaching and non teaching staff so everyone should take care of improvement. The college tries to maintain the confidentiality of these responses. Employers, Teachers, Alumni and parents respond using offline mode. The feedback and suggestions received are placed before the Principal as well as management for corrective measures from time to time. In the case of overall quality of education and discipline all the feedback is considered as important.

1.6    Pass percentage of Students of previous completed academic year 2018-19.

| Programme Code | Number of students appeared in the final year examination | Number of students passed in final semester/year examination | Pass Percentage |
|---|---|---|---|
| BBA(IB) | 72 | 72 | 100% |
| BBA(CA) | 70 | 70 | 100% |
| BCom | 84 | 83 | 99% |
| BBA | 77 | 76 | 99% |
| BSc(CS) | 140 | 138 | 99% |
| MSc(CS) | 59 | 59 | 100% |

1.9    The college has set-up a Research Committee to promote research. The Composition of the committee for the year 2019-20

| Sr. No. | Name of the Member | Role on the Committee |
|---|---|---|
| 1 | Dr. Arun R. Patil    Principal. VCACS | Chairman |
| 2 | Dr. Jin Sang Kim KIST South Korea | Member |
| 3 | Dr. D. R. Mane Director of Higher Education, Government of Maharashtra | Member |
| 4 | Dr. Ramesh Malik Associate Professor, UISC Bangalore | Member |

| | | |
|---|---|---|
| 5 | Dr. Wadgaonkar Prakash Scientist 'F' at National Chemical Laboratory(NCL) | Member |
| 6 | Dr. Badigar Manohar Scientist 'F' at National Chemical Laboratory(NCL) | Member |
| 7 | Dr.Shailesh Kasande Director of VIM | Member |
| 8 | Dr. Sudhakar Jadhavar Dean Commerce Faculty, SPPU | Member |
| 9 | Dr. Anant Sardesai Director General of MCCIA | Member |
| 10 | Dr. Prashant Kulkarni DIAT, DRDO Pune | Member |
| 11 | Dr. Ajit N. Phadkule Prof. Department of Chemistry, Sangmeshwar College, Solapur. | Member |
| 12 | Dr. G. S. Rashinkar Prof. Department of Chemistry, Shivaji University, Kolhapur. | Member |
| 13 | Dr. Atul Killedar Manager Chemical Technology at Vishay Components India PVT LTD. | Member |
| 14 | Prof. Sudhir Chitnis HOD, Computer Science, VCACS. | Member |
| 15 | Dr. S. P. Nadgouda Ex-Vice Principal, BMCC, Pune | Member |

**1.10** The faculty members have published books, research papers and papers presented at different level conferences as per following during the academic year 2019-20.

| Sr. No. | Name of the teacher | Name of the book /Research Paper | National/ International |
|---|---|---|---|
| 1 | Asst. Prof. Bhakti Joshirao | Social Ethical and Legal Aspects of Marketing in India | National |
| 2 | Prof. Anjum A. Patel | Analysing classification of cases of Molestation against Women and Mi- nor using clustering techniques approach and presenting security measures for safe future using predictive modeling | International |
| 3 | Asst. Prof. Ruta R. Vaidya | Machine Learning amalgamation of Mathematics, Statistics and Electronics | International |
| 4 | Asst. Prof. Trupti S. Gaikwad | Machine Learning amalgamation of Mathematics, Statistics and Electronics | International |
| 5 | Prof. Sudhir Chitnis | An Approach to analyze and predict highway accident scenarios in india | International |
| 6 | Asst. Prof. Snehal H. Kulkarni | Stress, Its Consequences and way to combat It in Modern Era | National |
| 7 | Asst. Prof. Snehal H. Kulkarni | Machine Learning amalgamation of Mathematics, Statistics and Electronics | International |
| 8 | Asst. Prof. Poonam Chavan | Emerging Trends in Electronics and Computer Science | National |

**1.11** Number of workshops/seminars conducted during the academic year 2019-20

| Sr. No. | Name of the Workshop / Seminar | No. of participants Attended | Date ( from- to) |
|---|---|---|---|
| 1 | Session on Essentials of dealing with Situation | 13 | 17/06/2019 |
| 2 | Session on English Language Enhancement | 14 | 09/07/2019 |
| 3 | Workshop on Investment Banking and Term Insurance for working Professional | 32 | 17/12/2019 |
| 4 | Workshop on Fitness and nutritional therapy | 36 | 07/04/2020 |
| 5 | Seminar on Career Counseling program about CMA | 106 | 22/07/2019 |
| 6 | Seminar on Sales force as a Career Option | 84 | 22/07/2019 |
| 7 | Seminar on career Counseling program about DBF (Diploma in banking and finance) | 118 | 29/07/2019 |
| 8 | Seminar on Choice Based Credit System (CBCS) | 136 | 29/07/2019 |
| 9 | Two Days Workshop on Financial Literacy internship program (FLIP) | 114 | 09/08/2019 |
| 10 | Seminar on Banking awareness program | 109 | 19/08/2019 |
| 11 | 4 days Workshop on Building and maintaining interpersonal Skills | 102 | 20/08/2019 |

| | | | |
|---|---|---|---|
| 12 | 2 Days short term Workshop on Python Programming Language | 112 | 21/08/2019 |
| 13 | Seminar on UPSC and MPSC introductory session | 109 | 26/08/2019 |
| 14 | Seminar on Company Secretary Introductory session | 57 | 30/08/2019 |
| 15 | 3 Days Workshop on Microsoft Certification in Python | 42 | 14/09/2019 |
| 16 | 2 Days Workshop on Excel and Advance Excel -Microsoft Certification | 286 | 19/09/2019 |
| 17 | Seminar on Data Analytics and Data Science | 46 | 27/11/2019 |
| 18 | Seminar on Career Guidance session on competitive exams | 62 | 04/12/2019 |
| 19 | 4 Days Workshop on Cross Platform Mobile App Development - Android work Environment (Microsoft Certification) | 38 | 13/12/2019 |
| 20 | Skill Series workshop on investment banking Capital Market | 47 | 10/01/2020 |
| 21 | Seminar on Career guidance MBA | 162 | 31/01/2020 |
| 22 | 5 Days Workshop on Personality Development soft skill | 154 | 10/01/2020 |
| 23 | Seminar on Career Guidance Government jobs and Banking Exam | 55 | 04/02/2020 |

| 24 | 4 Days Workshop on Hands on Mongodb Database Practical Session | 49 | 05/10/2019 |
| 25 | International Seminar on Opportunities of studying in University of Huddersfield | 85 | 30/01/2020 |
| 25 | Vidyavani Samudayik Radio Kendra, SPPU Visit | 31 | 27/12/2019 |

**1.12    Activities under National Service Scheme/Student Development Office**

The college has 100 Volunteers NSS unit headed by Shri. Hemant Jadhav as a programme Officer. NSS unit has regularly organized activities of social, national and community importance. The details of the NSS unit are given below.

| Sr. No. | Name of Activity | No. Of Participants | Name of Beneficiary |
|---|---|---|---|
| 1 | International Yoga Day | 30 | VCACS Ground, Pune |
| 2 | SPPU Initiative for Guinness World Record | 140 | SPPU, Pune |
| 3 | Tree Plantation Programme | 50 | PDEA's Waghire College, Saswad, Pune |
| 4 | Flood Donation for Sangli and Kolhapur | 45 | VCACS Lobby, Pune |
| 5 | Health Check-up Programme | 732 | VCACS Campus, Pune |
| 6 | River Cleaning Drive | 43 | Warje Bridge and Shaniwar Wada, Pune |
| 7 | National Unity Day | 60 | VCACS Campus, Pune |

| 8 | Awareness on Organ Donation | 105 | VCACS Campus, Pune |
|---|---|---|---|
| 9 | International AIDS Day | 64 | VCACS Campus, Pune |
| 10 | National Voters day | 68 | VCACS Campus, Pune |
| 11 | Blood Donation | 72 | VCACS Campus, Pune |
| 12 | Health Check-up | 647 | VCACS Campus, Pune |
| 13 | Youth Day | 73 | VCACS Campus, Pune |
| 14 | Women's Day | 65 | VCACS Campus, Pune |

1.13 The college has entered Memorandum of Undertaking (MoU) with various institutions for internship, field visit, on- the –job training of the students. The MoUs details are given below.

| Sr. No. | Title of the linkage | Name of the partnering institution/ industry /research lab with contact details | Duration From | Duration To |
|---|---|---|---|---|
| 1 | Knowledge Sharing Linkage | Dnyanprassarak Mandals College and Research Centre | 07-01-19 | 30/06/2020 |
| 2 | Linkage for Sharing Knowledge & Industrial internship | Exenity Sys Pvt Ltd, Pune | 16/03/2020 | 30/06/2020 |
| 3 | Knowledge Sharing Linkage | Mudhoji College, Phaltan | 08-01-19 | 30/06/2021 |
| 4 | Linkage for Sharing Knowledge & Industrial internship | PHN Technology Pvt. Ltd., Pune | 12-01-19 | 30/06/2020 |

| | | | | |
|---|---|---|---|---|
| 5 | Linkage for Sharing Knowledge & Industrial internship | Cravita Technologies India Pvt. Ltd., Pune | 18/12/2019 | 30/06/2020 |
| 6 | Linkage for Sharing Knowledge & Industrial internship | Synnex Softech, Pune | 13/01/2020 | 30/06/2020 |
| 7 | Practical Business Exposure Expert Guidance | ICFAI Business School | 18/09/2017 | |
| 8 | Linkage for Sharing Knowledge | Dr. Babasaheb Ambedkar Marathwada Univarsity Aurangabad | 13/03/2018 | |
| 9 | Business Exposure Expert Guidance | Conga, Software Company, Ahmedabad Gujrat | 03-12-18 | |
| 10 | Knowledge Sharing Linkage | Dr. Mahadeo Kamble, KVN Naik College Nashik | 07-01-17 | |
| 11 | Knowledge Sharing Linkage | Dr. Shubhangi Awate, Annasaheb Magar College Pune | 04-02-18 | |
| 12 | Technical Knowledge Sharing | Sanjay Bhokare Group of Institutes | 07-01-17 | |
| 13 | Knowledge sharing Enriching Education | Padmabhushan Vasanttraodadda Patil Inst of Tech. Budgaon Sangli | 07-01-17 | |
| 14 | Research Facility Sharing Linkage | KIST, South Korea | 07-01-17 | |

| 15 | Linkage for Sharing Knowledge and Expertise | SPEED | 07-01-17 | |
|---|---|---|---|---|
| 16 | Knowledge sharing Enriching Education | Solapur University | 07-01-17 | |

**1.14** **Number of functional MoUs with National and International industries during the year 2019-20**

| Sr. No. | Organisation | Date of MoU signed | Purpose/Activities | Number of students/teachers participated under MoUs |
|---|---|---|---|---|
| 1 | TGC technology Pvt. Ltd. Baner, Pune | 24/07/2019 | To encourage Corporation and Direct contact between Facilities and department Together | 3 |
| 2 | CCA Education Pvt. Ltd. | 31/12/2019 | To encourage Corporation and Direct contact between Facilities and department Together | 363 |
| 3 | The University of Huddersfield, UK | 08-10-2019 | To encourage Corporation and Direct contact between Facilities and departmentTogether | 308 |
| 4 | Yewon Arts University | 08-11-2019 | To encourage Corporation and Direct contact between Facilities and department Together | 22 |

| | | | | |
|---|---|---|---|---|
| 5 | ICFAI Business School | 18/09/2018 | To encourage Corporation and Direct contact between Facilities and department Together | 224 |
| 6 | Joongbu University, South Korea | 18/06/2018 | To encourage Corporation and Direct contact between Facilities and department Together | 3 |
| 7 | CSIR - National Laboratory (CSIR - NCL), Pune | 09-03-2019 | Providing research aid to faculty member and Students | 2 |
| 8 | HDFC Credila | 01-01-2017 | To grant Education Loan to Student | - |
| 9 | SPPU | 15-12-16 | Collaboration in Optoelectronic Sensor and System Research Laboratory in Department5 of Electronic Science | 1 |
| 10 | Defence Institution of Advance Technology | 15/10/2015 | Research Collaboration in areas of Computer Science Technology | 5 |
| 11 | Shivaji University, Kolhapur | 17/11/2015 | Research Collaboration in sharing Knowledge and conduct NET/SET Workshop and Seminar | 28 |
| 12 | National Chemical Laboratory | 17/11/2015 | Research collaboration in Chemical Sciences | 1 |

| | | | | |
|---|---|---|---|---|
| 13 | Solapur University | 20/11/2014 | Research Collaboration in computer Science Department | 1 |
| 14 | CNC Web World, Pune | 20/02/2014 | To provide Learning Experience and Developing in latest Technology | 10 |
| 15 | KIST, South Korea | 08-08-2014 | To encourage Corporation and Direct contact between Facilities and department Together | 7 |
| 16 | Salitron Tech | 16/09/2013 | To develop technical Skills and provide learning and developing latest Software | - |
| 17 | MIT Pune | 11-09-2012 | Research collaboration in Polymer Chemistry | 2 |
| 18 | Vishwakarma Institute of Management | 15/01/2011 | Sharing Resources of Library | 41 |
| 19 | Hiraval Education Trust | 27/08/2010 | Sharing of Expert Knowledge | 5 |
| 20 | Indian Institute of Tropical Meteorology | 12-02-2004 | Research in solar energy and conversation system | 1 |

## 1.15 Physical Facilities/Infrastructure Facilities:

The policy of the college is to create and maintain state of art infrastructure to facilitate effective teaching learning. As a part of this the college has been enhancing its infrastructure on a continuous basis by modernizing classrooms with ICT enabled facilities. The following facilities are available in the college.

| Sr. No. | Particulars | Quantities |
|---|---|---|
| 1. | Classrooms | 24 |
| 2. | Computer Laboratories | 9 |
| 3 | Smart class rooms | 2 |
| 4 | Commerce Laboratory | 1 |
| 5 | Principal's chamber | 1 |
| 6 | Office room | 2 |
| 7. | IQAC room | 1 |
| 8 | Chairman chamber | 1 |
| 9 | Examination strong room | 2 |
| 10 | Faculty room | 3 |
| 11 | Administrative block | 1 |
| 12 | Ladies common room | 1 |
| 13 | Gents Common Room | 1 |
| 14 | Conference Hall | 2 |
| 15 | Placement Cell | 1 |
| 16 | Computers | 395 |
| 17 | Printers | 38 |

| Sr. No. | | Count |
|---|---|---|
| 18. | Laptops | |
| 19 | Digital Smart boards | 11 |
| 20 | NSS office | 0 |
| 21 | Students' Development office | 1 |
| 22 | UPS Facility | 1 |
| 23 | Internet | 1 |
| 24 | Xerox machine | 1 |
| 25 | Portable Water Facility | 2 |
| 26 | Parking space | 3 |
| | | 10000 sq ft |

1.16 The college has set-up a Library Advisory Committee to procure books as per the prescribed curriculum. The composition of the committee for the year 2019-20 is as given below.

| Sr. No. | Name of the teacher | Designation | Position of the Committee |
|---|---|---|---|
| 1 | Dr. Arun Patil | Principal | Chairperson |
| 2 | Mr. Suresh Sase | Office Suprtendent | Member |
| 3 | Prof. Sudhir Chitnis | HOD (Science Department) | Member |
| 4 | Dr. Sheetal Mantri | HOD (Comm. Department) | Member |
| 5 | Mr. Sandip Bhosale | Librarian | Member |
| 6 | Prof. Anjum Patel | IQAC Coordinator | Member |
| 7 | Prof. Vaishali Kale | Co-Ordinator | Member |
| 8 | Prof. Poonam Chavan | Asst. Professor | Member |
| 9 | Mr. Sunil Bhatt | CA | Member |

**1.17**   Annual expenditure incurred on purchases of books and journals for the academic year 2019-20 is as given below.

| Expenditure on purchase of Text Books | Expenditure on purchase of Reference Books | Expenditure on purchase of Journals | Budget allocated | Expenditure on subscription to e-journals and other e-resources |
|---|---|---|---|---|
| 705,987 | 91122 | 64900 | 250000 | 68700 |

**1.18**   Average usage of library per day by the students and teachers during the year 2019-20

| Method of computing per day usage of library | No of students accessing library per day | No of teachers accessing library per day |
|---|---|---|
| Issuing and reading books | 30 | 14 |

**1.19**   No. of computers, computers with access to internet, bandwidth of leased line connection and LAN configuration and speed available in the college for 2019-20.

| No. of Computers | No. of Computers with access to internet | Bandwidth of leased line connection | LAN configuration and speed |
|---|---|---|---|
| 395 | 395 | 15Mbps | 1Gbps |

**1.20**   Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during 2019-20.

| Assigned budget on academic support facilities excluding salary | Expenditure on academic support facilities excluding salary | Assigned budget on physical facilities excluding salary | Expenditure on physical facilities excluding salary |
|---|---|---|---|
| 35000000 | 38551057.56 | 2200000 | 2114065.6 |

**1.21** No. of students benefited scholarships and freeships provided by the Government and the college for the year 2019-20.

| No. of students benefited by Government scheme | Total Amount | No. of students benefited by Non-Government scheme | Total Amount |
|---|---|---|---|
| 6 (Government of India Scholarship) | 134473 | 61 (Merit and EWS) | 427600 |
| 31 (ICCR) | 1134000 | - | - |

**1.22** No. of Skill enhancement and development schemes organized for the year 2019-20.

| Sr. No. | Name of the Scheme | No. of students participated |
|---|---|---|
| 1 | Guidance for Competitive Examinations | 55 |
| 2 | Career Counselling and Personal Counselling | 106 |
| 3 | Soft Skill Development | 102 |
| 4 | Remedial Coaching | 40 |
| 5 | Language Coaching | 60 |
| 6 | Bridge Courses | 114 |
| 7 | Yoga and meditation | 30 |

**1.23** The college has a transparent mechanism for timely redressel of students' grievances including sexual harassment and ragging cases. The details about this mechanism are given below.

| No. of Meetings Held | No. of Grievances Appeared | No. of Grievances Redressed | Average Time for Settlement of Grievance Redressal |
|---|---|---|---|
| NIL | NIL | NIL | NIL |

**1.24** The college has an active placement Cell, its details for the year 2019-20 is as given below.

| Sr. No. | No. of Students Placed | Name of the Employer | Average Package Received | Highest Package Received | Program graduated From |
|---|---|---|---|---|---|
| 1 | 49 | L&T, Infosys, TCS, Cognizant, Syntel, Telegram Services, Konocrane services, Vodafone | 2.3 L (on Campus) | 5.5 L (on Campus) | UG and PG |
| 2 | 31 | SB IT services, BMC software, Enpro Industries Pvt. Ltd .Konocrane services | 2.3 L (off Campus) | 4.78 L (off Campus) | UG and PG |

**1.25** The students of the college have joined Higher Education after their graduation, (2018-19 Batch) its details are given below.

| No. of Students Enrolling in to Higher Education | Program Graduated From | Name of Program Admitted to |
|---|---|---|
| 3 | B.Com. | CA, CS ,ICWA |
| 1 | B.Com. | Law |
| 4 | B.Com | MCom |
| 15 | BBA, BBA(IB) | MBA |
| 50 | B.Sc(CS) | M.Sc.(CS) |
| 12 | B.Sc(CS) | M.Sc.(CA) |

**1.26** The college has a vibrant and Registered Alumni Association, its details are as given below.

| Name of the Alumni Association | Year of Establishment | No. of Meetings Held in 2019-20 | Dates of Meetings | No. of Alumni attended | Total no. of Alumni enrolled | Quantum of Contribution |
|---|---|---|---|---|---|---|
| VCACSAA - Vishwakarma College of Arts, Commerce And Science - Alumni Association | 13-01-2017 | 1 | 30/1/2020 | 24 | 25 | 15000 |

**1.27** The college has implemented e-governance policy in the following areas during the year 2019-20.

| Sr. No. | Areas of E-Governance | Name of the Vendor with Contact Details | Year of Implementation |
|---|---|---|---|
| 1 | Planning and Development | Biomatric machine-COMPAX INDUSTRIAL SYSTEM PVT.LTD,PUNE 020-46769389 Website-SHREE TECH SOFT,PUNE | 2011 |
| 2 | Administration | Vriddhi Software Solutions Pvt. Ltd., | 2014 |
| | | Algorhythms Consultants Pvt. Ltd. SLIM - 02025281066 | 2014 |
| 3 | Finance and accounts | Tally ERP 9 | 2015 |
| | | HDFC Bank | 2018 |
| 4 | Examination | SPPU, Vriddhi -VRIDDHI SOFTWARE SOLUTIONS PVT.LTD. 9423027920 | 2016 |
| 5 | Student Admission and Support | Vriddhi Software Solutions Pvt. Ltd. Vishwakarma Global Education Service Pvt. Ltd. VOLP, EduPlus | 2019 |

1.28    The college has established IQAC Cell as per the guideline laid-down by NAAC and undertakes quality initiatives every year for promoting quality culture in the college. During the academic year 2019-20 following activities were organized by the IQAC. (Meeting details of IQAC)

| Sr. No. | Name of Quality Initiative by IQAC | Date of Conducting Activity | Duration ( from to ) | No. of participants |
|---|---|---|---|---|
| 1 | Regular Meeting of IQAC | 10/6/2019, 11/11/2019, 11/3/2020 | Each meeting 1 Day | 13 |
| 2 | ISO Certification | 20/2/2020 Internal Audit | 1 Day | 5 |

1.29    The college organizes gender equity promotion programs every year. The overall objective of the gender equality program is a society in which women and men enjoy the same opportunities, rights and obligations in all spheres of life.  The details of the activities organized in the year 2019-20.

| Sr. No. | Name of the Activity | Date and Duration ( from-to ) of the Activity | No. of Female Participants | No. of male Participants |
|---|---|---|---|---|
| 1 | Street Play-Gender Equality Activity | 30/01/2020 | 15 | 5 |
| 2 | Self-Defense Workshop for girls | 09/03/2020 | 135 | 65 |

1.30    The following resources are available in the college for differently abled students.

| Physical Facilities (yes/ no) | Ramp/ rails (yes/no) | Braille software/ facilities (yes/ no) | Rest rooms (yes/ no) | Scribes for examinatio n ( yes/ no) | Special Skill Developmen t for them (yes/ no) | Any other similar facility(yes/no ) |
|---|---|---|---|---|---|---|
| Yes | Yes | No | Yes | No | No | No |

**1.31** The college has provided the facilities for the management of the following types of degradable and non-degradable waste.

| Sr. No. | Type of Facility | Detail of the Facility |
|---|---|---|
| 1 | Solid waste management | Solid waste management facility: available |
| 2 | Liquid waste management | Wastewater management : Available<br>Water harvesting :- Available |
| 3 | E-waste management | E-Waste such as CDs, electronic components etc. are placed in E -Waste Disposal Cabinet located in the store room and disposed periodically along with other waste. Monitors, Key boards, CPUs, Printers etc., which are not in use are segregated and scrap given to the authorized agency (Sayma E-Waste Solutions, Address- S No.323,Plot no B/27,Mouje Uruli Devachi,Tal-Haveli, Dist-Pune (Registration No.BO/RO(HQ)/HW/E-Waste Collection Center2015/K/B-4584 |

**1.31** The college has made and maintained following facilities in the year 2019-20.

| Sr. No. | Name of the facility | Yes/ No |
|---|---|---|
| 1 | Rain water harvesting | Yes |
| 2 | Bore well facility | Yes |
| 3 | Underground Tanks | Yes |
| 4 | Waste Water Recycle | Yes |
| 5 | Maintenance of water bodies and distribution system | Yes |

**1.32** The college initiatives for greening the campus are as follows

| Sr. No. | Name of the Activity | Yes / No. |
|---|---|---|
| 1 | Restricted entry of automobiles | Yes |
| 2 | Use of Bicycles/ | Yes |
| 3 | Pedestrian Friendly pathways | Yes |
| 4 | Ban on use of Plastic | Yes |
| 5 | landscaping with trees and plants | Yes |

**1.33** The college undertakes quality audits on environment and energy on a regular basis as per the following.

| Sr. No. | Type of Quality Audit | Particulars |
|---|---|---|
| 1 | Green audit and Environment audit | we conduct Green Audit through approved agency (GREENSOLUTIONS PROVIDER MEDA Regn.No.:MEDA/ECN/CR-01/2014-15/EA-29) |
| 2 | Energy audit | Done with installing low watt LED and CFL in place of 40W Tube light and 75 W LED fixture in place of 150 W street light. |
| 3 | Beyond the campus environmental promotional activities | we provide awareness through NSS activity |

The college has a prescribed code of conduct for students, teaching and non-teaching and other staff and conducts periodic programmes in this regard.

The Code of Conduct governed by the university is adopted and displayed on the website.

The committee is constituted to monitor adherence to the Code of Conduct. The college organizes professional ethics programmes for students, teaching and non-teaching staff and other staff before the commencement of academic session and annual awareness programme on Code of Conduct are organized at the conclusion of the academic year.

The details are given below.

| Sr. No. | Particulars | Duration (from to ) |
|---------|-------------|---------------------|
| 1 | Organisation professional ethics programmes for students, teaching and non-teaching staff and other staff | 2019-2020 |
| 2 | Organisation of annual awareness programme on Code of Conduct | 2019-2020 |

1.34    The college celebrates / organizes national and international commemorative days, events and festivals as per the following details.

| Sr. No. | festivals and birth/death anniversaries | Date | Activity | Participants |
|---------|------------------------------------------|------|----------|--------------|
| 1 | Independence Day | 15th August | Flag hosting | 25 |
| 2 | Republic Day | 26th January | Flag hosting | 35 |
| 3 | Maharashtra foundation Day | 1st May | Flag hosting | 15 |
| 4 | NSS day | 24 Sept | Workshop | 4 |
| 5 | Birth Anniversary of Savitri bai Phule. | 02 Jan | Essay Writing competition | 55 |

**1.35** The college implements best practices as per the NAAC format provided in the Manual. During the academic year 2019-20 under mentioned best practices were conducted by the college.

| Sr. No. | Name of the Best practice | Venue | No. of participants | Objectives of the Best practice |
|---|---|---|---|---|
| 1 | River Cleaning Drive – On the occasion of 150th Birth anniversary of Mahatma Gandhi, Vishwakarma College of arts, commerce and science, Pune arranged River Cleanliness Drive on 2nd October 2019 | clean the rivers (Mula and Mutha) at Warje Bridge and Shaniwarwada, Pune | 43 | To aware students about social activities and services • To aware students about an importance of River cleanliness in our life • To maintain minimum ecological flows in the river with the aim of ensuring water quality and environmentally sustainable development. |
| 2 | "Awareness programme on Organ Donation" | Vishwakarma College of arts, commerce and science, Pune has conducted Workshop on "Awareness programme on Organ Donation" on 9th January 2020. | 105 | To aware students about importance of organ donation in life Details This activity helps students to realize the importance of organ donation in life and society |

## 1.36 Future Plans of Institute

We are providing updated technology with high quality education at different levels, inculcation of creative and innovative thinking among students to fit within the global competitive world. In the coming years, the institute aims to become autonomous and looking to the needs of industry we have planned to develop and design new courses which trends to increase global employability.

Future Plans:

1. To provide certificate programmes for students.
2. To collaborate with various industries for interdisciplinary courses.
3. To conduct more expert lectures for students for better exposure.
4. To conduct practical based activities.
5. To collaborate with various industries for add-on courses.

# Academic Calendar

## BRACT's
## Vishwakarma College of Arts Commerce and Science , Pune
## Institutional Academic Calendar (UG & PG)
### Academic Year: 2017-18 Term/Semester: I

| Month | June -17 | | July - 17 | | Aug - 17 | | Sept - 17 | | Oct - 17 | |
| Date | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Admission Process Continued for Sr. College | | Saturday | | al distributic | | Defulter List display - PG | | Sunday | |
| 2 | | | Sunday | | Quiz Competition- UG | | Saturday | | Gandhi Jayanti | |
| 3 | Saturday | | Session plan submission from Teaching Staff | | B.com,BSc-Exam form submission | | Sunday | | SPPU External Exam - U.G. | |
| 4 | Sunday | | | | P.G Activity | | MSC (CS) SPPU Exam Form Submission | | SPPU Internal examination - B.Sc.First Year | |
| 5 | | | SWO- Earn and Learn scheme Registration | | Saturday | | Activity PG | | | |
| 6 | | | | | Sunday | | | | | |
| 7 | | | | | Principal adddress to | | Workshop | | Saturday | |
| 8 | | | Saturday | | Guest Lecture UG | | | | Sunday | |
| 9 | | | Sunday | | | | | | | |
| 10 | Saturday | | Principal adddress to Teaching staff | | Guest lecture - UG Science | | Sunday | | | |
| 11 | Sunday | | | | Guest lecture - UG | | Guest lecture - UG Science | | | |
| 12 | | | Journal distribution- UG | | Saturday | | Guest lecture - UG Commerce | | | |
| 13 | | | | | Sunday | | | | | |
| 14 | | | | | | | | | Saturday | |
| 15 | First Term commenc ement - UG | | Saturday | | Independen ce Day | | | | Sunday | |

| Month | June -17 | | July - 17 | | Aug - 17 | | Sept - 17 | | Oct - 17 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status |
| 16 | | | Sunday | | | | Saturday | | | |
| 17 | Saturday | | | | Pateti | | Sunday | | | |
| 18 | Sunday | | | | Health check up-FY students | | | | | |
| 19 | | | Class Unit test I -UG | | Saturday | | SY/TY Practical /Oral | | Laximi Pujan | |
| 20 | | | | | Sunday | | | | Padawa | |
| 21 | | | | | BBA(IB), BBA(CA),BBA- SPPU exam form | | | | Bhaubij | |
| 22 | | | Saturday | | | | | | Sunday | |
| 23 | | | Sunday | | | | Saturday | | SPPU Internal exam - PG | |
| 24 | Saturday | | Class Unit test I -UG | | | | Sunday | | | |
| 25 | Sunday | | Guest Lecture - UG Commerce | | Ganesh Chathurti | | | | SPPU Term End exam - B.Com. | |
| 26 | | | Workshop on Java Framework for UG & PG | | Saturday | | SY/TY Practical /Oral | | | |
| 27 | | | | | Sunday | | | | | |
| 28 | | | Guest Lecture - UG Commerce | | Guest :Lecture PG | | | | Saturday | |
| 29 | | | Saturday | | Defaulter List August display and Call to parents | | Guest Lectures under Special Guidance Scheme | | Sunday | |
| 30 | | | Sunday | | BSC(CS),BBA(CA) Apti Activity | | BSC(CS),BBA(CA) Apti Activity | | | |
| 31 | | | Defaulter list of July month display and Call to parents | | Saturday | | Saturday | | SPPU External Exam - B.C.A. and B.B.A. | |

Note:
1. Every Friday Session plan complinace to be checked by respective HODs
2. Submisssion of MIS on 5th of every month.
3. Class Test Results to be entered in MIS.
4. Practical Exam as per SPPU Guidelines

HOD
Commerce

HOD
Science

Principal

# BRACT's
## Vishwakarma College of Arts Commerce and Science , Pune
### Institutional Academic Calendar (UG & PG)
#### Academic Year: 2017-18 Term/Semester: II

| Date | Nove -17 Planned Activity | Implementation Status | Dece - 17 Planned Activity | Implementation Status | Jan - 18 Planned Activity | Implementation Status | Feb - 18 Planned Activity | Implementation Status | March- 18 Planned Activity | Implementation Status | April-18 Planned Activity | Implementation Status |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | Eid-e-Milad | | | | Cultural week | | | | Sunday | |
| 2 | M.Sc (CS)- Project submission | | Saturday | | | | | | Dhulivandan | | | |
| 3 | | | Sunday | | BBA- Industrial tour | | Saturday | | Saturday | | SPPU Internal exam - PG | |
| 4 | Saturday | | Guest lecture - UG Commerce | | | | Sunday | | Sunday | | | |
| 5 | Sunday | | Guest lecture -UG Science | | | | | | | | | |
| 6 | | | | | Saturday | | Cultural week | | | | | |
| 7 | M.Sc (CS)- Project submission | | | | Sunday | | | | | | Saturday | |
| 8 | | | | | | | | | | | Sunday | |
| 9 | | | Saturday | | | | | | | | | |
| 10 | | | Sunday | | | | Saturday | | Saturday | | | |
| 11 | Saturday | | | | | | Sunday | | Sunday | | SPPU Internal exam - PG | |
| 12 | Sunday | | | | State/National Level workshop - Commerce / Science | | | | | | | |
| 13 | Second Term commencement -UG | | Class Unit test III - UG | | | | Cultural week | | SPPU External exam - UG | | Saturday | |
| 14 | | | | | Sunday | | | | | | | |
| 15 | SPPU External Exam - M.Sc.CS | | | | | | | | | | Sunday | |

| Month / Date | Nov-17 Planned Activity | Implementation Status | Dec-17 Planned Activity | Implementation Status | Jan-18 Planned Activity | Implementation Status | Feb-18 Planned Activity | Implementation Status | March-18 Planned Activity | Implementation Status | April-18 Planned Activity | Implementation Status |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | | | Saturday | | Submission - IT Training Offer Lettters for PG students | | EVS External SPPU exam | | | | SPPU Internal exam - PG | |
| 17 | | | Sunday | | | | | | Saturday | | | |
| 18 | Saturday | | | | | | Saturday | | Sunday | | | |
| 19 | Sunday | | | | | | Sunday | | | | | |
| 20 | | | Class Unit test III - UG | | Saturday | | | | | | | |
| 21 | M.C.A. Commerce - Project submission | | | | Sunday | | EVS External SPPU exam | | Practical examination- UG | | Saturday | |
| 22 | | | | | | | | | | | Sunday | |
| 23 | | | Saturday | | Class Unit test IV - UG | | | | | | | |
| 24 | | | Sunday | | | | Saturday | | Saturday | | SPPU Internal exam - PG | |
| 25 | Saturday | | Christmas | | | | Sunday | | Sunday | | | |
| 26 | Sunday | | | | Independence day | | SPPU Internal exam - UG | | Practical examination- UG | | | |
| 27 | SPPU External Exam - M.C.A.Com | | Defulter List display - UG | | Saturday | | | | | | | |
| 28 | | | | | Sunday | | | | | | Saturday | |
| 29 | National/State Level Workshop - CS/Commer | | | | Class Unit test IV - UG | | | | Mahavir Jayanti | | Sunday | |
| 30 | | | Saturday | | Activity -PG | | | | | | | |
| 31 | | | Sunday | | Defulter List display - UG and PG | | | | Saturday | | | |

Note:
1. Every Friday Session plan complinace to be checked by respective HODs
2. Submisssion of MIS on 5th of every month.
3. Class Test Results to be entered in MIS.
4. Practical Exam as per SPPU Guidelines

HOD
Commerce

HOD
Science

Principal

# BRACT's
## Vishwakarma College of Arts Commerce and Science, Pune
### Institutional Academic Calendar (UG & PG)
#### Academic Year: 2018-19 Term/Semester: I

| Month | June -18 | | July - 18 | | Aug - 18 | | Sept - 18 | | Oct - 18 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status |
| 1 | | | Sunday | | Journal distribution- PG | | Saturday | | | |
| 2 | Admission Process Continued for Sr | | | | B.com,BSc- Exam form submission | | Sunday | | Gandhi Jayanti | |
| 3 | Sunday | | Session plan submission from Teaching Staff | | P.G Activity | | Defulter List display - PG | | SPPU External Exam - U.G. | |
| 4 | | | | | Saturday | | MSC (CS) SPPU Exam Form Submission | | | |
| 5 | | | | | Sunday | | Activity PG | | | |
| 6 | | | SWO- Earn and Learn scheme Registration | | Guest Lecture UG Science & UG Commerce | | Inter Departmental/Inter Faculty Programme | | Saturday | |
| 7 | | | Saturday | | | | | | Sunday | |
| 8 | | | Sunday | | | | Saturday | | | |
| 9 | | | | | | | Sunday | | | |
| 10 | Sunday | | Principal adddress to Teaching staff | | | | | | | |
| 11 | | | Journal distribution- UG | | Principal adddress to FY students | | Guest lecture - UG Science | | | |
| 12 | | | Guest Lecture - UG Commerce | | Sunday | | Guest lecture - UG Commerce | | | |
| 13 | | | BSC(CS),BBA (CA) Apti Activity | | | | | | Saturday | |
| 14 | | | Saturday | | Health check up-FY students | | | | Sunday | |
| 15 | First Term commencement - UG | | Sunday | | Independence Day | | Saturday | | SPPU Internal examination - B.Sc.First Year | |

| Month | June -18 | | July - 18 | | Aug - 18 | | Sept - 18 | | Oct - 18 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status |
| 16 | Saturday | | Sunday | | | | Sunday | | | |
| 17 | Sunday | | | | | | | | | |
| 18 | | | Class Unit test 1 -UG | | Saturday | | | | SPPU Term End exam - B.Com. | |
| 19 | | | | | Sunday | | SY/TY Practical /Oral | | | |
| 20 | | | Guest Lecture - UG Commerce | | | | | | Saturday | |
| 21 | | | | | BBA(IB), BBA(CA),BBA- SPPU | | | | Sunday | |
| 22 | | | Saturday | | | | Saturday | | | |
| 23 | Saturday | | Sunday | | | | Sunday | | SPPU Internal exam - PG | |
| 24 | Sunday | | | | BSC(CS),BBA(CA) Apti Activity | | SY/TY Practical /Oral | | | |
| 25 | | | | | | | | | SPPU Term End exam - B.Com. | |
| 26 | | | GroupDiscussion,Seminar,Subject related | | | | SPPU Internal exam - UG | | | |
| 27 | | | | | Guest :Lecture PG | | | | Saturday | |
| 28 | | | Workshop on Java Framework for UG & PG | | | | Guest Lectures under Special Guidance scheme | | Sunday | |
| 29 | | | | | | | Saturday | | | |
| 30 | | | | | | | Sunday | | | |
| 31 | | | Defaulter list of July month display and Call to parents | | Defaulter List August display and Call to parents | | | | M.Sc.(CS)-Project submission | |

Note:
1. Every Friday Session plan complinace to be checked by respective HODs
2. Submisssion of MIS on 5th of every month.
3. Class Test Results to be entered in MIS.
4. Practical Exam as per SPPU Guidelines

HOD
Commerce

HOD
Science

Principal

**BRACT's**
**Vishwakarma College of Arts Commerce and Science , Pune**
**Institutional Academic Calendar (UG & PG)**
**Academic Year: 2018-19 Term/Semester: II**

| Month / Date | Nove -18 Planned Activity | Implementation Status | Dece - 18 Planned Activity | Implementation Status | Jan - 19 Planned Activity | Implementation Status | Feb - 19 Planned Activity | Implementation Status | March- 19 Planned Activity | Implementation Status | April-19 Planned Activity | Implementation Status |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | Saturday | | | | Cultural week | | | | SPPU Internal exam - PG | |
| 2 | | | Sunday | | | | | | Saturday | | | |
| 3 | Saturday | | | | BBA-Industrial tour | | Sunday | | Sunday | | | |
| 4 | Sunday | | Guest lecture -UG Commerce | | | | | | | | | |
| 5 | | | Guest lecture - UG | | Saturday | | Cultural week | | | | | |
| 6 | | | | | Sunday | | | | | | Saturday | |
| 7 | | | | | | | | | | | Sunday | |
| 8 | | | Saturday | | | | | | | | | |
| 9 | | | Sunday | | | | Saturday | | Saturday | | | |
| 10 | Saturday | | Inter Departmental/Inter Faculty Programme | | | | Sunday | | Sunday | | SPPU Internal exam - PG | |
| 11 | Sunday | | Student's Research Paper Submission | | | | | | | | | |
| 12 | | | Soft Skill Programme & Value Education | | | | | | | | | |
| 13 | SPPU External Exam - | | | | | | Cultural week | | | | Saturday | |
| 14 | | | | | Sunday | | Cultural week | | | | Sunday | |
| 15 | National Level Workshop - Comp. Sci | | Saturday | | State/National Level workshop - Commerce/ Science | | | | | | | |

| Month / Date | Nov -18 Planned Activity | Implementation Status | Dec - 18 Planned Activity | Implementation Status | Jan - 19 Planned Activity | Implementation Status | Feb - 19 Planned Activity | Implementation Status | March- 19 Planned Activity | Implementation Status | April-19 Planned Activity | Implementation Status |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | | | Sunday | | | | Saturday | | | | | |
| 17 | Saturday | | Environment Proctection related activity | | Submission - IT Training Offer Letters for PG students | | Sunday | | Saturday | | SPPU External exam - PG | |
| 18 | Sunday | | | | | | EVS External SPPU | | Sunday | | | |
| 19 | | | Class Unit test III - UG | | Saturday | | | | | | | |
| 20 | Environment Proctection related activity | | | | Sunday | | EVS External SPPU exam | | SPPU External exam - UG | | Saturday | |
| 21 | | | | | | | | | | | Sunday | |
| 22 | | | Saturday | | | | | | | | | |
| 23 | | | Sunday | | | | Saturday | | | | | |
| 24 | Saturday | | | | | | Sunday | | Sunday | | | |
| 25 | Sunday | | Christmas | | Class Unit test IV | | | | | | | |
| 26 | Cyber Crime Awareness | | | | Independence day | | SPPU Internal exam - UG | | | | | |
| 27 | Case Study Implementatio | | Community/Social | | Sunday | | | | Practical examination- UG | | Saturday | |
| 28 | Parents Teacher Meeting | | Defulter List display | | Quiz Competition | | | | | | Sunday | |
| 29 | Second Term commencement -UG | | Saturday | | Class Unit test IV - UG | | | | | | | |
| 30 | | | Sunday | | Activity -PG | | | | Saturday | | | |
| 31 | | | | | Defulter List display - UG and PG | | | | Sunday | | | |

Note:
1. Every Friday Session plan complinace to be checked by respective HODs
2. Submisssion of MIS on 5th of every month.
3. Class Test Results to be entered in MIS.
4. Practical Exam as per SPPU Guidelines

HOD
Commerce

HOD
Science

Principal

Principal

# BRACT's
## Vishwakarma College of Arts Commerce and Science, Pune
### Institutional Academic Calendar (UG & PG)
#### Academic Year: 2019-20 Term/Semester: I

| Month | June -19 | | July - 19 | | Aug - 19 | | Sept - 19 | | Oct - 19 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status |
| 1 | Admission Process Continued for Sr. College | | Practical Session Commencement UG / NSS & SDO Earn & Learn Scheme Registration | | | | Sunday | | Term End Exam B.Com (SY/ TY) | |
| 2 | Sunday | | Session Plan Preparation | | Apti Activity | | Ganesh Chaturthi | | Gandhi Jayanti | |
| 3 | | | | | Principal's Address to FY | | | | | |
| 4 | | | Guest Lecture UG | | Sunday | | MSC (CS) SPPU Exam Form Submission | | | |
| 5 | Ramzan Id | | Apti Activity | | Activity PG | | Activity PG | | Saturday | |
| 6 | | | Saturday | | | | | | Sunday | |
| 7 | | | Sunday | | | | Saturday | | Slow Learner & Fast Learner | |
| 8 | Saturday | | Session Plan Submission | | Guest Lecture UG | | Sunday | | Dasara | |
| 9 | Sunday | | | | Apti Activity / Journal Distribution PG | | Guest Lecture UG | | | |
| 10 | Time Table Preparation | | | | Saturday | | Moharam | | SPPU External Exam UG | |
| 11 | | | Journal Distribution UG | | Sunday | | | | | |
| 12 | Time Table Display | | Apti Activity | | Bakri ID | | Anant Chaturdashi | | Saturday | |
| 13 | Workload Distribution | | Saturday | | BBA (IB), BBA (CA), BBA SPPU Exam Form Submission Start Date | | | | Sunday | |
| 14 | | | Sunday | | Health Check-up FY Students | | Saturday | | | |
| 15 | Saturday | | | | Independence Day | | Sunday | | SPPU Internal Exam PG | |

| Month | June -19 | | July - 19 | | Aug - 19 | | Sept - 19 | | Oct - 19 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status |
| 16 | Sunday | | Guest Lecture UG | | Apti Activity | | | | | |
| 17 | First Term Commencement UG | | Principal's Address to Staff | | Saturday | | | | | |
| 18 | | | | | Sunday | | | | | |
| 19 | | | Apti Activity | | | | Guest Lecture PG | | Saturday | |
| 20 | | | Saturday | | | | | | Sunday | |
| 21 | Yoga Day Journal Ditribution UG | | Sunday | | | | Saturday | | | |
| 22 | Saturday | | Guest Lecture UG | | | | Sunday | | | |
| 23 | Sunday | | | | Apti Activity | | | | | |
| 24 | Practical Commencement UG B.Com & BSC SPPU Exam Form Submission | | Class Test UG | | Saturday | | SPPU Internal Exam UG | | | |
| 25 | | | | | Sunday | | | | Dhantrayodashi | |
| 26 | | | Apti Activity | | | | | | Saturday | |
| 27 | | | Saturday | | Guest :Lecture PG | | | | Sunday | |
| 28 | | | Sunday | | | | Saturday | | Diwali | |
| 29 | Saturday | | | | | | Sunday | | Bhaubeej | |
| 30 | Sunday | | | | Apti Activity | | | | | |
| 31 | | | Class Test Result | | Saturday | | | | | |

Note:
1. Every Friday Session plan complinace to be checked by respective HODs
2. Submisssion of MIS on 5th of every month.
3. Class Test Results to be entered in MIS.
4. Practical Exam as per SPPU Guidelines

HOD
Commerce

HOD
Science

Principal

## BRACT's
## Vishwakarma College of Arts Commerce and Science , Pune
### Institutional Academic Calendar (UG & PG)
### Academic Year: 2019-20 Term/Semester: II

| Month | November -19 | | December - 19 | | January - 20 | | February - 20 | | March - 20 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status |
| 1 | | | SUNDAY | | | | | | SUNDAY | |
| 2 | | | | | | | SUNDAY | | | |
| 3 | SUNDAY | | | | Industrial Visit | | | | | |
| 4 | | | | | | | Viva in Practical | | | |
| 5 | | | | | SUNDAY | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | Workload Distribution | | SUNDAY | | | | | | SUNDAY | |
| 9 | | | | | Guest Lecture - UG | | SUNDAY | | | |
| 10 | SUNDAY | | | | Second Semester Commencement - PG | | Guest Lecture - PG | | | |
| 11 | Time Table Preparation | | | | | | | | HOLI | |
| 12 | Time Table Display | | Guest Lecture - UG | | SUNDAY | | | | SPPU External Exam UG | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | EVS External SPPU exam | | | |
| 15 | | | SUNDAY | | | | | | SUNDAY | |
| 16 | | | Second Term Commencement PG | | | | SUNDAY | | | |
| 17 | SUNDAY | | | | Guest Lecture - PG | | Guest Lecture - UG | | | |
| 18 | | | | | | | | | | |
| 19 | Second Term/ Semester Commencement UG | | | | SUNDAY | | Chhatrapati Shivaji Maharaj Jayanti | | | |
| 20 | Practical Session Commencement UG | | Guest Lecture - PG | | Cultural Week | | | | | |
| 21 | | | | | | | MAHASHIVRATRI | | | |
| 22 | | | SUNDAY | | | | | | SUNDAY | |
| 23 | | | | | | | SUNDAY | | | |

| Month | November -19 | | December - 19 | | January - 20 | | February - 20 | | March - 20 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date ↓ | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status |
| 24 | SUNDAY | | | | | | Internal Exam UG | | | |
| 25 | | | Christmas | | | | Activity PG | | | |
| 26 | | | Home Assignment UG | | Republic Day / SUNDAY | | | | | |
| 27 | | | | | Activity PG | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | SUNDAY | | | | | | SUNDAY | |
| 30 | | | | | | | | | | |
| 31 | | | | | | | | | Inetrnal Exam PG | |

Note:
1. Every Friday Session plan complinace to be checked by respective HODs
2. Submisssion of MIS on 7th of every month.
3. Practical Exam as per SPPU Guidelines

HOD
Commerce

HOD
Science

Principal

Bansilal Ramnath Agarwal Charitable Trust's
**Vishwakarma College of Arts, Commerce and Science, Pune.**
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

FF52

## Academic Calendar (A.Y. 2020-2021)

| Month | June | | July | | Aug | | Sept | | Oct | | Nov | | Dec | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status |
| | | | | | Bakri ID | | | | | | | | Term End Exam B Com (TY) | |
| 1 | Admission Process Continued for Sr College | | NSS & SDO Earn & Learn Scheme Registration | | Saturday | | Anant Chaturdashi | | | | Sunday | | | |
| 2 | | | Session Plan Preparation | | Sunday | | | | Gandhi Jayanti | | | | | |
| 3 | | | | | Rakshabandhan | | | | Saturday | | | | | |
| 4 | | | Saturday | | | | | | Sunday | | | | | |
| 5 | | | Sunday | | | | Saturday | | | | | | Saturday | |
| 6 | Saturday | | | | | | Sunday | | Principals Address to FY | | | | Sunday | |
| 7 | Sunday | | | | | | FY lecture Commencement | | | | Saturday | | | |
| 8 | | | | | Saturday | | | | | | Sunday | | | |
| 9 | | | | | Sunday | | | | | | | | | |
| 10 | | | | | | | | | Saturday | | | | | |
| 11 | | | Saturday | | | | Guest Lecture UG | | Sunday | | Ekadashi Diwali Begins | | | |

| Month | June | | July | | Aug | | Sept | | Oct | | Nov | | Dec | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status |
| 12 | | | Sunday | | | | Saturday | | | | | | Saturday | |
| 13 | Saturday | | | | | | Sunday | | Guest Lecture UG | | | | Sunday | |
| 14 | Sunday | | | | | | | | | | Saturday | | | |
| 15 | Workload Distribution / Time Table Preparation | | | | Independence Day / Saturday | | | | | | Sunday | | | |
| 16 | | | | | Sunday | | | | | | Bhaubeej | | | |
| 17 | Time Table Display/ Message | | | | | | | | Saturday | | | | | |
| 18 | | | Saturday | | | | | | Sunday | | | | | |
| 19 | | | Sunday | | | | Saturday | | | | | | Saturday | |
| 20 | Saturday | | | | | | Sunday | | | | | | Sunday | |
| 21 | Sunday | | | | Moharam | | Principal's Address to Staff | | | | Saturday | | | |
| 22 | | | . | | Saturday | | | | | | Sunday | | | |
| 23 | | | | | Sunday | | | | | | | | | |
| 24 | | | | | | | | | Saturday | | | | | |
| 25 | | | Saturday | | | | | | Sunday | | | | Christmas | |
| 26 | | | Sunday | | | | Saturday | | | | | | Saturday | |
| 27 | Saturday | | | | | | Sunday | | Guest Lecture UG | | | | Sunday | |
| 28 | Sunday | | | | | | | | | | Saturday | | | |
| 29 | | | | | Saturday | | | | | | Sunday | | | |
| 30 | | | | | Sunday | | | | Journal Distribution UG | | | | | |
| 31 | | | | | | | | | Saturday | | | | | |

Note
1. Every Friday Session plan compliance to be checked by respective HODs
2. Submission of MIS on 5th of every month.
3. Practical Exam and theory examination as per SPPU Guidelines
4. Practical Conduction as per SPPU guidelines (Due to Covid)
5. UG and PG Examination form submission as per SPPU Guidelines (Due to Covid)
6. Internal Examination will be conducted before external examination of SPPU

HOD
Commerce

HOD
Science

Principal

Issue no. 1 Rev No. 0   Dt 1.10.2019

2

## Academic Calendar (A.Y. 2020-2021)

| Month / Date | January Planned Activity | Implementation Status | February Planned Activity | Implementation Status | March Planned Activity | Implementation Status | April Planned Activity | Implementation Status | May Planned Activity | Implementation Status | June Planned Activity | Implementation Status | July Planned Activity | Implementation Status |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Workload Distribution / Time Table Preparation Time Table Display/Message | | | | | | | | Holiday Saturday | | | | | |
| 2 | Saturday | | | | | | Holiday | | Sunday | | | | | |
| 3 | Sunday | | | | | | Saturday | | | | | | Saturday | |
| 4 | UG Second Session Commencement | | | | | | Sunday | | | | | | Sunday | |
| 5 | Session Plan Preparation | | | | | | Guest Lecture UG | | | | Saturday | | | |
| 6 | | | Saturday | | Saturday | | | | | | Sunday | | | |
| 7 | | | Sunday | | Sunday | | | | | | | | | |
| 8 | | | | | International Women's Day | | | | Saturday | | | | | |
| 9 | Saturday | | | | | | | | Sunday | | | | | |
| 10 | Sunday | | | | Guest Lecture UG | | Saturday | | | | | | Saturday | |
| 11 | | | | | Holiday | | Sunday | | | | | | Sunday | |
| 12 | | | | | | | | | | | Saturday | | | |
| 13 | | | Saturday | | Saturday | | Holiday | | | | Sunday | | | |
| 14 | | | Sunday | | Sunday | | Holiday | | Holiday | | | | | |
| 15 | | | Guest Lecture UG | | | | | | Saturday | | Second Semester Commencement PG | | | |
| 16 | Saturday | | | | | | | | Sunday | | | | | |
| 17 | Sunday | | | | | | Saturday | | | | | | Saturday | |
| 18 | | | | | | | Sunday | | | | | | Sunday | |
| 19 | | | Holiday | | | | | | | | Saturday | | | |
| 20 | Guest Lecture UG | | Saturday | | Saturday | | | | | | Sunday | | | |
| 21 | | | Sunday | | Sunday | | | | | | | | Holiday | |
| 22 | | | | | | | | | Saturday | | | | | |
| 23 | Saturday | | | | | | | | Sunday | | | | | |
| 24 | Sunday | | | | | | Saturday | | | | | | Saturday | |
| 25 | | | | | | | Sunday | | | | | | Sunday | |
| 26 | Republic Day | | | | | | | | Holiday | | Saturday | | | |

3

| Month | January | | February | | March | | April | | May | | June | | July | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date ↓ | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status |
| 27 | | | Saturday | | Saturday Marathi Bhasha Din | | | | | | Sunday | | | |
| 28 | | | Sunday | | Sunday | | | | | | | | | |
| 29 | | | | | Holiday | | | | Saturday | | | | | |
| 30 | Saturday | | | | | | | | Sunday | | | | | |
| 31 | Sunday | | | | | | | | | | | | Saturday | |

Note:
1. Every Friday Session plan compliance to be checked by respective HODs
2. Submisssion of MIS on 5th of every month.
3. Practical Exam and theory examination as per SPPU Guidelines
4. Practical Conduction as per SPPU guidelines (Due to Covid)
5. UG and PG Examination form submission as per SPPU Guidelines (Due to Covid)
6. Internal Examination will be conducted before external examination of SPPU

HOD
Commerce

HOD
Science

Principal

Issue no. 1 Rev No. 0  Dt 1.10.2019

4

Bansilal Ramnath Agarwal Charitable Trust's
**Vishwakarma College of Arts, Commerce and Science, Pune.**
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

## Academic Calendar (A.Y. 2021-2022)

| Month | June | | July | | Aug | | Sept | | Oct | | Nov | | Dec | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status |
| 1 | Admission Process Continued for Sr. College | | NSS & SDO Proposal submission to SPPU | | Sunday | | UG - SY/TY Time Table Display/ Message | | UG- FY & PG- SY lecture Commencement | | | | | |
| 2 | | | | | | | Session Plan Preparation | | Saturday Gandhi Jayanti Tree Plantation | | | | | |
| 3 | | | Saturday | | | | | | Sunday | | | | | |
| 4 | | | Sunday | | | | Saturday | | | | Laxmipujan | | Saturday | |
| 5 | Saturday | | | | | | Sunday | | | | Diwali Padwa | | Sunday | |
| 6 | Sunday | | | | | | | | | | Bhaubeej | | | |
| 7 | | | | | Saturday | | | | | | Sunday | | | |
| 8 | | | | | Sunday | | UG- SY & TY lecture Commencement | | | | | | | |
| 9 | | | | | | | | | Saturday | | | | | |
| 10 | | | Saturday | | | | Ganesh Chaturthi | | Sunday | | | | | |
| 11 | | | Sunday | | | | Saturday | | Seminar /Webinar | | | | Saturday | |

| Month Date | June | | | July | | | Aug | | | Sept | | | Oct | | | Nov | | | Dec | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Planned Activity | Implementation | Status | Planned Activity | Implementation | Status | Planned Activity | Implementation | Status | Planned Activity | Implementation | Status | Planned Activity | Implementation | Status | Planned Activity | Implementation | Status | Planned Activity | Implementation | Status |
| 12 | Saturday | | | UG-University Examination April-2021 Commencement | | | | | | Sunday | | | | | | | | | Sunday | | |
| 13 | Sunday | | | | | | | | | | | | | | | Saturday | | | | | |
| 14 | | | | | | | Saturday | | | | | | | | | Sunday | | | | | |
| 15 | | | | | | | Sunday Independence Day | | | | | | Dussera | | | | | | | | |
| 16 | | | | | | | | | | | | | Saturday | | | | | | | | |
| 17 | | | | Saturday | | | | | | Principal's Address to Staff | | | Sunday | | | Seminar/Webinar | | | | | |
| 18 | | | | Sunday | | | | | | Saturday | | | | | | | | | Saturday | | |
| 19 | Saturday | | | | | | Moharam | | | Sunday Anant Chaturdashi | | | Eid-e-Milad | | | Gurunak Jayanti | | | Sunday | | |
| 20 | Sunday International Yoga Day | | | | | | | | | | | | | | | Saturday | | | | | |
| 21 | | | | Bakri ID | | | Saturday | | | | | | Seminar/Webinar | | | Sunday | | | | | |
| 22 | | | | | | | Sunday Raksha bandhan | | | | | | Principal's Address to FY | | | | | | | | |
| 23 | | | | | | | Workload Distribution | | | | | | Saturday | | | | | | | | |
| 24 | | | | Saturday | | | Time Table Preparation | | | | | | Sunday | | | | | | | | |

2

| Month | June | | | July | | | Aug | | | Sept | | | Oct | | | Nov | | | Dec | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Planned Activity | Implementation | Status | Planned Activity | Implementation | Status | Planned Activity | Implementation | Status | Planned Activity | Implementation | Status | Planned Activity | Implementation | Status | Planned Activity | Implementation | Status | Planned Activity | Implementation | Status |
| 25 | | | | Sunday | | | | | | Saturday | | | Internal Assessment | | | Internal Assessment | | | Saturday Christmas | | |
| 26 | Saturday | | | | | | | | | Sunday | | | Sanvidhan Divas | | | | | | Sunday | | |
| 27 | Sunday | | | | | | | | | UG -FY PG-SY Time Table Display/ Message | | | | | | Saturday | | | | | |
| 28 | | | | | | | Saturday | | | | | | | | | Sunday | | | | | |
| 29 | | | | | | | Sunday | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | Saturday | | | | | | | | |
| 31 | | | | Saturday | | | | | | | | | Sunday | | | | | | | | |

Note:

1. Every Friday Session plan compliance to be checked by respective HODs
2. Submisssion of MIS on 5th of every month.
3. Practical Exam and theory examination as per SPPU Guidelines
4. Practical Conduction as per SPPU guidelines (Due to Covid)
5. UG and PG Examination form submission as per SPPU Guidelines (Due to Covid)
6. ternal Examination will be conducted before external examination of SPPU

HOD
Commerce

HOD
Science

Principal

Issue no. 1 Rev No. 0   Dt 1.10.2019

3

**FF52**

## Academic Calendar (A.Y. 2021-2022)

| Month Date | January - 22 Planned Activity | Implementation Status | February - 22 Planned Activity | Implementation Status | March - 22 Planned Activity | Implementation Status | April - 22 Planned Activity | Implementation Status | May - 22 Planned Activity | Implementation Status |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | MAHASHIVRATRI | | | | SUNDAY | |
| 2 | SUNDAY | | | | | | Gudi Padwa | | | |
| 3 | | | | | | | SUNDAY | | Cultural Week | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | Guest Lecture UG | |
| 6 | | | SUNDAY | | SUNDAY | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | Workload Distribution | | Guest Lecture - PG | | SUNDAY | |
| 9 | SUNDAY | | | | | | | | | |
| 10 | | | | | | | SUNDAY | | | |
| 11 | | | | | Time Table Preparation | | | | | |
| 12 | | | | | Time Table Display | | | | Guest Lecture - PG | |
| 13 | | | SUNDAY | | SUNDAY | | Guest Lecture - UG | | | |
| 14 | | | | | Session Plan | | Dr. Ambedkar Jayanti | | | |
| 15 | | | SUNDAY | | | | Good Friday | | SUNDAY | |
| 16 | SUNDAY | | | | | | | | | |
| 17 | | | | | Guest Lecture - UG | | SUNDAY | | | |
| 18 | | | | | Dhulivandan | | | | | |
| 19 | | | Chhatrapati Shivaji Maharaj Jayanti | | | | | | | |
| 20 | | | SUNDAY | | SUNDAY | | | | | |
| 21 | | | | | | | | | | |
| 22 | | | | | | | | | SUNDAY | |
| 23 | SUNDAY | | | | | | | | Internal Examination | |

4

| th ate | January - 22 | | February - 22 | | March - 22 | | April - 22 | | May - 22 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status | Planned Activity | Implementation Status |
| 24 | | | | | | | SUNDAY | | | |
| 25 | | | | | | | | | | |
| 26 | Republic Day | | | | | | Guest Lecture UG | | | |
| 27 | | | SUNDAY | | SUNDAY | | Activity PG | | | |
| 28 | | | | | Second Term/ Semester Commencement UG | | | | | |
| 29 | | | | | | | | | SUNDAY | |
| 30 | SUNDAY | | | | | | | | | |
| 31 | | | | | | | | | | |

Note:

1. Every Friday Session plan compliance to be checked by respective HODs
2. Submisssion of MIS on 5th of every month.
3. Practical Exam and theory examination as per SPPU Guidelines
4. Practical Conduction as per SPPU guidelines (Due to Covid)
5. UG and PG Examination form submission as per SPPU Guidelines (Due to Covid)
6. Internal Examination will be conducted before external examination of SPPU

HOD
Commerce

HOD
Science

Principal

Issue no. 1 Rev No. 0   Dt 1.10.2019

# Time
# Table

BRACT's

# Vishwakarma College of Arts, Commerce and Science

S. No. 3/4 Kondhwa (Bk.), Pune- 48

## Time Table for the Year 2017-18

## Class- FY BBA(IB)

| Room No B-105 | Class Teacher - Geetanjali Kale | | | | Date-16-11-2017 |
|---|---|---|---|---|---|
| **Time Table** | | | | | |
| **Time** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| 7:30-8:15 | IT in B. Oper -DD | Macro Eco. Ana. - JM | Cost A/c- GK | Cost A/c- GK | Cost A/c- GK |
| 8:15-9:00 | Macro Eco. Ana. - JM | Ele. Of HRM- SM | Macro Eco. Ana. - JM | Macro Eco. Ana. - JM | Cost A/c- GK |
| 9:00 - 9:45 | Bus. Stat - RV | Bus. Stat - RV | Ele. Of HRM- SM | Ele. Of HRM- SM | IT in B. Oper -DD |
| 9.45-10:15 | B R E A K | | | | |
| 10:15-11:00 | Ele. Of HRM- SM | Prin. Of Mrkt - KA | Prin. Of Mrkt - KA | Prin. Of Mrkt - KA | Bus. Stat - RV |
| 11:00-11:45 | Prin. Of Mrkt - KA | IT in B. Oper -DD | IT in B. Oper -DD | Bus. Stat - RV | |

| Faculties | Subject |
|---|---|
| SM Shital Mantri | Elements of HRM |
| KA Kirti Arge | Principles of Mark. |
| RV Ruta Vaidya | Business Statistics |

| Faculties | Subject |
|---|---|
| JM Jaykumar Misal | Macro Eco. Analysis |
| GK Geetanjali Kale | Cost Accounting |
| DD Deepali Dange | IT in B. Operations |

Coordinator

HOD

Dr. Arun R. Patil
PRINCIPAL
**Principal**
Vishwakarma College of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048.

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
### Time Table for the Year 2017-18
## Class- SY BBA(IB)

| Room No B-102 | Class Teacher - Madhuri Sawant | | | Date-16-11-2017 | |
|---|---|---|---|---|---|
| **Time Table** | | | | | |
| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
| 11.45-12.30 | Bus. Tax- BJ | German - SN | German - SN | Int. bus. Service Sec.- MS | Int. Agri Bus.- KD |
| 12:30-01:15 | FE Operations -SS | German - SN | German - SN | FE Operations -SS | Bus. Tax- BJ |
| 01:15-02:00 | Int. Agri Bus.- KD | Bus. Tax- BJ | FE Operations -SS | Int. Agri Bus.- KD | Bus. Tax- BJ |
| 02:00-02:30 | B R E A K | | | | |
| 02:30-03:15 | Int. bus. Service Sec.- MS | FE Operations -SS | Int. Agri Bus.- KD | Bus. Expor - KD | Bus. Expor - KD |
| 03:15-04:00 | Bus. Expor - KD | Int. bus. Service Sec.- MS | Int. bus. Service Sec.- MS | Bus. Expor - KD | |

**Faculties**
MS Madhuri Sawant
KD Komal Dalnar
BK Bhakti Joshi
SN Sumitra Nahar
SS* Suvarna Shinde
KD Komal Dalnar

**Subject**
International Business In Service Sector
International Agri. Business
Bus. Taxation
German
Foreign Exchange Operations
Business Exposure

**Coordinator**

SPSatye
**HOD**

**Principal**

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
## Time Table for the Year 2017-18
### Class- FY BBA

| Room No 208 | Class Teacher - Komal Dalnar | | | Date-16-11-2017 | |
|---|---|---|---|---|---|

## Time Table

| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| 7:30-8:15 | POF- JM | POMrkt-KD | POF- JM | B. Cost A\C- PJ | POF- JM |
| 8:15-9:00 | POMrkt-KD | Bus. Stat - RV | POMngt- SM | B. Cost A\C- PJ | POMngt- SM |
| 9:00 - 9:45 | POMngt- SM | POMngt- SM | POMrkt-KD | POF- JM | Bus. Stats- RV |
| 9.45-10:15 | B R E A K | | | | |
| 10:15-11:00 | Bus. Stat - RV | Bus. Inform- DD | B. Cost A\C- PJ | Bus. Inform- DD | Bus. Inform- DD |
| 11:00-11:45 | Bus. Inform- DD | B. Cost A\C- PJ | Bus. Stats- RV | POMrkt-KD | |

| Faculties | Subject | Faculties | Subject |
|---|---|---|---|
| **SM** Shital Mantri | Principles of Mgmt. | **JM** Jaykumar Misal | Principle of Finance |
| **KA** Kirti Arge | Principles of Marketing | **PJ** Poonam Jadhav | Basics of Cost Accounting |
| **RV** Ruta Vaidya | Business Statistics | **DD** Deepali Dange | Business Informatics |

**Coordinator**

**HOD**

**Principal**
Vishw... ...ge of Arts
C... ...Science
Kondh... ...ne - 411...

## Time Table for the Year 2017-18

## Class- SY BBA

| Room No. 206 | Class Teacher - Kirti Arge | | | | Date-16-11-2017 |
|---|---|---|---|---|---|

| Time Table | | | | | |
|---|---|---|---|---|---|
| **Time** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| 11.45-12.30 | P&OM - MS | Bus. Tax- PJ | P&OM - MS | IR&LL - SM | P&OM - MS |
| 12:30-01:15 | IR&LL - SM | IR&LL - SM | Bus. Tax- PJ | P&OM - MS | IR&LL - SM |
| 01:15-02:00 | International Bus. - SS* | International Bus. - SS* | Bus. Tax- PJ | International Bus. - SS* | Bus. Tax- PJ |
| 02:00-02:30 | B R E A K | | | | |
| 02:30-03:15 | MIS - VK | MIS - VK | International Bus. - SS* | MIS - VK | MIS - VK |
| 03:15-04:00 | Bus. Expor - SM* | Bus. Expor - SM* | Bus. Expor - SM* | Bus. Expor - SM* | |

| **Faculties** | **Subject** | **Faculties** | **Subject** |
|---|---|---|---|
| **MS** Madhuri Sawant | Prod. & Opers Mgmt. | **PJ** Poonam Jadhav | Business Taxation |
| **SM** Shital Mantri | Ind. Rel. & Labour Law | **VK** Vaishali Kale | Mgmt. Info System |
| **SS*** Suvarna Shinde | International Bus. | **SM*** Suneeta Mahadik | Bus. Exposure |

Coordinator

HOD

Principal
Vishwakarma College of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048.

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
## Time Table for the Year 2017-18
## Class- TY BBA

| Room No 110 | Class Teacher - Sunita Mahadik | | | | |
|---|---|---|---|---|---|
| | | | | | Date-16-11-2017 |

### Time Table

| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| 11.45-12.30 | EM -KD | BPPM - SM* | MCS - SM | EM -KD | E-Commerce - KA |
| 12:30-01:15 | BPPM - SM* | Sp. Paper III Fin- GK HRM- KD | Sp. Paper IV Fin- BJ HRM- SM* | Sp. Paper IV Fin- BJ HRM- SM* | Sp. Paper III Fin- GK HRM- KD |
| 01:15-02:00 | BPPM - SM* | Sp. Paper III Fin- GK HRM- KD | Sp. Paper IV Fin- BJ HRM- SM* | Sp. Paper IV Fin- BJ HRM- SM* | Sp. Paper III Fin- GK HRM- KD |
| 02:00-02:30 | B    R    E    A    K | | | | |
| 02:30-03:15 | E-Commerce - KA | EM -KD | E-Commerce - KA | MCS - SM | BPPM - SM* |
| 03:15-04:00 | MCS - SM | MCS - SM | EM -KD | E-Commerce - KA | |

| Name of Faculty | Subject | Name of Faculty | Subject |
|---|---|---|---|
| SM* Suneeta Mahadik | Bus. Plan. & Project Mgmt | KD Komal Dalnar | Event Mgmt |
| SM Shital Mantri | Mgmt. Control System | KA Kirti Arge | E- Commerce |
| KD Komal Dalnar | Labour Laws (HRM III) | GK Geetanjali Kale | Financial Services(Finance III) |
| SM* Suneeta Mahadik | Cases & Project HRM ( HRM IV) | BJ Bhakti Joshi | Cases & Project Finance ( Finance IV) |

Coordinator

HOD

Principal

# Vishwakarma College of Arts, Commerce and Science

S. No. 3/4 Kondhwa (Bk.), Pune- 48

## Time Table for the Year 2017-18

## Class- FY B.Com

| Room No 109 | Class Teacher - Suvarna Shinde | | | | Date-16-11-2017 |
|---|---|---|---|---|---|
| **Time Table** | | | | | |
| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
| 7:30-8:15 | E. Commerce- BJ Mkt & Sales- KA | E. Commerce- BJ    Mkt & Sales- KA | Marathi-LH Hindi-HD | Marathi-LH Hindi-HD | CCA-DD Maths.- YH |
| 8:15-9:00 | E. Commerce- BJ Mkt & Sales- KA | E. Commerce- BJ    Mkt & Sales- KA | Marathi-LH Hindi-HD | Marathi-LH Hindi-HD | CCA-DD Maths.- YH |
| 9:00 - 9:45 | Financial A/c-SS | Bank.& Finance-JM | Compl. English  - DJ | Busi. Economics - SS* | Compl. English  - DJ |
| 9.45-10:15 | B  R  E  A  K | | | | |
| 10:15-11:00 | Compl. English  - DJ | Busi. Economics - SS* | CCA-DD Maths.- YH | Financial A/c-SS | Financial A/c-SS |
| 11:00-11:45 | Busi. Economics - SS* | Compl. English  - DJ | Bank.& Finance-JM | CCA-DD Maths.- YH | Financial A/c-Practical Lab II |
| 11:45-12:30 | Bank.& Finance-JM | Financial A/c-SS | Busi. Economics - SS* | Bank.& Finance-JM | |

| Name of Faculty | Subject | Name of Faculty | Subject |
|---|---|---|---|
| DJ Deepti Jakhalekar | Compulsory English | JM Jaykumar Misal | Banking & Finance |
| SS Swati Sathye | Financial Accounting | BJ Bhakti Joshi | Essentials of E-Commerce |
| SS* Suvarna Shinde | Bussiness Economics | KA Kirti Arge | Marketing & Salesmanship |
| YH Yashashri Harshe | Business Mathematics & Stats | HD Haishchandra Dhotre | Hindi |
| DD Deepali Dange | Computer Concept & App. | LH Laxman Hakke | Marathi |

PSJadhav

**Coordinator**

SSathye

**HOD**

Dr. A. Principal
PRINCIPAL
Vishwakarma College of Arts
Commerce & Science

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
## Time Table for the Year 2017-18
## Class- SY B.Com

| Room No 208 (VMI) | Class Teacher - Jaykumar Misal | | | Date-16-11-2017 | |
|---|---|---|---|---|---|

| Time Table | | | | | |
|---|---|---|---|---|---|
| **Time** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| 7:30-8:15 | Bus. Adm. I-SM* C&W A/C I-PJ | Bus. Adm. I-SM* C&W A/C I-PJ | Bus.Comm -KA | Bus.Mngt-MS | Bus.Mngt-MS |
| 8:15-9:00 | Bus. Adm. I-SM* C&W A/C I-PJ | Bus. Adm. I-SM* C&W A/C I-PJ | Company Law -GK | Cor .A/C-SS | B.Economics -JM |
| 9:00 - 9:45 | Company Law -GK | Cor .A/C-SS | B.Economics -JM | Company Law -GK | Cor .A/C-SS |
| 9.45-10:15 | B R E A K | | | | |
| 10:15-11:00 | Bus.Comm -KA | Bus.Mngt-MS | Cor .A/C-SS | B.Economics -JM | Bus.Comm -KA |
| 11:00-11:45 | B.Economics -JM | Bus.Comm -KA | Bus.Mngt-MS | Evs - VK | Company Law -GK |
| 11:45-12:30 | | | | | Evs - VK |

| Faculties | Subject | Faculties | Subject |
|---|---|---|---|
| KA Kirti Arge | Business Communication | GK Geetanjali Kale | Elements of Company Law |
| SS Swati Sathye | Corporate Accounting | PJ Poonam Jadhav | Cost & Works Accounting I |
| JM Jaykumar Misal | Business Economics (Macro) | SM Sunita Mahadik | Business Administration I |
| MS Madhuri Sawant | Business Management | VK Vaishali Kale | EVS |

PSJadhav
**Coordinator**

SPSathye
**HOD**

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma **Principal** College of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048.

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
## Time Table for the Year 2017-18
## Class-TY B.Com

| Room No 203 (VMI) | Class Teacher - Bhakti Joshi | | | | Date-16-11-2017 |
|---|---|---|---|---|---|
| **Time Table** | | | | | |
| **Time** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| 7:30-8:15 | BA-II - MS / C&W A/c II-GK | BA-II - MS / C&W A/c II-GK | BA-III-SM* C& W A/c III- BJ | BA-III-SM* C& W A/c III- BJ | Audit & Tax- PJ |
| 8:15-9:00 | BA-II - MS / C&W A/c II-GK | BA-II - MS / C&W A/c II-GK | BA-III-SM* C& W A/c III- BJ | BA-III-SM* C& W A/c III- BJ | Audit & Tax- PJ |
| 9:00 - 9:45 | IGE- JM | Adv. A/c.-GK | Adv. A/c.-GK | Audit & Tax- PJ | BRF- BJ |
| 9.45-10:15 | B R E A K | | | | |
| 10:15-11:00 | BRF- BJ | BRF- BJ | IGE- JM | Adv. A/c.-GK | IGE- JM |
| 11:00-11:45 | Audit & Tax- PJ | IGE- JM | BRF- BJ | Adv. A/c.-GK | |

| Faculties | Subject | Faculties | Subject |
|---|---|---|---|
| **BJ** Bhakti Joshi | Business Regulatory Fram. | **GK** Geetanjali Kale | Costing II |
| **GK** Geetanjali Kale | Advanced Accounting | **BJ** Bhakti Joshi | Costing III |
| **JM** Jaykumar Misal | Indi. Global Economics | **MS** Madhuri Sawant | Bus. Admin II |
| **PJ** Poonam Jadhav | Auditing & Taxation | **SM** Sunita Mahadik | Bus. Admin III |

PSJadhav
**Coordinator**

spsatye
**HOD**

Dr. Arun R. Pund
PRINCIPAL
Vishwakarma **Principal** of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048.

BRACT'S
# Vishwakarma College of Arts, Commerce and Science
## Time -Table 2017- 18
### FY BSC (Computer Sci)

w.e.f. 13/11/2017

**Hall No : 108**

**Div - A**

| Day/Time | 9.00 to 11.30 | 11:45 to 12:30 | 12:30 to 1:15 | 1.15 - 1.45 | 1.45 to 2.30 | 2.30 to 3.15 | 3.15 -4.00 | 4.00- 6.15 | |
|---|---|---|---|---|---|---|---|---|---|
| Monday | | M1(SK*) | S1 (RV) | | E2 (KY) | M2(PB) | E1 (SK) | B1-C1 (Lab IV) MN, B3 - C2 (Lab I) TG | |
| Tuesday | B1-Ele (Ele Lab) KY | C1 (MN) | M1(SK*) | | S2 (RV) | E1 (SK) | C2 (SS) | B3-C1 (Lab IV) MN | |
| Wenesday | | C2 (SS) | S1 (RV) | BREAK | M2(PB) | S1 (RV) | E2 (KY) | B2- C1 (Lab IV) MN,  B1 - C2 ( Lab III) SW | |
| Thrusday | | Math Practical ( SK*) | C1 (MN) | | E1 (SK) | S2 (RV) | S2 (RV) | B2 - C2 (Lab III) TG , B3-Ele(Ele Lab) KY | |
| Day/Time | 9.00  to 11.30 | 11:45 to 12:30 | 12:30 to 1:15 | | 1.45 to 2.30 | 2.30 to 3.15 | 3.15 -4.00 | 4.00- 4.45 | |
| Friday | B2-Ele (Ele Lab) KY | M1(SK*) | C2 (SS) | | M2(PB) | C1 (MN) | E2 (KY) | STAT Practical (RV) | |

## Subjects

**CS1:**  Problem Solving using Computer And C Language
**CS2:** file Organisation and Fundamental of Database
**E1:** Principles of Analog Electronics
**E2:** Principles of Digital Electronics
**M1:** Discrete Mathematics
**M2:** Algebra and Calculus
**S1:** Statistics Method-I
**S2:** Statistics Method-II

**CS1: Practicals**

**CS2: Practicals**

**Electronics Practicals**

## Faculties

MN: Mohini Nikam
SS: Sunila Shivtare
SK: Sameer Khole
KY: Komal Yadav
SK* : Snehal Kulkarni
PB: Prajakta Bhalerao
RV: Ruta Vaidya
RV: Ruta Vaidya
MN: Mohini Nikam
TG: Trupti Gaikwad

**Coordinator**

**HOD**

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts
**Principal** Science
Kondhwa(Bk.), Pune - 411 048.

BRACT'S
**Vishwakarma College of Arts,Commerce and Science**
Time -Table 2017- 18
**FY BSC (Computer Sci)**                     w.e.f. 13/11/2017

**Hall No : 208**                     Div - B

| Day/Time | 9.00 to 11.30 | 11:45 to 12:30 | 12:30 to 1:15 | 1.15 - 1.45 | 1.45 to 2.30 | 2.30 to 3.15 | 3.15 -4.00 | 4.00- 6.15 |
|---|---|---|---|---|---|---|---|---|
| Monday | | M2(PB) | C1 (MN) | B | M1(SK*) | S1 (RV) | STAT Practical | B6-C I (Lab V) SS*, B4- Elec (Ele Lab) KY , B5 - CS II - (Lab III) SD |
| Tuesday | | M1(SK*) | E1 (PC) | R | E2 (KY) | C2 (SS) | S2 (RV) | B4-CII (Lab III) SD , B6 - ELC (Ele Lab) KY |
| Wenesday | B5- Elec (Ele Lab) KY | Mah Practical (PB) | C2 (SS) | E | M1(SK*) | E2 (KY) | C1 (MN) | |
| Thrusday | | S1 (RV) | S2 (RV) | A | C1 (MN) | E1 (PC) | M2(PB) | B4 - C1-(Lab IV) MN, B5- C1-(Lab I)- SS*, B6 - C II -(Lab I) SD |
| Day/Time | | 11:45 to 12:30 | 12:30 to 1:15 | 1.15 - 1.45 | 1.45 to 2.30 | 2.30 to 3.15 | 3.15 -4.00 | 4.00- 4.45 |
| Friday | | C2 (SS) | E1 (PC) | K | S1 (RV) | S2 (RV) | M2(PB) | E2 (KY) |

|  | **Subjects** | |  | **Faculties** |
|---|---|
| CS1: | Problem Solving using Computer And C Language | MN: Mohini Nikam |
| CS2: | file Organisation and Fundamental of Database | SS: Sunila Shivtare |
| E1: | Principles of Analog Electronics | PC : Poonam Chavan |
| E2: | Principles of Digital Electronics | KY: Komal Yadav |
| M1: | Discrete Mathematics | SK*: Snehal Kulkarni |
| M2: | Algebra and Calculus | PB: Prajakta Bhalerao |
| S1: | Statistics Method-I | RV: Ruta Vaidya |
| S2: | Statistics Method-II | RV: Ruta Vaidya |
| **CS1: Practicals** | | MN: Mohini Nikam + SS*: Sunila Shivtare |
| **CS2: Practicals** | | SD: Smita Deshmukh |
| **Electronics Practicals** | | |

**Coordinator**          **HOD**          Dr. A **Principal** Patil
PRINCIPAL
Vishwakarma College of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048.

Scanned with OKEN Scanner

**SYBSC(Computer Sci)**    **SEM II**      w.e.f.-13/11/2017

**Hall No : VMI 209**      **Div A**

| Day/Time | 9.00 TO 11.30 | 10.00 -11.30 | 11:45 - 12:30 | 12:30 - 1:15 | 1:15 to 1:45 | 1.45 - 2.30 | 2.30 - 3.15 | 3.15 -4.00 | 4.00 -4.45 |
|---|---|---|---|---|---|---|---|---|---|
| Monday | B1-CPP (Lab V) SW, B3-Math(Lab 2) SK*, | B2-RDBMS(Hall 110) PS | E1 (SK) | Eng (SL) | | M2 (YH) | E2 (PC) | M1(SK*) | M1(SK*) |
| Tuesday | B2-CPP(Lab V) TG , B1-Math(Lab 2) YH | , B3- RDBMS (Hall 110) PS | E2 (PC) | Eng (SL) | | E1 (SK) | C2(AP) | M2 (YH) | C1 (TG) |
| Wednesday | B3-CPP(Lab V) TG, B1-Elc(PC) | | C2(AP) | Eng (SL) | BREAK | E2 (PC) | C1 (TG) | E1 (SK) | M2 (YH) |
| Thrusday | B2- Elc(PC) | B1- RDBMS(Hall 110) PS, | C1 (TG) | E2 (PC) | | C2(AP) | M2 (YH) | M1(SK*) | EVS (VK) |
| Friday | B2 - Math (Lab 2) PB, B3 - Elc(SK) | | C2(AP) | Eng (SL) | | M1(SK*) | C1 (TG) | E1 (SK) | EVS (VK) |

| Subjects | | Faculties |
|---|---|---|
| CS1: | Object oriented Programming using CPP | TG: Trupti Gaikwad |
| CS2: | Software Engineering | AP: Anjum Patel |
| E1: | 8051 Archi,Interfacing Prog | SK: Sameer Khole |
| E2: | Communication Principal | PC : Poonam Chavan |
| M1: | Computational Geometry | SK*: Snehal Kulkarni |
| M2: | Operation Research | YH : Yashshree Harshe |
| Eng | English | SL: S. Lokhande |
| EVS: | Environment | VK: Vaishali Kale |
| | Mini Project | PP : Prajkta Patil + PS : Prajakta Shrungarpure |
| | CPP Practical | TG: Trupti Gaikwad + SW: Sonali Walekar |

**Course Coordinator**      **HOD**      **PRINCIPAL**

# Vishwakarma College of Arts,Commerce and Science
## Time -Table 2017-18

**SYBSC(Computer Sci)**    **SEM II**     **w.e.f.-13/11/2017**
**Div B**

**Hall No : B 105**

| Day/Time | 9.00 TO 11.30 | 10.00 -11.30 | 11:45 - 12:30 | 12:30 - 1:15 | 1:15 to 1:45 | 1.45 - 2.30 | 2.30 - 3.15 | 3.15 -4.00 | 4.00 -4.45 |
|---|---|---|---|---|---|---|---|---|---|
| Monday | B4-Math(Lab 4) PB, B5 - Elec(SK) | | Eng (SL) | C2(PP) | | E1 (SK) | C1(SS*) | E2(PC) | EVS (VK) ( 4.00 - 5.30) |
| Tuesday | B5-Math(Lab 4) PB, B6 - Elc(SK) | | Eng (SL) | C1(SS*) | | M2 (YH) | M1(SK*) | E2(PC) | E1 (SK) |
| Wednesday | B4-CPP(Lab 2) SW | ,B5-RDBMS(Hall 110) PS, B6 - RDBMS (Hall 110) PP | Eng (SL) | M1(SK*) | BREAK | C2(PP) | E1 (SK) | M2 (YH) | E2(PC) |
| Thrusday | B5-CPP (Lab V) SW, B6- Math(Lab 2) PB , | B4 -RDBMS(Hall 110) PP | C1(SS*) | C2(PP) | | M1(SK*) | E1 (SK) | E2(PC) | M2 (YH) |
| Friday | B6- CPP (Lab 4) TG | | Eng (SL) | M1(SK*) | | C2(PP) | C1(SS*) | M2 (YH) | B4 - Elc (PC) - 4.00 to 6:15 pm |

### Subjects
CS1: Object oriented
CS2: Software Engineering
E1: 8051 Archi,Interfacing Prog
E2: Communication Principal
M1: Computational Geometry
M2: Operation Research
Eng  English
EVS: Environment
    RDBMD Practical
    DS Practical

### Faculties
SS*: Sunila Shivtare
PP : Prajkta Patil
SK: Sameer Khole
PC : Poonam Chavan
SK*: Snehal Kulkarni
YH : Yashshree Harshe
SL: S. Lokhande
VK: Vaishali Kale
PP: Prajakta Patil + PS : Prajakta Shrungarpure
TG: Trupti Gailwad + SW: Sonali Walekar

**Coordinator**

**HOD**

**Principal**
Vishwakarma College of Arts
Commerce and Science
Kondhwa(Bk), Pune - 411 048.

# BRACT's
## Vishwakarma College of Arts, Commerce and Science
## Time -Table 2017-18
### TYBSC (Comp. Sci)    SEM IV

w. e.f.-13/11/2017

Hall No : 207

| Day/Time | 7.30 - 8.15 | 8.15- 9.00 | 9.00 - 9.30 | 9.30 - 10.15 | 10.15 -11.00 | 11.00 - 11.45 | 11.45 - 2.45 |
|---|---|---|---|---|---|---|---|
| Monday | CC(PP) | OS (MP) | B | Java (VT) | CN (VK) | IP (KK) | B1-(Lab 3) KK, B2-(Lab V) MP, B3-(Lab 4) VR |
| Tuesday | OS (MP) | CC(PP) | R | Graphics(SP) | Java (VT) | IP (KK) | B2-(Lab 3) KK, B1-(Lab V) MP, B4-(Lab 4) VR |
| Wednesday | CC(PP) | OS (MP) | E | Graphics(SP) | CN (VK) | IP (KK) | B3-(Lab 3) KK, B4-(Lab V) MP, B1-(Lab 4) VR |
| Thrusday | Graphics(SP) | CC(PP) | AK | IP (KK) | CN (VK) | Java (VT) | B4-(Lab 3) KK, B3-(Lab V) MP, B2-(Lab 4) VR |
| Friday | Aptitude Exam – Preparation | | 8.30 - 9.15 OS (MP) | Graphics(SP) | Java (VT) | CN (VK) | |

## Subjects

CS1: Operating System
CS2: Compiler Construction
CS3: Computer Network II
CS4: Internet Programming II
CS5: Java II
CS6: Computer Graphics

## Faculties

MP : Minal Patil
PP : Prajkta Patil
VK: Vaishali Kale
KK: Kavita Khoje
VR: Varsha Thakare
SP: Swati Pujari Patil

**Coordinator**

**HOD**

**Principal**

Vishwakarma College of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048.

Scanned with OKEN Scanner

BRACT's

# Vishwakarma College of Arts, Commerce and Science, Pune
## Time-Table ( Academic Year 2017-2018)
## M.Sc(computer Science)- II

**Hall No- Basement 103**

wef- 04/12/ 2017

| Day/Time | 7.30 -8.30 | 8.30 -9.30 | 9.30 - 10.0 | 10.00 -11.00 | 11.00 -12.00 | 12.00 -1.00 |
|---|---|---|---|---|---|---|
| **Monday** | DIP (SP) | AI (KK) | B | AOS (TG) | DMDW(VK) | |
| **Tuesday** | DIP (SP) | .NET (MP) | R | AI (KK) | DMDW(VK) | |
| **Wednesday** | DIP (SP) | AOS (TG) | E | AI (KK) | .NET (MP) | |
| **Thursday** | .NET (MP) | .NET (MP) | A | AOS (TG) | DMDW(VK) | Practical lab-I&II |
| **Friday** | DIP (SP) | AOS (TG) | K | DMDW(VK) | AI (KK) | |

SP- Swati Pujari
KK- Kavita Khoje
TG- Trupti Gaikwad
MP- Minal Patil
VK Vaishali Kale

**DIP** Digital Image Processing
**AI** Artificial Intelligence
**AOS** Adv. Operating System
**NET** Dot NET using C#
**DMDW** Data Mining and Data Warehousing

**Course Co-Ordinator**

**HOD**

Dr. Arun R. Patil
**PRINCIPAL**
Vishwakarma College of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048.

BRACT's

# Vishwakarma College of Arts, Commerce and Science

S. No. 3/4 Kondhwa (Bk.), Pune- 48

## Time Table for the Year 2017-18

## Class- FY B.Com

| Room No 109 | Class Teacher - Suvarna Shinde | | | | Date-13-11-2017 |

## Time Table

| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| 7:30-8:15 | E. Commerce- BJ  Mkt & Sales- KA | E. Commerce- BJ   Mkt & Sales- KA | Marathi-VM  Hindi-HD | Marathi-VM  Hindi-HD | CCA-DD  Maths - YH |
| 8:15-9:00 | E. Commerce- BJ  Mkt & Sales- KA | E. Commerce- BJ   Mkt & Sales- KA | Marathi-VM  Hindi-HD | Marathi-VM  Hindi-HD | CCA-DD  Maths - YH |
| 9:00 - 9:45 | Financial A/c-SS | Bank & Finance-JM | Compl. English - DJ | Busi. Economics - SS* | Compl. English - DJ |
| 9.45-10:15 | B    R    E    A    K | | | | |
| 10:15-11:00 | Compl. English - DJ | Busi. Economics - SS* | CCA-DD  Maths.- YH | Financial A/c-SS | Financial A/c-SS |
| 11:00-11:45 | Busi. Economics - SS* | Compl. English - DJ | Bank & Finance-JM | CCA-DD  Maths.- YH | Financial A/c-Practical  Lab II |
| 11:45-12:30 | Bank & Finance-JM | Financial A/c-SS | Busi. Economics - SS* | Bank & Finance-JM | |

| Name of Faculty | Subject | Name of Faculty | Subject |
|---|---|---|---|
| DJ Deepti Jakhalekar | Compulsory English | JM Jaykumar Misal | Banking & Finance |
| SS Swati Sathye | Financial Accounting | BJ Bhakti Joshi | Essentials of E-Commerce |
| SS* Suvarna Shinde | Bussiness Economics | KA Kirti Arge | Marketing & Salesmanship |
| YH Yashashri Harshe | Business Mathematics & Stats | HD Haishchandra Dhotre | Hindi |
| DD Deepali Dange | Computer Concept & App. | VM Vitthal Mhetre | Marathi |

PS Jadhav                    SSathye                    Anil

BRACT's

# Vishwakarma College of Arts, Commerce and Science

S. No. 3/4 Kondhwa (Bk.), Pune- 48

**Time Table for the Year 2017-18**

## Class- SY B.Com

| Room No 208 (VMI) | Class Teacher - Jaykumar Misal | | | Date-13-11-2017 | |
|---|---|---|---|---|---|
| **Time Table** | | | | | |
| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
| 7:30-8:15 | Bus. Adm. I-SM* C&W A/C I-PJ | Bus. Adm. I-SM* C&W A/C I-PJ | Bus.Comm -KA | B.Economics -JM | Bus.Mngt-MS |
| 8:15-9:00 | Bus. Adm. I-SM* C&W A/C I-PJ | Bus. Adm. I-SM* C&W A/C I-PJ | Company Law -GK | Cor .A/C-SS | B.Economics -JM |
| 9:00 - 9:45 | Company Law -GK | Cor .A/C-SS | B.Economics -JM | Company Law -GK | Cor .A/C-SS |
| 9.45-10:15 | B R E A K | | | | |
| 10:15-11:00 | Bus.Comm -KA | Bus.Mngt-MS | Cor .A/C-SS | Bus.Mngt-MS | Bus.Comm -KA |
| 11:00-11:45 | B.Economics -JM | Bus.Comm -KA | Bus.Mngt-MS | Evs - VK | Company Law -GK |
| 11:45-12:30 | | | | | Evs - VK |

**Faculties**
KA Kirti Arge
SS Swati Sathye
JM Jaykumar Misal
MS Madhuri Sawant

**Subject**
Business Communication
Corporate Accounting
Business Economics (Macro)
Business Management

**Faculties**
GK Geetanjali Kale
PJ Poonam Jadhav
SM Sunita Mahadik
VK Vaishali Kale

**Subject**
Elements of Company Law
Cost & Works Accounting I
Business Administration I
EVS

P. S. Jadhav

SSSathye
HOD

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
### Time Table for the Year 2017-18
## Class-TY B.Com

| Room No. 209 (VMII) | Class Teacher - Bhakti Joshi | | | Date-13-11-2017 | |
|---|---|---|---|---|---|

### Time Table

| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| 7:30-8:15 | BA-II - MS / C&W A/c II-GK | BA-II - MS / C&W A/c II-GK | BA-III-SM* C& W A/c III- BJ | BA-III-SM* C& W A/c III- BJ | Audit & Tax- PJ |
| 8:15-9:00 | BA-II - MS / C&W A/c II-GK | BA-II - MS / C&W A/c II-GK | BA-III-SM* C& W A/c III- BJ | BA-III-SM* C& W A/c III- BJ | Audit & Tax- PJ |
| 9:00 - 9:45 | IGE- JM | Adv. A/c.-GK | Adv. A/c.-GK | Audit & Tax- PJ | BRF- BJ |
| 9.45-10:15 | B R E A K | | | | |
| 10:15-11:00 | BRF- BJ | BRF- BJ | IGE- JM | Adv. A/c.-GK | IGE- JM |
| 11:00-11:45 | Audit & Tax- PJ | IGE- JM | BRF- BJ | Adv. A/c.-GK | |

| Faculties | Subject | Faculties | Subject |
|---|---|---|---|
| BJ Bhakti Joshi | Business Regulatory Fram. | GK Geetanjali Kale | Costing II |
| GK Geetanjali Kale | Advanced Accounting | BJ Bhakti Joshi | Costing III |
| JM Jaykumar Misal | Indi. Global Economics | MS Madhuri Sawant | Bus. Admin II |
| PJ Poonam Jadhav | Auditing & Taxation | SM Sunita Mahadik | Bus. Admin III |

P.S. Jadhav

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
## Time Table for the Year 2017-18
## Class- FY BBA

| Room No 208 | Class Teacher - Komal Dalnar | | | Date-21-11-2017 | |
|---|---|---|---|---|---|

| Time Table | | | | | |
|---|---|---|---|---|---|
| **Time** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| 7:30-8:15 | POF- JM | POMrkt-KD | POF- JM | B. Cost A\C- PJ | POF- JM |
| 8:15-9:00 | POMrkt-KD | Bus. Stat - RV | POMngt- SM | B. Cost A\C- PJ | POMngt- SM |
| 9:00 - 9:45 | POMngt- SM | POMngt- SM | POMrkt-KD | POF- JM | Bus. Stats- RV |
| 9.45-10:15 | B R E A K | | | | |
| 10:15-11:00 | Bus. Stat - RV | Bus. Inform- DD | B. Cost A\C- PJ | Bus. Inform- DD | Bus. Inform- DD |
| 11:00-11:45 | Bus. Inform- DD | B. Cost A\C- PJ | Bus. Stats- RV | POMrkt-KD | |

**Faculties**
SM Shital Mantri
KD Komal Dalnar
RV Ruta Vaidya

**Subject**
Principles of Mgmt.
Principles of Marketing
Business Statistics

**Faculties**
JM Jaykumar Misal
PJ Poonam Jadhav
DD Deepali Dange

**Subject**
Principle of Finance
Basics of Cost Accounting
Business Informatics

## Time Table for the Year 2017-18

### Class- SY BBA

| Room No. 206 | Class Teacher - Kirti Arge | | | Date-21-11-2017 | |
|---|---|---|---|---|---|
| **Time Table** | | | | | |
| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
| 11.45-12.30 | P&OM - MS | Bus. Tax- PJ | MIS - VK | IR&LL - SM | P&OM - MS |
| 12:30-01:15 | IR&LL - SM | IR&LL - SM | Bus. Tax- PJ | P&OM - MS | IR&LL - SM |
| 01:15-02:00 | International Bus. - SS* | International Bus. - SS* | Bus. Tax- PJ | International Bus. - SS* | Bus. Tax- PJ |
| 02:00-02:30 | B R E A K | | | | |
| 02:30-03:15 | MIS - VK | MIS - VK | P&OM - MS | MIS - VK | International Bus. - SS* |
| 03:15-04:00 | Bus. Expor - SM* | Bus. Expor - SM* | Bus. Expor - SM* | Bus. Expor - SM* | |

**Faculties**
MS Madhuri Sawant
SM Shital Mantri
SS* Suvarna Shinde

**Subject**
Prod. & Opers Mgmt.
Ind. Rel. & Labour Law
International Bus.

**Faculties**
PJ Poonam Jadhav
VK Vaishali Kale
SM* Suneeta Mahadik

**Subject**
Business Taxation
Mgmt. Info System
Bus. Exposure
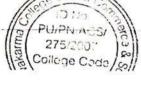
Coordinator

HOD

Principal

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
Time Table for the Year 2017-18

## Class- TY BBA

| Room No 110 | Class Teacher - Sunita Mahadik | | | Date-21-11-2017 |
|---|---|---|---|---|

### Time Table

| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| 11.45-12.30 | EM -KD | BPPM - SM* | MCS - SM | EM -KD | E-Commerce - KA |
| 12:30-01:15 | BPPM - SM* | Sp. Paper III<br>Fin- GK<br>HRM- KD | Sp. Paper IV<br>Fin- BJ<br>HRM- SM* | Sp. Paper IV<br>Fin- BJ<br>HRM- SM* | Sp. Paper III<br>Fin- GK<br>HRM- KD |
| 01:15-02:00 | BPPM - SM* | Sp. Paper III<br>Fin- GK<br>HRM- KD | Sp. Paper IV<br>Fin- BJ<br>HRM- SM* | Sp. Paper IV<br>Fin- BJ<br>HRM- SM* | Sp. Paper III<br>Fin- GK<br>HRM- KD |
| 02:00-02:30 | B R E A K | | | | |
| 02:30-03:15 | E-Commerce - KA | EM -KD | E-Commerce - KA | MCS - SM | BPPM - SM* |
| 03:15-04:00 | MCS - SM | MCS - SM | EM -KD | E-Commerce - KA | |

| Name of Faculty | Subject | Name of Faculty | Subject |
|---|---|---|---|
| SM* Suneeta Mahadik | Bus. Plan. & Project Mgmt | KD Komal Dalnar | Event Mgmt |
| SM Shital Mantri | Mgmt. Control System | KA Kirti Arge | E- Commerce |
| KD Komal Dalnar | Labour Laws (HRM III) | GK Geetanjali Kale | Financial Services(Finance III) |
| SM* Suneeta Mahadik | Cases & Project HRM ( HRM IV) | BJ Bhakti Joshi | Cases & Project Finance ( Finance IV) |

Coordinator

HOD

Principal

BRACT's

# Vishwakarma College of Arts, Commerce and Science

S. No. 3/4 Kondhwa (Bk.), Pune- 48

## Time Table for the Year 2017-18

## Class- FY BBA(IB)

| Room No B-105 | Class Teacher - Geetanjali Kale | | | | Date-21-11-2017 |
|---|---|---|---|---|---|
| **Time Table** | | | | | |
| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
| 7:30-8:15 | IT in B. Oper -DD | Macro Eco. Ana. - JM | Cost A/c- GK | Cost A/c- GK | Cost A/c- GK |
| 8:15-9:00 | Macro Eco. Ana. - JM | Ele. Of HRM- SM | Macro Eco. Ana. - JM | Macro Eco. Ana. - JM | Cost A/c- GK |
| 9:00 - 9:45 | Bus. Stat - RV | Bus. Stat - RV | Ele. Of HRM- SM | Ele. Of HRM- SM | IT in B. Oper -DD |
| 9.45-10:15 | B R E A K | | | | |
| 10:15-11:00 | Ele. Of HRM- SM | Prin. Of Mrkt - KA | Prin. Of Mrkt - KA | Bus. Stat - RV | Bus. Stat - RV |
| 11:00-11:45 | Prin. Of Mrkt - KA | IT in B. Oper -DD | IT in B. Oper -DD | Prin. Of Mrkt - KA | |

| Faculties | | Subject | Faculties | | Subject |
|---|---|---|---|---|---|
| SM | Shital Mantri | Elements of HRM | JM | Jaykumar Misal | Macro Eco. Analysis |
| KA | Kirti Arge | Principles of Mark. | GK | Geetanjali Kale | Cost Accounting |
| RV | Ruta Vaidya | Business Statistics | DD | Deepali Dange | IT in B. Operations |

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
## Time Table for the Year 2017-18
## Class- SY BBA(IB)

| Room No B-102 | Class Teacher - Madhuri Sawant | | | Date-21-11-2017 | |
|---|---|---|---|---|---|
| | | | Time Table | | |
| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
| 11.45-12.30 | Bus. Tax- BJ | German - SN | German - SN | Int. bus. Service Sec.- MS | Int. Agri Bus.- KD |
| 12:30-01:15 | FE Operations -SS | German - SN | German - SN | FE Operations -SS | Bus. Tax- BJ |
| 01:15-02:00 | Int. Agri Bus.- KD | Bus. Tax- BJ | FE Operations -SS | Int. Agri Bus.- KD | Bus. Tax- BJ |
| 02:00-02:30 | B R E A K | | | | |
| 02:30-03:15 | Int. bus. Service Sec.- MS | FE Operations -SS | Int. Agri Bus.- KD | Bus. Expor - KD | Bus. Expor - KD |
| 03:15-04:00 | Bus. Expor - KD | Int. bus. Service Sec.- MS | Int. bus. Service Sec.- MS | Bus. Expor - KD | |

**Faculties**
MS Madhuri Sawant
KD Komal Dalnar
BK Bhakti Joshi
SN Sumitra Nahar
SS* Suvarna Shinde
KD Komal Dalnar

**Subject**
International Business In Service Sector
International Agri. Business
Bus. Taxation
German
Foreign Exchange Operations
Business Exposure

Scanned with OKEN Scanner

BRACT's
## Vishwakarma College of Arts,Commerce and Science
### Time -Table 2017-18

w.e.f.-21-16-11-2017

**FYBBA (CA) Sem II**          **Hall No-109**

| Day/Time | 10.00-12.15 | 12.30-1.15 | 1.15-2.00 | | 2.30 - 3.15 | 3.15 -4.00 |
|---|---|---|---|---|---|---|
| Monday | | OB(KA) | C(SS*) | | DBMS(VT) | Stat (YH) |
| Tuesday | | OB(KA) | ECOM (MS) | | Stat (YH) | DBMS(VT) |
| Wenesday | C- Pr(Lab I) B3 MN, DBMS PR (Lab 3) B2 PK | OB(KA) | C(SS*) | BREAK | Stat (YH) | DBMS(VT) |
| Thrusday | C- Pr(Lab I) B1 MN, DBMS PR (Lab 3) B3 PK | OB(KA) | ECOM (MS) | | C(SS*) | ECOM (MS) |
| Friday | C- Pr(Lab I) B2 PS, DBMS PR (Lab 3) B1 PK | DBMS(VT) | ECOM (MS) | | Stat (YH) | C(SS*) |

| | Faculties | | Subject Name |
|---|---|---|---|
| SS | Sunila Shivtare | | C -C Programming |
| VT | Varsha Thakare | | DBMS - Database Management System |
| KA | Kiurti Arge | | OB - Organizational Behaviour |
| MS | Madhuri Sawant | | ECOM - Ecommerce |
| YH | Yashshri Harshe | | Stat - Conputer Applications in statistics |
| PK | Pranjali Kubde | | DBMS Practical |
| PS+MN | Vaishali Kale | | C Practical |

**Coordinator**          **HOD**          **Principal**

## BRACT's
## Vishwakarma College of Arts,Commerce and Science
### Time -Table 2017-18

**Hall No : VMI 208**

w.e.f.-21-11-2017

### SYBBA (CA)(Sem IV)

| Day/Time | 12.30 - 1.15 | 1.15 - 2.00 | 2.00 - 2.30 | 2.30 - 3.15 | 3.15 - 4.00 | 4.00 -6.15 |
|----------|--------------|-------------|-------------|-------------|-------------|------------|
| Monday | ERP (DD) | VB (AP) | BREAK | HRM (KD) | CPP (SW) | CPP Pr(Lab V) B2 SW |
| Tuesday | ERP (DD) | CN (VK) | | CPP (SW) | HRM (KD) | CPP Pr(Lab V) B3 SW , VB Pr(Lab II)B2 DD |
| Wenesday | ERP (DD) | HRM (KD) | | CN (VK) | VB (AP) | VB Pr(Lab II)B1 DD |
| Thrusday | ERP (DD) | CN (VK) | | VB (AP) | CPP (SW) | VB Pr(Lab II) B3 DD |
| Friday | CPP (SW) | CN (VK) | | VB (AP) | HRM (KD) | CPP Pr(Lab V)B1 SW |

**Faculties**
AP: Anjum Patel
SW : Sonali Walekar
VK: Vaishali Kale
DD: Deepali Dange
KD: Komal Dalnar
SW: Sonali Walekar
DD: Deepali Dange

Coordinator

**Subject**
VB-Visual Basic
CPP: Object Oriented Programming using C++
CN- Computer Networks
ERP- Enterprise Resource Planning
HRM- Human Resource Management
CPP - Practical
VB Practical

HOD

Principal

## BRACT's
## Vishwakarma College of Arts, Commerce and Science
### Time -Table 2017-18

Hall No : Basement - 103

w.e.f.- 21-11-2017

### TYBBA (CA) (Sem VI)

| Day/Time | 9.30 - 12.00 | 12.30 - 1.15 | 1.15 - 2.00 | 2.00 - 2.30 | 2.30 - 3.15 | 3.15 -4.00 | 4.00 - 4.45/ 4.45 - 5.30 |
|---|---|---|---|---|---|---|---|
| Monday | Java Pr(Lab I)B2 SP | Java (SP) | IT (RT) | B | WEB (PK) | Project | |
| Tuesday | WEB Pr(Lab I) B1 PK | Java (SP) | WEB (PK) | R | IT (RT) | ST (SD) | Project |
| Wenesday | | Java (SP) | ST (SD) | E | IT (RT) | Project | |
| Thrusday | | Java (SP) | WEB (PK) | A | ST (SD) | Project | |
| Friday | Java Pr(Lab V)B1 SP, | WEB (PK) | ST (SD) | K | IT (RT) | (3.00 - 5.30 )WEB Pr(Lab III) B2  PK | |

**Faculties**
SP -Swati Pujari/Patil
RT: Rupali Taware
PK - Pranjali Kubde
SD -Smita Deshmukh
PP: Prajkta Patil

**Subject**
Java-Ad. Java
IT -Recent Trends in IT
WEB -Ad. Web Technology
ST : Software Testing
Project

Coordinator

HOD

Principal

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
## Time Table for the Year 2017-18
## Class- FY BBA(IB)

| Room No B-105 | Class Teacher - Geetanjali Kale | | | | Date-01-07-2017 |
|---|---|---|---|---|---|
| **Time Table** | | | | | |
| **Time** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| 7.30-8.15 | Bus. Maths- YH | Bus. Maths- YH | Micro Eco. Ana. - JM | Busi. A/c- GK | Busi. A/c- GK |
| 8.15-9.00 | Bus. Maths- YH | P&POM- SM | P&POM- SM | P&POM- SM | Busi. A/c- GK |
| 9:00 - 9:45 | P&POM- SM | I. Bus. Env - MS | I. Bus. Env - MS | Micro Eco. Ana. - JM | I. Bus. Env - MS |
| 9.45-10:00 | B R E A K | | | | |
| 10.00-10.45 | I. Bus. Env - MS | Micro Eco. Ana. - JM | Busi. A/c- GK | Bus. Maths- YH | Micro Eco. Ana. - JM |
| 10:45-11:30 | Comm. Skills & PD - SL | Comm. Skills & PD - SL | Comm. Skills & PD - SL | Comm. Skills & PD - SL | |

| Faculties | Subject |
|---|---|
| MS Madhuri Sawant | Indian Business Environment |
| SL Somprakash Lokhande | Communication Skills & Personality Development |
| JM Jaykumar Misal | Micro Economic Analysis |
| GK Geetanjali Kale | Business Accounting |
| SM Shital Mantri | Principles & Practice of Management |
| YH Yashashri Harshe | Business Mathematics. |

Coordinator

HOD

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts
Commerce & Science
Kondhwa(Bk), Pune - 411 048.
Principal

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
## Time Table for the Year 2017-18
## Class- SY BBA(IB)

| Room No B-104 | Class Teacher - Madhuri Sawant | | | | Date-01-07-2017 |
|---|---|---|---|---|---|
| **Time Table** | | | | | |
| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
| 11:00-11:45 | | German- YM | | German- YM | |
| 11.45-12.30 | P&OM- MS | German- YM | Mngt A/C- BJ | German- YM | P&OM- MS |
| 12:30-01:15 | Mngt A/C- BJ | Inter. Econ - SS* | Mngt A/C- BJ | P&OM- MS | Inter. Econ - SS* |
| 01:15-02:00 | Inter. Bus. Env - KD | Inter. Mrkt- KA | P&OM- MS | Inter. Bus. Env - KD | Inter. Mrkt- KA |
| 02:00-02:15 | B R E A K | | | | |
| 02:15-03:00 | Inter. Econ - SS* | Mngt A/C- BJ | Inter. Econ - SS* | Inter. Mrkt- KA | Inter. Bus. Env - KD |
| 03:00-03:45 | Inter. Mrkt- KA | | Inter. Bus. Env - KD | | |

**Faculties**    **Subject**

KD Komal Dalnar — International Business Environment
MS Madhuri Sawant — Production & Operations Management
SS* Suvarna Shinde — International Economics
KA Kirti Arge — International Marketing
YM Yugandhara More — German
BK Bhakti Joshi — Management Accounting
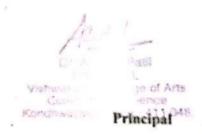
Coordinator

HOD

Principal

Scanned with OKEN Scanner

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
## Time Table for the Year 2017-18
## Class- FY BBA

| Room No 208 | Class Teacher - Komal Dalnar | | | Date-01-07-2017 | |
|---|---|---|---|---|---|
| | | **Time Table** | | | |
| **Time** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| 7.30-8.15 | Busi. A/c- SS | Bus. Eco.- JM | Bus. Maths- YH | Bus. Maths- YH | Bus. Eco.- JM |
| 8.15-9.00 | Bus. Eco.- JM | B.De&Env.St- KD | Bus. Maths- YH | Bus. Eco.- JM | B.De&Env.St- KD |
| 9:00 - 9:45 | B.De&Env.St- KD | B.Org&Systems- SM | Busi. A/c- SS | Busi. A/c- SS | B.Org&Systems- SM |
| 9.45-10:00 | B R E A K | | | | |
| 10.00-10.45 | Comm. Skills- SL | Comm. Skills- SL | Comm. Skills- SL | Comm. Skills- SL | Bus. Maths- YH |
| 10:45-11:30 | B.Org&Systems- SM | Busi. A/c- SS | B.Org&Systems- SM | B.De&Env.St- KD | |

| **Faculties** | | **Subject** |
|---|---|---|
| SM | Shital Mantri | Business Organization and System |
| SL | Somprakash Lokhande | Business Communication Skills |
| SS | Swati Sathye | Business Accounting |
| JM | Jaykumar Misal | Business Economics (Micro) |
| YH | Yashashri Harshe | Business Mathematics |
| KD | Komal Dalnar | Business Demography and Environmental Studies |

**Coordinator**

**HOD**

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of
Commerce & Scien
Kondhwa(Bk.) Pune - 4
**Principal**

Scanned with OKEN Scanner

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
Time Table for the Year 2017-18

## Class- SY BBA

| Room No. 206 | Class Teacher - Kirti Arge | | | Date-01-07-2017 | |
|---|---|---|---|---|---|
| **Time Table** | | | | | |
| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
| 11.45-12.30 | Mngt A/C- PJ | Mngt A/C- PJ | HRM & OB- KD | Mngt A/C- PJ | HRM & OB- KD |
| 12:30-01:15 | Bus. Ethics- SM* | Bus. Ethics- SM* | P.Develot-KA | Bus. Economics-SS* | Mngt A/C- PJ |
| 01:15-02:00 | Bus. Economics-SS* | It in Mgt- DD | Bus. Economics-SS* | It in Mgt- DD | It in Mgt- DD |
| 02:00-02:15 | B R E A K | | | | |
| 02:15-03:00 | P.Develot-KA | HRM & OB- KD | P.Develot-KA | Bus. Ethics- SM* | Bus. Economics-SS* |
| 03:00-03:45 | HRM & OB- KD | It in Mgt- DD | Bus. Ethics- SM* | P.Develot-KA | |

| **Name of Faculty** | **Subject** |
|---|---|
| KA Kirti Arge | Personality Development |
| SM* Sunita Mahadik | Business Ethics |
| KD Komal Dalnar | Human Resource Management and Organization Behaviour |
| PJ Poonam Jadhav | Management Accounting |
| SS* Suvarna Shinde | Business Economics (Macro) |
| DD Deepali Dange | I.T. in Management |

Coordinator

HOD

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma **Principal** of Arts
Commerce
Kondhwa(Bk.), Pune - 411 048.

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
## Time Table for the Year 2017-18
## Class- TY BBA

| Room No 110 | Class Teacher - Sunita Mahadik | | | | |
|---|---|---|---|---|---|

Date-01-07-2017

## Time Table

| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| 11.45-12.30 | Busi. Law- KD | R. Method.- SM | E. Develpt- SM* | S & C Logist. - MS | R. Method.- SM |
| 12:30-01:15 | S & C Logist. - MS | Sp. Paper II Fin- BJ HRM- KD | Sp. Paper I Fin- PJ HRM- SM | Sp. Paper I Fin- PJ HRM- SM | Sp. Paper II Fin- BJ HRM- KD |
| 01:15-02:00 | E. Develpt- SM* | Sp. Paper II Fin- BJ HRM- KD | Sp. Paper I Fin- PJ HRM- SM | Sp. Paper I Fin- PJ HRM- SM | Sp. Paper II Fin- BJ HRM- KD |
| 02:00-02:15 | B R E A K | | | | |
| 02:15-03:00 | R. Method.- SM | E. Develpt- SM* | Busi. Law- KD | Busi. Law- KD | S & C Logist. - MS |
| 03:00-03:45 | R. Method.- SM | Busi. Law- KD | S & C Logist. - MS | E. Develpt- SM* | |

| Name of Faculty | Subject |
|---|---|
| MS Madhuri Sawant | Supply Chain and Logistics Management |
| SM* Sunita Mahdik | Entrepreneurship Development |
| KD Komal Dalnar | Business Law |
| SM Shital Mantri | Research Methodology ( Tools and Analysis) |
| SM Shital Mantri | Human Resource Management Principles and Functions (HRM I) |
| KD Komal Dalnar | Human Resource Practices (HRM II) |
| PJ Poonam Jadhav | Financial Statement Analysis (Finance I) |
| BJ Bhakti Joshi | Long Term Finance (Finance II) |

Coordinator

HOD

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts
Commerce **Principal**
Kondhwa(Bk.), Pune - 411 048.

BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48
Time Table for the Year 2017-18

## Class- FY B.Com

| Room No 109 | Class Teacher - Suvarna Shinde | | | | Date-01-07-2017 |

### Time Table

| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|------|--------|---------|-----------|----------|--------|
| 7.30-8.15 | E. Commerce- BJ<br>Mkt & Sales- KA | E. Commerce- BJ    Mkt &<br>Sales- KA | Marathi-LH<br>Hindi-HD | Marathi-LH<br>Hindi-HD | CCA-DD<br>Maths.- YH |
| 8.15-9.00 | E. Commerce- BJ<br>Mkt & Sales- KA | E. Commerce- BJ    Mkt &<br>Sales- KA | Marathi-LH<br>Hindi-HD | Marathi-LH<br>Hindi-HD | CCA-DD<br>Maths.- YH |
| 9:00 - 9:45 | Financial A/c-SS | Bank & Finance-JM | Compl. English - DJ | Busi. Economics - SS* | Compl. English - DJ |
| 9.45-10:00 | B R E A K | | | | |
| 10.00-10.45 | Compl. English - DJ | Busi. Economics - SS* | CCA-DD<br>Maths.- YH | Financial A/c-SS | Financial A/c-SS |
| 10:45-11:30 | Busi. Economics - SS* | Compl. English - DJ | Bank.& Finance-JM | CCA-DD<br>Maths.- YH | Financial A/c-Practical<br>Lab II |
| 11:30-12:15 | Bank.& Finance-JM | Financial A/c-SS | Busi. Economics - SS* | Bank.& Finance-JM | |

| Name of Faculty | Subject |
|-----------------|---------|
| DJ Deepti Jakhalekar | Compulsory English |
| SS Swati Sathye | Financial Accounting |
| SS* Suvarna Shinde | Bussiness Economics |
| YH Yashashri Harshe | Business Mathematics & Stats |
| DD Deepali Dange | Computer Concept & App. |

| Name of Faculty | Subject |
|-----------------|---------|
| JM Jaykumar Misal | Banking & Finance |
| BJ Bhakti Joshi | Essentials of E-Commerce |
| KA Kirti Arge | Marketing & Salesmanship |
| HD Haishchandra Dhotre | Hindi |
| LH Laxman Hakke | Marathi |

P.S.Jadhav
**Coordinator**

ofathye
**HOD**

Aptil.
Dr. Arun R. Patil
PRINCIPAL **Principal**
Vishwakarma College of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048.

## Class- SY B.Com

| Room No 208 (VMI) | **Class Teacher - Jaykumar Misal** | | | Date-01-07-2017 | |
|---|---|---|---|---|---|

### Time Table

| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| 7.30-8.15 | Bus. Adm. I-SM* C&W A/C I-PJ | Bus. Adm. I-SM* C&W A/C I-PJ | Company Law -GK | Cor .A/C-SS | Cor .A/C-SS |
| 8.15-9.00 | Bus. Adm. I-SM* C&W A/C I-PJ | Bus. Adm. I-SM* C&W A/C I-PJ | Bus.Comm -KA | Bus.Mngt-MS | Bus.Mngt-MS |
| 9:00 - 9:45 | Bus.Comm -KA | Cor .A/C-SS | B.Economics -JM | Company Law -GK | B.Economics -JM |
| 9.45-10:00 | | | 0 | | |
| 10.00-10.45 | Company Law -GK | Bus.Comm -KA | Cor .A/C-SS | B.Economics -JM | Bus.Comm -KA |
| 10:45-11:30 | B.Economics -JM | Bus.Mngt-MS | Bus.Mngt-MS | Evs - VK | Company Law -GK |
| 11:30-12:15 | | | | | Evs - VK |

| **Faculties** | **Subject** | **Faculties** | **Subject** |
|---|---|---|---|
| KA Kirti Arge | Business Communication | GK Geetanjali Kale | Elements of Company Law |
| SS Swati Sathye | Corporate Accounting | PJ Poonam Jadhav | Cost & Works Accounting I |
| JM Jaykumar Misal | Business Economics (Macro) | SM Sunita Mahadik | Business Administration I |
| MS Madhuri Sawant | Business Management | VK Vaishali Kale | EVS |

P.S. Jadhav
**Coordinator**

**HOD**

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts
Commerce & Science
**Principal**
Kondhwa(Bk.), Pune - 411 048.

## BRACT's
# Vishwakarma College of Arts, Commerce and Science
S. No. 3/4 Kondhwa (Bk.), Pune- 48

## Time Table for the Year 2017-18

## Class-TY B.Com

| Room No. 203(VMI) | Class Teacher - Bhakti Joshi | | | Date-01-07-2017 | |
|---|---|---|---|---|---|
| **Time Table** | | | | | |
| **Time** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| 7.30-8.15 | BA-II - MS / C&W A/c II-GK | BA-II - MS / C&W A/c II-GK | BA-III-SM* C& W A/c III- BJ | BA-III-SM* C& W A/c III- BJ | Audit & Tax- PJ |
| 8.15-9.00 | BA-II - MS / C&W A/c II-GK | BA-II - MS / C&W A/c II-GK | BA-III-SM* C& W A/c III- BJ | BA-III-SM* C& W A/c III- BJ | IGE- JM |
| 9:00 - 9:45 | IGE- JM | Adv. A/c.-GK | Adv. A/c.-GK | Audit & Tax- PJ | BRF- BJ |
| 9.45-10:00 | B R E A K | | | | |
| 10.00-10.45 | Audit & Tax- PJ | Audit & Tax- PJ | IGE- JM | Adv. A/c.-GK | Adv. A/c.-GK |
| 10:45-11:30 | BRF- BJ | IGE- JM | BRF- BJ | BRF- BJ | |

| Faculties | Subject | Faculties | Subject |
|---|---|---|---|
| **BJ** Bhakti Joshi | Business Regulatory Fram. | **GK** Geetanjali Kale | Costing II |
| **GK** Geetanjali Kale | Advanced Accounting | **BJ** Bhakti Joshi | Costing III |
| **JM** Jaykumar Misal | Indi. Global Economics | **MS** Madhuri Sawant | Bus. Admin II |
| **PJ** Poonam Jadhav | Auditing & Taxation | **SM** Sunita Mahadik | Bus. Admin III |

P. S. Jadhav
**Coordinator**

**HOD**

Dr. Arun R. Patil
**Principal**
Vishwakarma College of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048.

BRACT'S
# Vishwakarma College of Arts,Commerce and Science
## Time -Table 2017- 18
### FY BSC (Computer Sci)

**Hall No : 108**

w.e.f. 1/7/2017

### Div - A

| Day/Time | 9.00 to 11.30 | 11:45 to 12:30 | 12:30 to 1:15 | 1.15 - 1.30 | 1.30 to 2.15 | 2.15 to 3.00 | 3.00 - 3.45 | 3.45 - 6.00 |
|---|---|---|---|---|---|---|---|---|
| Monday | | M1(SK*) | S1 (RV) | | E2 (PC) | M2(PB) | E1 (SK) | B1-C1 (Lab IV) MN, B3 - C2 (Lab I) TG |
| Tuesday | B1-Ele (Ele Lab) KY | C1 (MN) | M1(SK*) | | S2 (RV) | E1 (SK) | C2 (AB) | B3-C1 (Lab IV) MN |
| Wenesday | | C2 (AB) | S1 (RV) | BREAK | M2(PB) | S1 (RV) | E2 (PC) | B2- C1 (Lab IV) MN, B1 - C2 ( Lab III) S |
| Thrusday | | Math Practical (SK*) | C1 (MN) | | E1 (SK) | S2 (RV) | S2 (RV) | B2 - C2 (Lab III) TG , B3-Ele(Ele Lab) KY |

| Day/Time | 9.00 to 11.30 | 11:45 to 12:30 | 12:30 to 1:15 | | 1.30 to 2.15 | 2.15 to 3.00 | 3.00 - 3.45 | 3.45 - 4.30 |
|---|---|---|---|---|---|---|---|---|
| Friday | B2-Ele (Ele Lab) KY | M1(SK*) | C2 (AB) | | M2(PB) | C1 (MN) | E2 (PC) | STAT Practical (RV) |

### Subjects

- **CS1:** Problem Solving using Computer And C Language
- **CS2:** file Organisation and Fundamental of Database
- **E1:** Principles of Analog Electronics
- **E2:** Principles of Digital Electronics
- **M1:** Discrete Mathematics
- **M2:** Algebra and Calculus
- **S1:** Statistics Method-I
- **S2:** Statistics Method-II
- **CS1: Practicals**
- **CS2: Practicals**

**Electronics Practicals**

### Faculties

- MN: Mohini Nikam
- AB: Anita Bankar
- SK: Sameer Khole
- PC : Poonam Chavan
- SK* : Snehal Kulkarni
- PB: Prajakta Bhalerao
- RV: Ruta Vaidya
- RV: Ruta Vaidya
- MN: Mohini Nikam
- TG: Trupti Gaikwad

**Coordinator**

**HOD**

**Principal** of Arts
Vishwakarma College of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048.

**Hall No : 208**     **Div - B**

| Day/Time | 11:45 to 12:30 | 12:30 to 1:15 | 1.15 - 1.30 | 1.30 to 2.15 | 2.15 to 3.00 | 3.00 - 3.45 | 3.45 - 6.00 |
|---|---|---|---|---|---|---|---|
| Monday | M2(PB) | C1 (MN) | B | M1(SK*) | S1 (RV) | STAT Practical | B6-C I (Lab V) SS*, B4- Elec (Ele Lab) KY , B5 - CS II - (Lab III) SD |
| Tuesday | M1(SK*) | E1 (PC) | R | E2 (KY) | C2 (AB) | S2 (RV) | B4-CII (Lab III) SD , B6 - ELC (Ele Lab) PC |
| Wenesday | Mah Practical (PB) | C2 (AB) | E | M1(SK*) | E2 (KY) | C1 (MN) | B5- Elec (Ele Lab) KY |
| Thrusday | S1 (RV) | S2 (RV) | A | C1 (MN) | E1 (PC) | M2(PB) | B4 - C1-(Lab IV) MN, B5- C1-(Lab I)- SS*, B6 - C II -(Lab I) SD |
| Day/Time | 11:45 to 12:30 | 12:30 to 1:15 | 1.15 - 1.30 | 1.30 to 2.15 | 2.15 to 3.00 | 3.00 - 3.45 | 3.45 - 4.30 | |
| Friday | C2 (AB) | E1 (PC) | K | S1 (RV) | S2 (RV) | M2(PB) | E2 (KY) | |

### Subjects

| | |
|---|---|
| CS1: | Problem Solving using Computer And C Language |
| CS2: | file Organisation and Fundamental of Database |
| E1: | Principles of Analog Electronics |
| E2: | Principles of Digital Electronics |
| M1: | Discrete Mathematics |
| M2: | Algebra and Calculus |
| S1: | Statistics Method-I |
| S2: | Statistics Method-II |

CS1: Practicals

CS2: Practicals

Electronics Practicals

### Faculties

MN: Mohini Nikam

AB: Anita Bankar

PC : Poonam Chavan

KY: Komal Yadav

SK*: Snehal Kulkarni

PB: Prajakta Bhalerao

RV: Ruta Vaidya

RV: Ruta Vaidya

MN: Mohini Nikam + SS*: Sunila Shivtare

SD: Smita Deshmukh

**Coordinator**     **HOD**

Dr. Arun R. Patil
PRINCIPAL     **Principal**
Vishwakarma College of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048048.

BRACT's
## Vishwakarma College of Arts,Commerce and Science
### Time -Table 2017-18
SYBSC(Computer Sci)   SEM I        w.e.f.-1/7/2017
Div A

**Hall No : 203(VMI)**

| Day/Time | 9.00 TO 11.30 | 11:45 - 12:30 | 12:30 - 1:15 | 1:15 to 1:30 | 1:30-2:15 | 2:15-3:00 | 3:00-3:45 | 3.45 - 4.30 |
|---|---|---|---|---|---|---|---|---|
| Monday | B1-DS(Lab V) VP, B3-Math(Lab 2) C, B2-RDBMS(Lab 3) PS | E2 (SK) | M2 (PB) | BREAK | Eng (DJ) | E1 (PC) | M1(SK*) | M1(SK*) |
| Tuesday | B2-DS(Lab V) TG , B1-Math(Lab 2) PB, B3- RDBMS (Lab 3) PS | E1 (PC) | M2 (PB) | | E2 (SK) | C2(PP) | Eng (DJ) | C1 (TG) |
| Wednesday | B3-DS(Lab V) VP, B1-Elc(PC) | C2(PP) | Eng (DJ) | | E1 (PC) | C1 (TG) | E2 (SK) | M2 (PB) |
| Thrusday | B1- RDBMS(Lab 3) PS, B2- Elc(PC) | C1 (TG) | E1 (PC) | | C2(PP) | M2 (PB) | M1(SK*) | |
| Friday | B2 - Math (Lab 2) SK*, B3 - Elc(SK) | C1 (TG) | C2(PP) | | M1(SK*) | Eng (DJ) | E2 (SK) | |

| Subjects | | Faculties |
|---|---|---|
| CS1: | Data Structure | TG: Trupti Gaikwad |
| CS2: | RDBMS | PP : Prajkta Patil |
| E1: | Digital System Hardware | PC : Poonam Chavan |
| E2: | Analog Systems | SK: Sameer Khole |
| M1: | Applied Algebra | SK*: Snehal Kulkarni |
| M2: | Numerical Analysis | PB: Prajakta Bhalerao |
| Eng | English | DJ: Deepti Jakhalekar |
| | RDBMD Practical | PP : Prajkta Patil + PS : Prajakta Shrungarpure |
| | DS Practical | TG: Trupti Gaikwad +VP: Vijaya Pise |

**Course Coordinator**

**HOD**

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts
Comm
Kondhwa(Bk.), Pune - 411 048.

**PRINCIPAL**

Scanned with OKEN Scanner

BRACT's
# Vishwakarma College of Arts,Commerce and Science
## Time -Table 2017-18
### SYBSC(Computer Sci)     SEM I          w.e.f.-1/7/2017
### Div B

**Hall No : B-105**

| Day/Time | 9.00 TO 11.30 | 11:45 - 12:30 | 12:30 - 1:15 | 1:15 to 1:30 | 1:30-2:15 | 2:15-3:00 | 3:00-3:45 | 3.45 - 4.30 |
|---|---|---|---|---|---|---|---|---|
| Monday | B4-Math(Lab 4) SK*, B5 - Elec(SK) | C2(PP) | C2(PP) | | E2 (SK) | Eng (DJ) | E1(KY) | M2 (PB) |
| Tuesday | B5-Math(Lab 4) C, B6 - Elc(SK) | C1(SS*) | E2 (SK) | | Eng (DJ) | M1(SK*) | E1(KY) | M2 (PB) |
| Wednesday | B4-DS(Lab 2) TG,B5-RDBMS(Lab 4) PS, B6 - RDBMS (Lab 3) PP | E2 (SK) | M1(SK*) | BREAK | C1(SS*) | C2(PP) | Eng (DJ) | E1(KY) |
| Thrusday | B5-DS(Lab V) VP, B6-Math(Lab 2) PB , B4 - RDBMS(Lab 4) PP | C1(SS*) | M2 (PB) | | M1(SK*) | E2 (SK) | E1(KY) | |
| Friday | B6- DS (Lab 4) TG | M2 (PB) | M1(SK*) | | C2(PP) | C1(SS*) | Eng (DJ) | B4 - Elc (PC) - 3:45 to 6:00 pm |

## Subjects

**CS1:** Data Structure
**CS2:** RDBMS
**E1:** Digital System Hardware
**E2:** Analog Systems
**M1:** Applied Algebra
**M2:** Numerical Analysis
**Eng** English
RDBMD Practical
DS Practical

**Coordinator**

## Faculties

SS*: Sunila Shivtare
PP : Prajkta Patil
KY: Komal Yadav
SK: Sameer Khole
SK*: Snehal Kulkarni
PB: Prajakta Bhalerao
DJ: Deepti Jakhalekar
PP: Prajakta Patil + PS : Prajakta Shrungarpure
TG: Trupti Gailwad + SW: Sonali Walekar

**HOD**

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts
Commerce & Science
Kondhwa(bk) Pune - 411 048
**Principal**

## BRACT's
## Vishwakarma College of Arts, Commerce and Science
## Time -Table 2017-18
### TYBSC (Comp. Sci)    SEM III

w. e.f.-1/7/2017

### Hall No : 207(VMI)

| Day/Time | 7.30 - 8.15 | 8.15- 9.00 | 9.00 - 9.15 | 9.15 - 10.00 | 10.00 - 10.45 | 10.45- 11.30 | 11.30- 2.30 |
|---|---|---|---|---|---|---|---|
| Monday | TCS (PP) | Java (VR) | B | SysPro(MP) | IP (KK) | CN (VK) | B1-(Lab 3) KK, B2-(Lab V) MP, B3-(Lab 4) VR |
| Tuesday | TCS (PP) | SysPro(MP) | R | Java (VR) | IP (KK) | OOSE (AP) | B2-(Lab 3) KK, B1-(Lab V) MP, B4-(Lab 4) VR |
| Wednesday | TCS (PP) | SysPro(MP) | E | OOSE (AP) | IP (KK) | CN (VK) | B3-(Lab 3) KK, B4-(Lab V) MP, B1-(Lab 4) VR |
| Thrusday | SysPro(MP) | IP (KK) | AK | Java (VR) | CN (VK) | OOSE (AP) | B4-(Lab 3) KK, B3-(Lab V) MP, B2-(Lab 4) VR |
| Friday | Aptitude Exam - Preparation | | 8.30 - 9.15 TCS (PP) | Java (VR) | OOSE (AP) | CN (VK) | |

### Subjects

CS1: System Programming and Operating System

CS2: Thoerotical Computer Science

CS3: Computer Network I

CS4: Internet Programming

CS5: Java Programmin

CS6: Object Oriented Software Engineering

### Faculties

MP : Minal Patil

PP : Prajkta Patil

VK: Vaishali Kale

KK: Kavita Khoje

VR: Varsha Rathod

AP: Anjum Patel

**Coordinator**

**HOD**

Scanned with OKEN Scanner

BRACT's
# Vishwakarma College of Arts, Commerce and Science, Pune
## Time-Table ( Academic Year 2017-2018)
## M.Sc(computer Science)- I

**Hall No- Basement 103**

wef- 01/07/ 2017

| Day/Time | 7.30 -8.30 | 8.30 -9.30 | 9.30 - 9.45 | 9.45 - 10.45 | 10.45 -11.45 | 11.45 - 12.30 |
|---|---|---|---|---|---|---|
| Monday | NP(MP) | DA (KK) | B | PPL(PP) | DDC (DD) | |
| Tuesday | AN (SP) | DA (KK) | R | PPL(PP) | NP(MP) | |
| Wednesday | AN (SP) | DA (KK) | E | NP(MP) | DDC (DD) | |
| Thursday | PPL(PP) | AN (SP) | A | DDC (DD) | NP(MP) | Practical lab-I&II |
| Friday | AN (SP) | DA (KK) | K | DDC (DD) | PPL(PP) | |

**AN:** Adv. Networking        **SP:**Swati Pujari

**DAA:** Design & Analysis of Algo.        **KK:** Kavita Khoje

**DDC:** Distributed Database Concept        **DD:** Deepali Dange

**NP:** Network Programming        **MP:**Minal Patil

**PPL:** Prin. Of Programming Lang.        **PP:** Prajakta Patil

**Course Co-Ordinator**        **HOD**

Dr. Arun P. Patil
**PRINCIPAL**
Vishwakarma College of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048.

BRACT's
# Vishwakarma College of Arts, Commerce and Science, Pune
## Time-Table ( Academic Year 2017-2018)
## M.Sc(computer Science)- II

Hall No- Basement - 107

*wef - 01/07/2017*

| Day/Time | 10.00 -11.00 | 11.00 -12.00 | 12.00 - 12.15 | 12.15 - 1.15 | 1.15 - 2.15 | 2.15 -3.15 |
|----------|--------------|--------------|---------------|--------------|-------------|------------|
| Monday | SPM (AP) | Soft Computing (MN) | B | DBA (VK) | WES(TG) | |
| Tuesday | DBA (VK) | Mob.Comp (SD) | R | SPM (AP) | WES(TG) | |
| Wednesday | Mob.Comp (SD) | SPM (AP) | E | DBA (VK) | Soft Computing (MN) | |
| Thursday | Soft Computing (MN) | Mob.Comp (SD) | A | DBA (VK) | WES(TG) | |
| Friday | Soft Computing (MN) | Mob.Comp (SD) | K | SPM (AP) | WES(TG) | Practical Lab I&II |

AP- Anjum Patel     **SPM : Software Project Management**
VK- Vaishali kale     **DBA: Distributed Database Architectue**
MN - Mohini Nikam     **SC : Soft Computing**
SD- Smita Deshmukh     **MC: Mobile Computing**
TG Trupti Gaikwad     **WES: Web Services**

Course Co-Ordinator     HOD

**PRINCIPAL**
Vishwakarma College of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048.

# BRACT'S
## Vishwakarma college Of Arts Commerce and Science,Pune
### MCA-III Time Table ( Academic Year 2017-18)

Hall No - Basement - 107 — Seminar Hall.

wef- 01/07/2017

| Day/Time | 12.00 - 1.00 | 1.00 -2.00 | 2.00 -2.15 | 2.15 -3.15 | 3.15 -4.15 | 4.15 - 5.15 |
|---|---|---|---|---|---|---|
| Monday | Practical Lab-I-SS* | | | CMS(SW) | IS(VK) | DCT (PK) |
| Tuesday | .Net (PS) | CMS(SW) | Break | BP (SM*) | DCT (PK) | IS(VK) |
| Wednesday | .Net (PS) | CMS(SW) | | BP (SM*) | IS(VK) | DCT (PK) |
| Thursday | CMS(SW) | .Net (PS) | | BP (SM*) | IS(VK) | DCT (PK) |
| Friday | BP (SM*) | .Net (PS) | | Practical Lab-I-PS | | |

## Faculty:

PS- Prajakta Shrungarpure     ASP. NET
SW: Sonali Walekar     Content Management System
PK - Pranjali Kubde     Data Center Technology
VK - Vaishali Kale     Info SA
SM*- Sunita Mahadik     Business & PS
    Practical

Course Co-Ordinator

HOD

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma Principal College of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048.

## BRACT'S
# Vishwakarma College of Arts,Commerce and Science
### Time-Table ( Academic Year 2018-2019)
### FYBBA (CA) (Sem I)

Hall No : 108

w.e.f.-2-7-2018

| Day/Time | 10:15-12:00 | 12.30-1.15 | 1.15-2.00 | 2.00-2.30 | 2.30-3.15 | 3.15-4.00 |
|----------|-------------|------------|-----------|-----------|-----------|-----------|
| Monday | | PPA (VK) | MOE&Off (PK) | | FA (SP*) | POM (MD) |
| Tuesday | | PPA (VK) | FA (SP*) | | POM (MD) | BC (HJ) |
| Wenesday | Pr(Lab 1) B3 PK | MOE&Off (PK) | POM (MD) | BREAK | PPA (VK) | BC (HJ) |
| Thrusday | Pr(Lab 1) B1 PK | PPA (VK) | FA (SP*) | | BC (HJ) | MOE&Off (PK) |
| Friday | Pr(Lab 1) B2 PK | MOE&Off (PK) | FA (SP*) | | BC (HJ) | POM (MD) |

**Subject Name**
**PPA**-Principals of Programming algorithms
**MOE&Off**-Modern Operating Environment&MS Office
**POM**-Principals of Management
**BC**-Business Communication
**FA**-Financial Accounting
Practical

**Faculties**
VK : Vaishali Kale
PK : Pranjali Kubde
MD : Manasa Dake
HJ: Hemant Jadhav
SP* : Supriya Patil
PK : Pranjali Kubde

Coordinator

HOD

Dr. Arun R. Patil
PRINCIPAL **Principal**
Vishwakarma College of Arts
Commerce & Science
Kondhwa (Bk.), Pune - 411 048.

## Class- FY B.Com

**Room No 109**   **Class Teacher - Bhakti Joshirao**

Date-04-07-2018

### Time Table

| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|------|--------|---------|-----------|----------|--------|
| 7.30-8.15 | E. Commerce- MD<br>Mkt & Sales- MS | E. Commerce- MD<br>Mkt & Sales- MS | CCA-PS<br>Maths.- PK | Marathi- AP<br>Hindi- SB | Busi. Economics - PB |
| 8.15-9.00 | E. Commerce- MD<br>Mkt & Sales- MS | E. Commerce- MD<br>Mkt & Sales- MS | CCA-PS<br>Maths.- PK | Marathi- AP<br>Hindi- SB | Marathi- AP<br>Hindi- SB |
| 9:00 - 9:45 | Financial A/c-BJ | CCA-PS<br>Maths.- PK | Financial A/c-BJ | Busi. Economics - PB | CCA-PS<br>Maths.- PK |
| 9.45-10:15 | B R E A K | | | | |
| 10.15-11:00 | Compl. English - HJ | Busi. Economics - PB | Bank.& Finance-PJ | Bank.& Finance-PJ | Financial A/c-BJ |
| 11:00-11:45 | Busi. Economics - PB | Bank.& Finance-PJ | Compl. English - HJ | Compl. English - HJ | Financial A/c-BJ |
| 11:45-12:30 | Bank.& Finance-PJ | Compl. English - HJ | | | |

| Name of Faculty | Subject | Name of Faculty | Subject |
|-----------------|---------|-----------------|---------|
| HJ Hemant Jadhav | Compulsory English | PJ Poonam Jadhav | Banking & Finance |
| BJ Bhakti Joshirao | Financial Accounting | MD Manasa Dake | Essentials of E-Commerce |
| PB Pravin Bonke | Bussiness Economics | MS Madhuri Sawant | Marketing & Salesmanship |
| PK Priyanka Khedkar | Business Mathematics & Stats | SB Shital Bhumkar | Hindi |
| PS Prajakta Shrungarpure | Computer Concept & App. | AP Aarti Patil | Marathi |

PSJadhav
**Coordinator**

HOD

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts,
Commerce & Science,
Kondhwa (Bk) **Principal**

## BRACT'S
# Vishwakarma College of Arts,Commerce and Science
### Time-Table ( Academic Year 2018-2019)
### M.Sc. (Computer Science) (Sem I)

Hall No- 103

*wef - 16 /07/2018*

| Day/Time | 7.30 -8.30 | 8.30 -9.30 | 9.30 - 10.00 | 10.00 - 11.00 | 11.00 -12.00 | 12.00 - 12.45 |
|----------|------------|------------|--------------|---------------|--------------|---------------|
| Monday | AN (SP) | DAA (MN) | B | PPL(PP) | DDC (BP) | |
| Tuesday | AN (SP) | PPL(PP) | R | NP(RR) | DDC (BP) | |
| Wednesday | AN (SP) | DAA (MN) | E | NP(RR) | PPL(PP) | |
| Thursday | PPL(PP) | NP(RR) | A | DDC (BP) | DAA (MN) | Practical lab- I&II |
| Friday | AN (SP) | NP(RR) | K | DDC (BP) | DAA (MN) | |

**AN:** Adv. Networking     **SP:** Swati Pujari/Patil
**DAA:** Design & Analysis of Algo.     **MN:** Mohini Nikam
**DDC:** Distributed Database Concept     **BP:** Bhagyashri Patil
**NP:** Network Programming     **RR:** Rama Rode
**PPL:** Prin. Of Programming Lang.     **PP:** Prajakta Patil

Co-Ordinator

HOD

Dr. PRINCIPAL Patil
PRINCIPAL
Vishwakarma College of Arts
Commerce & Science
Kondhwa (Bk.), Pune - 411 048.

# Vishwakarma College of Arts,Commerce and Science
## Time-Table ( Academic Year 2018-2019)
### TY BSc (Computer Science)  Sem III

**Hall No : 205**

w.e.f. 02/07/2018

| Day/Time | 7.30 - 8.15 | 8.15- 9.00 | 9.00 - 9.30 | 9.30 - 10.15 | 10.15 - 11.00 | 11.00- 11.45 | 11.45- 2.45 |
|---|---|---|---|---|---|---|---|
| Monday | TCS (PP) | SysPro(VD) | B | Java (SP) | IP (MN) | CN (TG) | B1-Syspro-(Lab 3) VD, B2-IP-(Lab V) MN, B3-Java-(Lab 4) SP |
| Tuesday | TCS (PP) | IP (MN) | R | Java (SP) | SysPro(VD) | OOSE (AP) | B2-Syspro-(Lab 3) VD, B3-IP-(Lab V) MN, B4-Java-(Lab 4) SP |
| Wednesday | TCS (PP) | SysPro(VD) | E | Java (SP) | OOSE (AP) | CN (TG) | B3-Syspro-(Lab 3) VD, B4-IP-(Lab V) MN, B5-Java--(Lab 4) RR |
| Thrusday | Java (SP) | IP (MN) | AK | SysPro(VD) | CN (TG) | OOSE (AP) | B4-Syspro-(Lab 3) VD, B5-IP-(Lab V) MN, B1-Java--(Lab 4) RR |
| Friday | | TCS (PP) | (9.00 to 9.45) IP (MN) | Break | OOSE (AP) | CN (TG) | B5-Syspro-(Lab 3) VD, B1-IP-(Lab V) MN, B2-Java-(Lab 4) RR |

### Subjects

CS1: System Programming and Operating System

CS2: Thoerotical Computer Science

CS3: Computer Network I

CS4: Internet Programming I

CS5:Java Programming I

CS6: Object Oriented Software Engineering

**Coordinator**

### Faculties

VD : Varsharani Dond

PP : Prajkta Patil

TG : Trupti Gaikwad

MN:Mohini Nikam

SP : Swati Patil

AP: Anjum Patel

RR:Rama Rode

**HOD**

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts
Commerce **Principal** Science
Kondhwa (Bk.), Pune - 411 048.

BRACT'S

# Vishwakarma College of Arts,Commerce and Science
## Time-Table ( Academic Year 2019-2020)
### FY BSc (Computer Science)   Div - A

Hall No : 004

w.e.f. 01/07/2019

| Day/Time | 9.00  to 11.30 | 11:45 to 12:30 | 12:30 to 1:15 | 1.15 - 1.45 | 1.45 to 2.30 | 2.30 to 3.15 | 3.15 - 4.00 | 4.00 - 6.15 |
|---|---|---|---|---|---|---|---|---|
| Monday | | E2 (PC) | S1 (RV) | | E1 (SP*) | M2(SK) | M1(ER) | B1-C1 (Lab II) TG, B3 - C2 (Lab III) NB |
| Tuesday | B1-Ele (Ele Lab) SP* | C1 (SS) | C2 (PP) | | S2 (RV) | E2 (PC) | M2(SK) | B3-C1 (Lab II) SS |
| Wenesday | | S1 (RV) | S1 (RV) | BREAK | M1(ER) | C2 (PP) | E1 (SP*) | B2- C1 (Lab II) SS, B1 - C2 ( Lab V) NB |
| Thrusday | | E2 (PC) | C1 (SS) | | Math Practical ( ER) | S2 (RV) | S2 (RV) | B2 - C2 (Lab V) NB, B3-Ele(Ele Lab) SP* |
| Day/Time | 9.00  to 11.30 | 11:45 to 12:30 | 12:30 to 1:15 | . | 1.30 to 2.15 | 2.15 to 3.00 | 3.00 - 3.45 | 3.45 - 4.30 | |
| Friday | B2-Ele (Ele Lab) SP* | M2(SK) | C2 (PP) | | M1(ER) | C1 (SS) | E1 (SP*) | STAT Practical (RV) | |

## Subjects

CS1: Problem Solving using Computer And 'C' Language
CS2: File Organisation and Fundamental of Database
E1: Principles of Analog Electronics
E2: Principles of Digital Electronics
M2: Discrete Mathematics
M1: Matrix Algebra
S1: Statistics Method-I
S2: Statistics Method-II

**CS1: Practicals**

**CS2 : Practicals**

**Electronics Practicals**

## Faculties

SS : Sharshti Shiv
PP: Prajakta Patil
PC: Poonam Chavan
SP* : Snehal Poman
SK : Snehal Kulkarni
ER: Eeshwari Ransing
RV: Ruta Vaidya
RV: Ruta Vaidya
TG : Trupti Gaikwad +SS : Sharshti Shiv
NB:Neeta Bendre+AB:Barde Archana
SP* : Snehal Poman

Coordinator

HOD

Dr. Arun R. Patil
Principal
Vishwakarma College of Arts
Commerce & Science
Kondhwa (Bk.), Pune - 411 048.

# Vishwakarma College of Arts, Commerce and Science
## Time-Table ( Academic Year 2019-2020)
## M.Sc. (Computer Science) (Sem III)

**Hall No-005**

W.E.F.:-22/7/19

| Day/Time | 12.00-1.00 | 1.00-2.00 | 2.00-2.30 | 2.30 -3.30 | 3.30 -4.30 |
|----------|-----------|-----------|-----------|-----------|-----------|
| Monday | Mob.Comp (SP) | SPM (AP) | Break | WES(RT) | DBA (VK) |
| Tuesday | WES(RT) | SPM (AP) | | Soft Computing (TG) | DBA (VK) |
| Wednesday | SPM (AP) | Soft Computing (TG) | | Mob.Comp (SP) | DBA (VK) |
| Thursday | Soft Computing (TG) | WES(RT) | | Mob.Comp (SP) | DBA (VK) |
| Friday | Mob.Comp (SP) | Soft Computing (TG) | | WES(RT) | SPM (AP) |

SPM : Software Project Management

MC: Mobile Computing

DBA: Distributed Database Architectue

SC : Soft Computing

WES: Web Services

AP-Anjum Patel

SP-Swati Patil

VK-Vaishali Kale

TG-Trupti Gaikwad

RT- Rupali Taware

Coordinator

HOD

Dr. Arun R. Patil

**Principal**

Vishwakarma College of Arts
Commerce & Science
Kondhwa (Bk.), Pune - 411 048.

Bansilal Ramnath Agarwal Charitable Trust's
Vishwakarma College of Arts, Commerce and Science, Pune.
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

FF38

## Department of Commerce
### Time-Table ( Academic Year 2019 - 2020  )
### (TY B. Com)

**Division :**

**Venue :** 107  (Elective: 303)

**Term/Semester : II**
**w.e.f. 19th Nov 2019**

| Day/Time | 7.30-8.15 | 8.15-9.00 | 9:00 - 9:45 | R | 10.15-11:00 | 11:00-11:45 |
|---|---|---|---|---|---|---|
| Monday | BA-II - SW<br>C&W A/c II-MT | BA-II - SW<br>C&W A/c II-MT | Adv. A/c.-SS | E | Adv. A/c.-SS | BRF- GS |
| Tuesday | BA-II - SW<br>C&W A/c II-MT | BA-II - SW<br>C&W A/c II-MT | BRF- GS | C | IGE- MT | BRF- GS |
| Wenesday | BA-III-NC<br>C& W A/c III- PJ | BA-III-NC<br>C& W A/c III- PJ | IGE- MT | E | A& T - PJ | A& T - PJ |
| Thrusday | BA-III-NC<br>C& W A/c III- PJ | BA-III-NC<br>C& W A/c III- PJ | IGE- MT | S | A& T - PJ | A& T - PJ |
| Friday | IGE- MT | Adv. A/c.-SS | Adv. A/c.-SS | S | BRF- GS | |

| Subject Name | | Faculty | Subject Name | | Faculty |
|---|---|---|---|---|---|
| Business | HJ | Hemant Jadhav | Company Law | MT | Madhura Thite |
| Corporate | GS | Gopal Sabu | Cost & Works | PJ | Poonam Jadhav |
| Accounting | | | Accounting I | | |
| | | Pravin Bonke | Business | | Dr. Nilima |
| Business | PB | | Administration I | NC | Chinchorkar |
| Economics (Macro) | | | | | |
| Business | SG | Sarika Ghorpade | EVS | | Prajakta |
| Management | | | | | Shrungarpure |

PSJadhav
**Coordinator**

**HOD**

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts
Commerce **Principal**ce
Kondhwa (Bk.), Pune - 411 048.

Issue no. 1 Rev No. 0   Dt 1.10.2019

## BRACT'S
# Vishwakarma College of Arts, Commerce and Science
### Time-Table ( Academic Year 2019-2020)
### FYBBA (CA) (Sem II)

Hall No : 205

w.e.f.-25/11/2019

| Day/Time | 10:15-12:00 | 12.30-1.15 | 1.15-2.00 | 2.00-2.30 | 2.30-3.15 | 3.15-4.00 | 4.00-4:45 |
|---|---|---|---|---|---|---|---|
| Monday | WT Pract(Lab 4) B2 AD<br>RDBMS(Lab 3) B3 DD | RDBMS(DD) | | BREAK | Ad.C(VK) | FA(S*) | WT(AD) |
| Tuesday | WT Pract(Lab 3) B3 AC | WT(AD) | BM(ER)<br>Ad.C(VK) | | OB& HRM(MD) | FA(S*) | BM(ER) |
| Wednesday | WT Pract(Lab 3) B1 AC | OB& HRM(MD) | FA(S*) | | Ad.C(VK) | BM(ER) | RDBMS(DD) |
| Thrusday | RDBMS(Lab 3) B2 DD | WT(AD) | Ad.C(VK) | | OB& HRM(MD) | FA(S*) | WT(AD) |
| Friday | RDBMS(Lab 3) B1 DD | RDBMS(DD) | WT(AD) | | OB& HRM(MD) | BM(ER) | RDBMS(DD) |

Subject Name
BM: Business Mathematics
PPA-Principals of Programming algorithms
FA: Financial Accounting
OB & HRM: Organizational Behaviour
RDBMS: Relational Database Management System
WT: Webtechnologies

Faculties
ER: Ishwari Ransing
VK : Vaishali Kale

MD : Manasa Dake
DD:Deepali Dange
AD-Anandi Dharme

Coordinator

HOD

Dr. Arun R. Patil
PRINCIPAL
**Principal**
Vishwakarma College of Arts
Commerce & Science
Kondhwa (Bk.), Pune - 411 048.

Bansilal Ramnath Agarwal Charitable Trust's
Vishwakarma College of Arts, Commerce and Science, Pune.
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

FF38

## Department of Commerce
## Time-Table ( Academic Year 2020 -2021 )
### SYBCom

**Division : A**
**Venue: Google Meet**

**Term/Semester - IV**
**W.e.f. 15/02/2021**

| Day/Time | 8:00-8:50 | 8:50-9:40 | 9:40-10:30 | 11:00-11:50 | 11:50-12:40 |
|---|---|---|---|---|---|
| Monday | CA-II GS | CA-II GS | BM - II KR | BC- II RM | CLAW-II MK |
| Tuesday | CWA II PJ /BA - II BJ | CA-II GS | CLAW-II MK | BE-II SP | BC- II RM |
| Wednesday | CWA II PJ /BA - II BJ | BC- II RM | BM - II KR | BE-II SP | CLAW-II MK |
| Thrusday | CWA II PJ /BA - II BJ | CA-II GS | BM - II KR | CLAW-II MK | BE-II SP |
| Friday | BM - II KR | BE-II SP | CWA II PJ /BA -II BJ | BC- II RM | CLAW-II MK |
| Saturday | | | | | |

| Subject Name | | Faculties | Subject Name | | Faculties |
|---|---|---|---|---|---|
| Corporate Accounting - II (CA-II) | GS | Gopal Saboo | Cost and Works Accounting II (CWA II) | PJ | Poonam Jadhav |
| Business Economics Macro II (BE-II) | SP | Dr Seema pawar | Business Administration - II (BA II) | BJ | Bhakti Joshirao |
| Company Law II (CL II) | MK | Mugdha Kande | II) | RM | Rupesh Mandlecha |
| Bus. Mgmt II (BM II) | KR | Komal Raisinghani | | | |

PSJadhav
Coordinator
Issue no. 1 Rev No. 0   Dt 1.10.2019

HOD

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts
Commerce & Science
Kondhwa (Bk.), Pune - 411 043.

Scanned with OKEN Scanner

# Bansilal Ramnath Agarwal Charitable Trust's
## Vishwakarma College of Arts, Commerce and Science, Pune.
### (Affiliated to Savitribai Phule Pune University)
### NAAC Accredited with 'B+' Grade

FF38

## Department of Commerce
## Time-Table ( Academic Year 2020 -2021)
## FYMCom

Division :                                    Term/Semester - I

Venue: Google Meet                           W.e.f. 11.01.2021

| Day/Time | 10:00 -11:00 | 11:00-12:00 | 12:30-1:30 | 1:30-2:30 |
|----------|--------------|-------------|------------|-----------|
| Monday | AA - GS | MA - PA | | |
| Tuesday | I Tax - KR | AA - GS | SM - SP | SM - SP |
| Wednesday | MA - PA | I Tax - KR | AA - GS | |
| Thrusday | AA - GS | MA - PA | I Tax - KR | SM - SP |
| Friday | MA - PA | SM - SP | I Tax - KR | |
| Saturday | | | | |

| Subject Name | Faculties | Subject Name | Faculties |
|--------------|-----------|--------------|-----------|
| Management Accounting | PA : Pandurang Aher | Advanced Accounting | GS : Gopal Saboo |
| Strategic Management | SP : Dr. Seema Pawar | Income Tax | KR : Komal Raisinghani |

PsJadhav

Dr. Arun R. Patil

**Coordinator**          **HOD**          Vishwa... **Principal**

Issue no. 1 Rev No. 0 Dt 1.1

**Bansilal Ramnath Agarwal Charitable Trust's**
**Vishwakarma College of Arts, Commerce and Science, Pune.**
**(Affiliated to Savitribai Phule Pune University)**
NAAC Accredited with 'B+' Grade

FF38

**Department of Commerce**
**Time-Table ( Academic Year 2020 -2021 )**
**FYBBA (IB)**

Division :

**Term/Semester - I**

Venue: Google Meet

W.e.f. 15/02/2021

| Day/Time | 11:00-11:50 | 11:50-12:40 | 12:40-1:30 | 2:00-2:50 | 2:50-3:40 |
|---|---|---|---|---|---|
| Monday | Bus. Stats.- RV | BCAcc - SP | ODGB-MK | POMark - SM | CGeo - PG |
| Tuesday | Bus. Stats.- RV | FOC-PS | ODGB-MK | POMark - SM | BCAcc - SP |
| Wednesday | Bus. Stats.- RV | FOC-PS | CGeo - PG | POMark - SM | BCAcc - SP |
| Thrusday | Bus. Stats.- RV | FOC-PS | ODGB-MK | CGeo - PG | BCAcc - SP |
| Friday | ODGB-MK | FOC-PS | CGeo - PG | POMark - SM | |

| Subject Name | Faculties | Subject Name | Faculties |
|---|---|---|---|
| Origin & Dev. of Global Bus. | MK Mugdha Kande | Commercial Geography | PG Paras Gaikwad |
| Principles of Mark. | SM Dr. Shital Mantri | Accounting | SP Dr. Seema Pawar |
| Business Statistics | RV Ruta Vaidya | Comp | PS Shrugarpure |

Coordinator

HOD

Dr. Arun R. Patil
PRINCIPAL
Principal
Vishwakarma College of Arts
Commerce & Science
Kondhwa (Bk.), Pune - 411 048.

Issue no. 1 Rev No. 0   Dt 1.10.2019

Bansilal Ramnath Agarwal Charitable Trust's

# Vishwakarma College of Arts, Commerce and Science, Pune.
(Affiliated to Savitribai Phule Pune University)

NAAC Accredited with 'B+' Grade

FF38

## Department of Computer Science
### Time-Table ( Academic Year 2021 -2022 )
### FY MSc(CA)

Division :

Venue :B 108

Term/Semester :II

w.e.f. 28/03/2022

| Day/Time | 10.00 to 11.00 | 11.00 to 12.00 | 12.00 to 1.00 | 1.30 to 3.45 |
|---|---|---|---|---|
| Monday | DM(AG) | CN(SP) | OS(RP) | |
| Tuesday | DM(AG) | CN(SP) | Java(PP) | |
| Wednesday | | DM(AG) | OS(RP) | JAVA Practical(Lab 8)-PP |
| Thursday | CN(SP) | DM(AG) | OS(RP) | DM Practical(Lab 8)-AG |
| Friday | CN(SP) | OS(RP) | Java(PP) | |

| Subject Name | Faculty |
|---|---|
| CA- CCTP-4 Data Mining and Ware Housing | AG : Archana Ghiware |
| CA- CCTP-5 Operating Systems | RP:Roshani Pawar |
| CA- CCTP-6 Computer Networks | SP : Swati Patil |
| CACBOTP-2 A JAVA Programming | PP:Prajakta Patil |
| CACBOPP-2A JAVA Programming Laboratory | PP:Prajakta Patil |
| CA- CCPP-2 Data Mining and Ware Housing Laboratory | AG : Archana Ghiware |

Coordinator

HOD

Principal

Issue no. 1 Rev No. 0   Dt 1.10.2019

Bansilal Ramnath Agarwal Charitable Trust's
# Vishwakarma College of Arts, Commerce and Science, Pune.
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

FF38

## Department of Computer Science
## Time-Table ( Academic Year 2021 -2022 )
## FY BSc(CS )

Division :
Venue : Hall NO 106

Term/Semester : Sem II
w.e.f. 04/04/2022

| Day/Time | 11:45 to 12:30 | 12:30 to 1:20 | 1:20 to 2:10 | 2:20 to 3:10 | 3:10 to 4:00 | 4:00 to 6:00 |
|---|---|---|---|---|---|---|
| Monday | Stat Prac(SD) | CS2 (PP) | M2(SK) | S2 (SD) | S2 (SD) | C Prac B1(Lab 4)-SS, RDBMS Prac B2(Lab 2)-PP, Math Prac B4(Lab 5)-YH, Elec Prac B3(Lab Elec)-SJ |
| Tuesday | M1(YH) | E2 (PC) | E1 (SJ) | CS2 (PP) | S1 (SD) | C Prac B2(Lab 4)-SS, RDBMS Prac B3(Lab 2)-PP, Math Prac B5(Lab 5)-YH, Elec Prac B4(Lab Elec)-SJ |
| Wednesday | CS1 (SP) | E1 (SJ) | E2 (PC) | E2 (PC) | M1(YH) | C Prac B3(Lab 4)-SS, RDBMS Prac B4(Lab 2)-PP, Math Prac B1(Lab 5)-YH, Elec Prac B5(Lab Elec)-SJ |
| Thursday | CS1 (SP) | CS2 (PP) | M2(SK) | S1 (SD) | S2 (SD) | C Prac B4(Lab 4)-SS, RDBMS Prac B5(Lab 2)-PP, Math Prac B2(Lab 5)-SK, Elec Prac B1(Lab Elec)-PC |
| Friday | CS1 (SP) | M2(SK) | M1(YH) | S1 (SD) | E1 (SJ) | C Prac B5(Lab 4)-SS, RDBMS Prac B1(Lab 2)-PP, Math Prac B3(Lab 5)-SK, Elec Prac B2(Lab Elec)-PC |

**Subject Name**
CS1:CS-121 Advanced 'C' Programming
CS2:CS-122 Relational Database Management Systems
E1:ELC-121 I Instrumentation System
E2:ELC-122 II Basics of Computer Organisation
M1:MTC-121 Linear Algebra
M2:MTC-122 Graph Theory
S1:CSST121 Methods of Applied Statistics
S2:CSST122 Continuous Probability Distributions and Testing of Hypotheses
CS Prac CS 123 Practical Course based on CS-121 and CS-122
Ele Prac:Ele 123 Electonics Lab IB
Math Prac:MTC 123 Mathematics Practical
Stat Prac:CSST 123 Statistics Practical

**Faculty**
SP Swati Pujari/Patil
PP Prajakta Patil
SJ Snehal Jadhav
PC Poonam Chavan
YH Yashashri Harshe
SK Snehal Kulkarni
SD Surekha Deshmukh
SD Surekha Deshmukh
PP Prajakta Patil+ SS Shrashti Shiv
SJ Snehal Jadhav
YH Yashashri Harshe
SD Surekha Deshmukh

Coordinator

HOD

Principal

Issue no. 1 Rev. No. 0 Dt 1.10.2019

**Bansilal Ramnath Agarwal Charitable Trust's**

# Vishwakarma College of Arts, Commerce and Science, Pune.
## (Affiliated to Savitribai Phule Pune University)
### NAAC Accredited with 'B+' Grade

FF38

## Department of Computer Science
## Time-Table ( Academic Year 2021 -2022 )
## FY MSc(CS)

**Division :**

**Venue : B 107**

**Term/Semester : II**

**w.e.f. 28/03/2022**

| Day/Time | 7.30 to 9.45 | 10.00 to 11.00 | 11.00 to 12.00 | 12.00 to 1.00 |
|---|---|---|---|---|
| Monday | | AOS(KW) | SPM(AP) | Project(SC) |
| Tuesday | | AOS(KW) | SPM(AP) | MT(NS) |
| Wednesday | AOS Prac(Lab 3)-KW | AOS(KW) | SPM(AP) | MT(NS) |
| Thursday | | AOS(KW) | Project(SC) | MT(NS) |
| Friday | MT Prac (Lab 3) -NS | MT(NS) | SPM(AP) | |

**Subject Name**

CSUT121 Advanced Operating System
CSUT122 Mobile Technologies
CSUT123 Software Project Management
CSDT124A Project
CSUP125 Practical on Advanced OS & Mobile Technologies

**Faculty**

KW : Komal Walgude
NS : Nisha Satpute
AP: Anjum Patel
SC:Sudhir Chitnis
VD+SD

**Coordinator**

**HOD**

**Principal**

Issue no. 1 Rev No. 0    Dt 1.10.2019

Vishwakarma College of Arts, Commerce and Science, Pune.
(Affiliate Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

FF38

## Department of Computer Science
### Time-Table ( Academic Year 2021 -2022 )
### TY BSc(CS)

Division :

Term/Semester : II/IV

Venue : Hall No 204

w.e.f. 28 /03/2022

| Day/Time | 9.00 to 9.50 | 9:50 to 10:40 | 11:00 to 11:50 | 11:50 to 12:40 | 1:00 to 3:15 |
|---|---|---|---|---|---|
| Monday | OS(KW) | Java (SP) | CC (PP) | STTools(SS) | Java Prac B1(Lab 2)-SP, Web Prac B2(Lab 5)-RP, OS Prac B3(Lab 4)-KW |
| Tuesday | OS(KW) | Java (SP) | Web(RP) | STTools(SS) | Java Prac B2(Lab 2)-SP, Web Prac B3(Lab 5)-RP, OS Prac B4(Lab 4)-KW |
| Wednesday | DA(AG) | Java (SP) | CC (PP) | ST(SS) | Java Prac B3(Lab 2)-SP, Web Prac B4(Lab 5)-RP, OS Prac B5(Lab 4)-KW |
| Thursday | OS(KW) | DA(AG) | Web(RP) | ST(SS) | Java Prac B4(Lab 2)-SP, Web Prac B5(Lab 5)-RP, OS Prac B6(Lab 4)-KW |
| Friday | DA(AG) | Web(RP) | CC (PP) | ST(SS) | Java Prac B5(Lab 2)-SP, Web Prac B6(Lab 5)-RP, OS Prac B1(Lab 4)-KW |
| Saturday | | | | 10.00 to 12.15 | Java Prac B6(Lab 2)-SP, Web Prac B1(Lab 5)-RP, OS Prac B2(Lab 4)-KW |

**Subject Name**

OS  CS 361-Operating System-II
ST  CS 362-Software Testing
Web  CS 363-Web Technologies - II
DA  CS 364-Data Analytics
Java  CS 365-Object Oriented Programming - II (Advanced Java)
CC  CS 366-TCS and Compiler Consti PP  Prajkta Patil
STTools-CS-3610 Software Testing Tools
CS-3611 Project
CS 367-Practical course based on CS 361
CS 368-Practical course based on CS 363 and CS 364
CS 369-Practical Course based on CS 365

**Faculty**

KW Komal Walgude
SS Sharshti Shiv
RP Roshani Pawar
AG Archna Ghiware
SP Swati Pujari/Patil
PP Prajkata Patil
SS Sharshti Shiv
SC Sudhir Chitnis
KW Komal Walgude
RP Roshani Pawar+AG Archna Ghiware
SP Swati Pujari/Patil
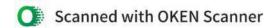
Coordinator

HOD

Principal

Issue no. 1 Rev No. 0  Dt 1.10.2019

Bansilal Ramnath Agarwal Charitable Trust's
## Vishwakarma College of Arts, Commerce and Science, Pune.
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

FF38

### Department of Computer Science
### Time-Table ( Academic Year 2021 -2022  )
### SY BSc(CS)

Division :

Venue : Hall No 204

Term/Semester :Sem II

w.e.f. 28 /03/2022

| Day/Time | 9:30 to 12:00 /10.15 to 12.30 | 1.00 to 1.50 | 1:50 to 2:40 | 2:40 to 3:30 | 3:50 to 4:40 | 4.40 to 5.30 |
|---|---|---|---|---|---|---|
| Monday | CS Prac B1(Lab 5)-NS, Math Prac B2(Lab 2)-SK, Elec Prac B3 (Lab Elec)-PL | M2(YH) | DS(NS) | M1(SK) | E2(PC) | EVS(AG) |
| Tuesday | CS Prac B2(Lab 5)-NS, Math Prac B3(Lab 2)-SK, Elec Prac B4 (Lab Elec)-PL | E1 (PL) | CN(SS) | Eng(RM) | EVS(AG) | M1(SK) |
| Wednesday | CS Prac B3(Lab 5)-NS, Math Prac B4(Lab 2)-SK, Elec Prac B1 (Lab Elec)-PL | M2(YH) | E1 (PL) | DS(NS) | M1(SK) | EVS(AG) |
| Thursday | CS Prac B4(Lab 5)-NS, Math Prac B1(Lab 2)-YH, Elec Prac B2 (Lab Elec)-PL | CN(SS) | E2(PC) | Eng(RM) | M2(YH) | E1 (PL) |
| Friday |  | E2(PC) | Eng(RM) | DS(NS) | CN(SS) |  |

| Subject Name | Faculty |
|---|---|
| C1:  CS-241 Data Structures and Algorithms - II | NS  Neeta Satpute |
| C2:  CS-242 Computer Networks - I | SS  Sharshti Shiv |
| E1:  ELC-221 Raspberry pi | PL  Prajakta Lodha |
| E2:  ELC-222 Wireless Communication and Internet of Things | PC  Poonam Chavan |
| M1:  MT-241 Computational Geometry | SK  Snehal Kulkarni |
| M2:  MT-242 Operations Research | YH  Yashashri Harshe |
| Eng: AECC-4 Language Communication - II | RM Rupesh Mandlecha |
| EVS: AECC-B Environment Science - II | AG Archna Ghoware |
| CS Prac CS 243-Practical course based on CS-241 | NS : Neeta Satpute |
| Ele Prac EL 223-Electronics Practical | PL  Prajakta Lodha |
| Math Prac MT 243-Mathematics Practical | SK  Snehal Kulkarni |

Coordinator

HOD

Principal

Issue no. 1 Rev No. 0  Dt 1.10.2019

Scanned with OKEN Scanner

# Session

# Plans

Course: T.Y.B.Sc (Computer Science)
Sub Code:CS-347   Subject Name:  Lab Course I  (Practicals Based on CS-341 -Sem IV )

Type of Subject      External
No. of Session(s) Per Week Per class :  01

| Best Book | | Title | Author | | Publication |
|---|---|---|---|---|---|
| | | | | | McGrawHill |
| 1 | Book 1 | Operating Systems | Galvin | | |
| 2 | Book 2 | Lab Book | University | | |

| Sr. No. | Topic | Sub Topic | Session | Scheduled Date (Weakwise) | Actual Date (Weak wise) | Background Reading (BR)/ Case (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|
| 1 | Assignment 1 | Extended Shell (Toy Shell) | 4 | 20/11/2017 to 24/11/2017 | 20/11/17 to 24/11/17 | Operating Systems + Lab Book |
| | | | 4 | 27/11/2017 to 01/12/2017 | 27/11/17 to 01/12/17 | |
| 2 | Assignment 2 | CPU Scheduling | 4 | 04/12/2017 to 08/12/2017 | 4/12/17 to 8/12/17 | Operating Systems + Lab Book |
| | | | 4 | 11/12/2017 to 15/12/2017 | 11/12/17 to 15/12/17 | |
| 3 | Assignment 3 | Banker's Algorithm | 4 | 18/12/2017 to 22/12/2017 | 18/12/17 to 22/12/17 | Operating Systems + Lab Book |
| | | | 4 | 25/12/2017 to 29/12/2017 | 25/12/17 to 29/12/17 | |
| 4 | Assignment 4 | Demand Paging | 4 | 01/01/2018 to 05/01/2018 | 1/1/18 to 5/1/18 | Operating Systems + Lab Book |
| | | | 4 | 08/01/2018 to 12/01/2018 | 8/1/18 to 12/1/18 | |
| | | | 4 | 15/01/2018 to 19/01/2018 | 15/1/18 to 19/1/18 | |
| 5 | Assignment 5 | File Allocation Methods | 4 | 29/01/2018 to 02/02/2018 | 29/01/18 to 02/02/18 | Operating Systems + Lab Book |
| | | | 4 | 05/02/2018 to 09/02/2018 | 05/02/18 to 09/02/18 | |
| | | Total | 44 | | | |

Prepared By: Ms. Minal Patil          Verified by: S.D.Chitnis          Approved by : Dr.A.R.Patil

Course: MSc (Computer Science) - I

Sub Code: CS-205

Subject Name: Programming with DOT NET

Type of Subject : Elective

No. of Session(s) Per Week Per class : 04

| Best Book | Title | Author | Publication |
|---|---|---|---|
| Book 1 | Beginning Visual C#, Beginning C# Object-Oriented Programming | Dan Clark , Apress | Wrox Publication |
| Book 2 | Programming ASP.NET 3.5 | Jesse Liberty, Dan Maharry, Dan Hurwitz | O'Reilly Publication |

| Sr. No. | Topic | Sub Topic | Session | Scheduled Date | Actual Date | Background Reading (BR)/Assignment (AS) : Video Lectures/G.D./PPT Presentation/Website Link |
|---|---|---|---|---|---|---|
| | | | | **Dates** | | |

Part I : C#

| Sr. No. | Topic | Sub Topic | Session | Scheduled Date | Actual Date | Background Reading (BR)/Assignment (AS) : Video Lectures/G.D./PPT Presentation/Website Link |
|---|---|---|---|---|---|---|
| 1 | DOTNET Framework | a. Introduction to DOTNET<br>b. DOT NET class framework<br>c. Common Language Runtime<br>  i. Overview<br>  ii. Elements of .NET application<br>  iii. Memory Management<br>  iv. Garbage Collector:Faster Memory allocation,Optimizations<br>d. Common Language Integration<br>  i. Common type system<br>  ii. Reflection API<br>e. User and Program Interface | 2 | 04/12/2017 to 08/12/2017 | 11/12/17 to 15/12/17 | Beginning Visual C#, Beginning C# Object-Oriented Programming |
| 2 | Introduction to C# | a. Language features<br>  i.Variables & Expressions,Type conversion<br>  ii. Flow Control<br>  iii. Functions, Delegates<br>  iv. Debugging & error handling,exception handling (System Defined & User Defined) | 2 | | | |
| | | b. Object Oriented Concepts<br>  i. Defining classes, class members, Interfaces, properties<br>  ii. Access modifiers, Implementation of class, interface and properties<br>  iii. Concept of hiding BC methods, Overriding<br>  iv. Event Handling<br>c. Collections, Comparisons & Conversions<br>  i. Defining-using collections,Indexers, iterators<br>  ii. Type comparison, Value Comparison<br>  iii. Overloading Conversion operators as operator | 4 | 11/12/2017 to 15/12/2017 | 18/12/17 to 22/12/17 | Beginning Visual C#, Beginning C# Object-Oriented Programming |
| | | d. Generics<br>  i. Using generics<br>  ii. Defining Generics, generic Interfaces, Generic methods,Generic Delegate | 2 | 18/12/2017 to 22/12/2017 | | Beginning Visual C#, Beginning C# Object-Oriented Programming |
| 3 | Window Programming | a. Window Controls<br>  i. Common Controls<br>  ii. Container Controls | 2 | | 26/12/17 to 29/12/17 | Beginning Visual C#, Beginning C# Object-Oriented Programming |
| | | iii. Menus and Toolbars<br>  iv. Printing<br>  v. Dialogs<br>b. Deploying Window Application<br>  i. Deployment Overview<br>  ii. VS setup & Deployment project types<br>  iii. Microsoft windows installer archit<br>  iv. Building the project : Installation | 4 | 25/12/2017 to 29/12/2017 | 25/12/17 to 29/12/17 | Beginning Visual C#, Beginning C# Object-Oriented Programming |

| | | | | | |
|---|---|---|---|---|---|
| 4 | Data Access | a. File System Data<br>b. XML<br>c. Databases and ADO.NET | 4 | 01/01/2018<br>to<br>05/01/2018 | 1/1/18<br>to<br>5/1/18 | Beginning Visual C#, Beginning C# Object-Oriented Programming PPT Presentation |
| | | d. Data Binding | 2 | 08/01/2018<br>to<br>12/01/2018 | 8/1/18<br>to<br>12/1/18 | |
| 5 | Web Programming | a. Basic Web programming | 2 | | | Beginning Visual C#, Beginning C# Object-Oriented Programming PPT Presentation |
| | | b. Advanced Web programming<br>c. Web Services<br>d. Deployment Web applications | 4 | 15/01/2018<br>to<br>19/01/2018 | 15/1/18<br>to<br>19/1/18 | |
| 6 | .NET Assemblies | a. Components<br>b. .NET Assembly features<br>c. Structure of Assemblies<br>d. Calling assemblies, private and shared assemblies | 3 | 29/01/2018<br>to<br>02/02/2018 | 22/1/18<br>to<br>25/1/18 | Beginning Visual C#, Beginning C# Object-Oriented Programming |
| 7 | Networking (Professional ch24) | a. Networking overview<br>b. Networking programming options<br>  i. Webclient<br>  ii. WebRequest and WebResponse<br>  iii. TcpListener &TcpClient | 2 | 05/02/2018<br>to<br>09/02/2018 | 5/2/18<br>to<br>9/2/18 | Beginning Visual C#, Beginning C# Object-Oriented Programming |
| 8 | Introduction to GDI+ | a. Overview of Graphical Drawing<br>b. Pen Class, Brush Class, Font Class<br>c. Using Images<br>d. Clipping, Drawing2D, Imaging | 2 | | | Beginning Visual C#, Beginning C# Object-Oriented Programming PPT Presentation |

**Part II : ASP. NET**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Introduction to ASP.NET | Introduction to ASP.NET | 1 | | | Programming ASP.NET 3.5 |
| 2 | Server Controls and Variables, control Structures & Functions | a. Forms,webpages,HTML forms, Webforms<br>b. Request & Response in Non-ASP.NET pages<br>c. Using ASP.NET Server Controls<br>d. Datatypes : Numeric, text, arrays, data collections | 3 | 12/02/2018<br>to<br>16/02/2018 | 12/2/18<br>to<br>16/2/18 | Programming ASP.NET 3.5 PPT Presentation |
| | | e. Overview of Control structures<br>f. Functions : web controls as parameters | 1 | 05/03/2018<br>to<br>09/03/2018 | 5/3/18<br>to<br>9/3/18 | |
| 3 | Event Driven Programming and PostBack | a. HTML events<br>b. ASP.NET page events<br>c. ASP.NET Web control events<br>d. Event driven programming and postback | 3 | | | Programming ASP.NET 3.5 NPTL Lectures |
| 4 | Reading from Databases | a. Data pages<br>b. ADO.NET | 3 | 12/03/2018<br>to<br>16/03/2018 | 12/3/18<br>to<br>16/3/18 | Programming ASP.NET 3.5 |
| 5 | ASP.NET Server Controls | a. ASP.NET Web Controls<br>b. HTML Server Controls<br>c. Web Controls | 4 | 19/03/2018<br>to<br>23/03/2018 | 19/3/18<br>to<br>23/3/18 | Programming ASP.NET 3.5 |
| 6 | DOTNET assemblies and Custom Controls | a. Introduction to Cookies, Sessions<br>b. Session events<br>c. State management Recommendations | 2 | 26/03/2018<br>to<br>30/03/2018 | 26/3/18<br>to<br>30/3/18 | Programming ASP.NET 3.5 |
| 7 | Web Services | a. HTTP, XML & Web services<br>b. SOAP<br>c. Building ASP.NET web service<br>d. Consuming a web service | 2 | 02/04/2018<br>to<br>06/04/2018 | 2/4/18<br>to<br>6/4/18 | Programming ASP.NET 3.5 |
| | Total | | 54 | | | |

Prepared By: Ms. Minal Patil    Verified by: S.D.Chitnis    Approved by: Dr.A.R.Patil

Vishwakarma College of Arts

Bansilal Ramnath Agarwal Charitable Trust's
## Vishwakarma College of Arts, Commerce and Science, Pune.
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

FP51

Session Plan (A.Y. 2019 -2020 )

Course: F.Y.B.Sc (C.S.) A
Sub Code: CSST 121
Type of Subject : External
No. of Session(s) Per Week : 3

Subject Name: Methods of Applied Statistics

**Faculty Name: R. Vaidya**

Periods

| Best Book | | Title | Author | | | Publication |
|---|---|---|---|---|---|---|
| | Book 1 | Fundamentals of applied Statistics | Gupta and Kapoor | | | S.Chand and Sons |
| | Book 2 | Fundamentals of Statistics | A.M Gupta, M.K and Dasgupta | | | Vol! Sixth Revised Edition |
| | Book 3 | Time Series Methods | Bookwell and Davis | | | Springer |

| SN | Topic | Sub Topic | No. of Sessions (PERIODS) | Scheduled Date | Actual Date | CP | RP | Extra lecture'd Date (No. of lectures) | Background Reading (BR)/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Correlation | 1.1 Bivariate Data, Scatter Diagram and its properties, Concept of correlation, Types of correlation 1.2 Karl Pearson's coefficient of correlation, Interpretation of correlation coefficient | 3 | 26/11/19 to 29/11/19 | 26/11/19 to 29/11/19 | 2 | — | | Fundamentals of applied Statistics, Assignment based on problems |
| | | 1.3 Properties of correlation coefficient Coefficient of determination 1.4 Spearman's rank correlation coefficient, Numerical Problems | 3 | 2/12/19 to 6/12/19 | 2/12/19 to 6/12/19 | 2 | — | | |
| | | 1.5 Numerical Problems | 4 | 9/12/19 to 13/12/19 | 9/12/19 to 13/12/19 | 1 | — | 11/12/19 | |
| 2 | Regression | 2.1 Concept of linear regression 2.2 Concept of non linear regression 2.3 Fitting of both lines of regression using least square method | 4 | 16/12/19 to 20/12/19 | 16/12/19 to 20/12/19 | 3 | — | 17/12/19 | Fundamentals of Statistics |
| | | 2.4 Concept of regression coefficients, 2.5 Properties of regression coefficients 2.6 Second degree curve, Exponential curve of type Y=ab^X and Y=aX^b | 4 | 23/12/19 to 27/12/19 | 23/12/19 to 27/12/19 | 3 | — | 23/12/19 | |
| | | 2.7 Numerical problems | 4 | 30/12/19 to 3/1/20 | 30/12/19 to 3/1/20 | 1 | — | 30/12/19 | |
| 3 | Multiple Regression and Multiple, partial correlation | 3.1 Concept of multiple regression, Yule's notation 3.2 Fitting of multiple regression planes Derivation of plane of regression of X1 on X2 & X3 | 3 | 6/1/20 to 10/1/20 | 6/1/20 to 10/1/20 | 2 | — | | |
| | | 3.3 Partial regression coefficients, Interpretation 3.4 Concept of multiple correlation. Definition and formula for multiple | 4 | 13/1/20 to 17/1/20 | 13/1/20 to 17/1/20 | 2 | — | 13/1/2020 | Presentation using excel |
| | | 3.5 Concept of partial correlation. Definition and formula for partial correlation coefficient | 3 | 27/1/20 to 31/1/20 | 27/1/20 to 31/1/20 | 1 | — | | |
| 4 | Time series | 4.1 Meaning and utility 4.2 Component of time series 4.3 Additive and multiplicative models 4.4 Moving average method | 3 | 3/2/20 to 7/2/20 | 3/2/20 to 7/2/20 | 4 | — | | Time Series Methods |
| 4 | Time series | 4.5 Least square method 4.6 Exponential smoothing method | 3 | 10/2/20 to 14/2/20 | 10/2/20 to 14/2/20 | 2 | — | 12/2/2020 | |
| | | 4.7 Numerical problems | 2 | 17/2/20 to 21/2/20 | 17/2/2020 to 21/2/2020 | 1 | — | | |
| | | Total | 40 | | | | | | |

R.R.Vaidya

Prepared By: Ruta Vaidya
Issue no. 1 Rev No. 0 Dt 1.10.2019

Verified By: S.D.K Initials

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts,
Commerce & Science
Kondhwa(Bk.), Pune-411 048.

CP - completed Point
RP - Remaining point

Bansilal Ramnath Agarwal Charitable Trust's
## Vishwakarma College of Arts, Commerce and Science, Pune.
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

FP51

Session Plan (A.Y. 2019 -2020 )

Course: F.Y.B.Sc (C.S.) **A**
Sub Code: CSST 121
Type of Subject : External
No. of Session(s) Per Week : 3
**Periods**

Subject Name: Methods of Applied Statistics

**Faculty Name: R. Vaidya**

| Best Book | Title | Author | | | Publication |
|---|---|---|---|---|---|
| Book 1 | Fundamentals of applied Statistics | Gupta and Kapoor | | | S.Chand and Sons |
| Book 2 | Fundamentals of Statistics | A.M Gupta, M.K and Dasgupta | | | Vol I Sixth Revised Edition |
| Book 3 | Time Series Methods | Brockwell and Davis | | | Springer |

| SN | Topic | Sub Topic | No. of Sessions (PERIODS) | Scheduled Date | Actual Date | CP | RP | Extra lecture'd Date (No.of lectures) | Background Reading (BR)/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Correlation | 1.1 Bivariate Data, Scatter Diagram and its properties, Concept of correlation, Types of correlation 1.2 Karl Pearson's coefficient of correlation, Interpretation of correlation coefficient | 3 | 26/11/19 to 29/11/19 | 26/11/19 to 29/11/19 | 2 | — | | Fundamentals of applied Statistics, Assignment based on problems |
| | | 1.3 Properties of correlation coefficient Coefficient of determination 1.4 Spearman's rank correlation coefficient, Numerical Problems | 3 | 2/12/19 to 6/12/19 | 2/12/19 to 6/12/19 | 2 | — | | |
| | | 1.5 Numerical Problems | 4 | 9/12/19 to 13/12/19 | 9/12/19 to 13/12/19 | 1 | — | 11/2/19 | |
| 2 | Regression | 2.1 Concept of linear regression 2.2 Concept of non linear regression 2.3 Fitting of both lines of regression using least square method | 4 | 16/12/19 to 20/12/19 | 16/12/19 to 20/12/19 | 3 | — | 17/12/19 | |
| | | 2.4 Concept of regression coefficients, 2.5 Properties of regression coefficients 2.6 Second degree curve, Exponential curve of type Y=ab^X and Y=aX^b | 4 | 23/12/19 to 27/12/19 | 23/12/19 to 27/12/19 | 3 | — | 23/12/19 | Fundamentals of Statistics |
| | | 2.7 Numerical problems | 4 | 30/12/19 to 3/1/20 | 30/12/19 to 3/1/20 | 1 | — | 30/12/19 | |
| 3 | Multiple Regression and Multiple, partial correlation | 3.1 Concept of multiple regression, Yule's notation 3.2 Fitting of multiple regression planes Derivation of plane of regression of X1 on X2 & X3 | 3 | 6/1/20 to 10/1/20 | 6/1/20 to 10/1/20 | 2 | — | | |
| | | 3.3 Partial regression coefficients, Interpretation 3.4 Concept of multiple correlation. Definition and formula for multiple | 4 | 13/1/20 to 17/1/20 | 13/1/20 to 17/1/20 | 2 | — | 13/1/2020 | Presentation using excel |
| | | 3.5 Concept of partial correlation. Definition and formula for partial correlation coefficient | 3 | 27/1/20 to 31/1/20 | 27/1/20 to 31/1/20 | 1 | — | | |
| 4 | Time series | 4.1 Meaning and utility 4.2 Component of time series 4.3 Additive and multiplicative models 4.4 Moving average method | 3 | 3/2/20 to 7/2/20 | 3/2/20 to 7/2/20 | 4 | — | | Time Series Methods |
| 4 | Time series | 4.5 Least square method 4.6 Exponential smoothing method | 3 | 10/2/20 to 14/2/20 | 10/2/20 to 14/2/20 | 2 | — | 12/2/2020 | |
| | | 4.7 Numerical problems | 2 | 17/2/20 to 21/2/20 | 17/2/2020 to 21/2/2020 | 1 | — | | |
| | | Total | 40 | | | | | | |

R.R.Vaidya

Prepared By: Rula Vaidya
Issue no. 1 Rev No. 0 Dt 1.10.2019

Verified By & DX Chitals

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts,
Commerce & Science
Kondhwa(Bk.), Pune-411 048.

**CP - Completed Point**
**RP - Remaining point**

35

# Vishwakarma College of Arts, Commerce and Science, Pune.

(Affiliated to Savitribai Phule Pune University)

NAAC Accredited with 'B+' Grade

Session Plan (A.Y. 2019 - 2020  )

FF51

Course: SYBSC (CS)

Sub Code: ELC 212

Subject Name: The 8051 Architecture, Interface and Programming

Type of Subject : External / Internal

No. of Session(s) Per Week : 4

**Faculty Name: Poonam Chavan**

| Best Book | Title | Author | | Publication |
|---|---|---|---|---|
| Book 1 | 8051 Microcontroller & Embedded System | Mazidi, Mazidi & McKinley | | Pearson |
| Book 2 | The 8051 microcontroller-Architecture | K. Uma Rao and Andhe Pallavi | | Pearson |
| Book 3 | PIC Microcontrollers | Mazidi, Mazidi & McKinley | | Pearson |

| SN | Topic | Sub Topic | No.of Sessions period | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Background Reading (BR)/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Basic of microcontroller & Intel 8051 Architecture | 1.1 Introduction to Microcontroller | 3 | 20/11/2019 to 22/11/2019 | 20/11/19 to 22/11/19 | 4 | - | | 8051 Microcontroller & Embedded System - Mazidi, Mazidi & McKinley Assignment - 1 |
| | | 1.2 Difference between controller & processor | | | | | | | |
| | | 1.3 Pin Diagram of 8051 | | | | | | | |
| | | 1.4 Architecture of 8051 | | | | | | | |
| | | 1.5 I/O port & specification of I/O ports | 4 | 25/11/2019 to 29/11/2019 | 25/11/19 to 29/11/19 | 3 | - | | |
| | | 1.6 Internal Block Diagram, SFRs | | | | | | | |
| | | 1.8 Internal RAM organization | | | | | | | |
| | Class test/Home assignment/Mini project/Viva/Case studies | | | | 29/11/19 | | | | |
| 1 | Programming model of 8051 | 1.7 External memory interface | 4 | 2/12/2019 to 6/12/2019 | 2/12/19 6/12/19 | 1 | 1 | | 8051 Microcontroller & Embedded System - Mazidi, Mazidi & McKinley Assignment - 2 |
| | | 2.1 Intruction Set, Classification | | | | | | | |
| 2 | | 2.2 Addressing Modes | 4 | 9/12/2019 to 13/12/2019 | 9/12/19 to 13/12/19 | 2 | 1 | 12/12/19 | |
| | | 2.3 Asembler directives, features with example | | | | | | | |
| | Class test/Home assignment/Mini project/Viva/Case studies | | | | 13/12/19 | | | | |
| 2 | Programming model of 8051 | 2.4 I/O programming using assembly language | 4 | 16/12/2019 to 20/12/2019 | 16/12/19 to 20/12/19 | 2 | 1 | | |
| | | 2.5 Introduction to 8051 programming in C | | | | | | | |
| | | 2.6 LED Interface | | | | | | | |
| | | 2.7 Interfacing of 7 Segment Display | | | | | | | |
| | | 2.8 Programming in C | 3 | 23/12/2019 to 27/12/2019 | 23/12/19 to 27/12/19 | 3 | 1 | 27/12/19 | |
| 3 | | 3.1 TMOD, TCON, SCON, PCON, SBUF registers | | | | | | | |
| | Class test/Home assignment/Mini project/Viva/Case studies | | | | 27/12/19 | | | | |
| 3 | Timer Counter, Serial communication & Interrupts for program in C | 3.2 Timer modes & programming for timer delay using mode 1 & 2. | 3 | 30/12/2019 to 3/01/2020 | 30/12/19 to 3/1/20 | 4 | | 3/01/20 | 8051 Microcontroller & Embedded System - Mazidi, Mazidi & McKinley Assignment - 3 |
| | | 3.3 introduction to Interrupts, types & vector addresses | 4 | 6/01/2020 to 10/01/2020 | 6/1/20 to 10/1/20 | 4 | - | | |
| | | 3.4 IE and IP Registers | 4 | 13/01/2020 to 17/01/2020 | 13/1/2020 17/1/2002 | 2 | - | | |
| | | 3.5 Serial communication: Synchronous and Asynchronous | | | | | | | |
| | | 3.6 Programming serial port without interrupt | 4 | 27/01/2020 to 31/01/2020 | 27/1/20 to 31/1/20 | 2 | - | | |
| | | 3.7 Use of timer to select baud rate for serial | | | | | | | |
| 4 | Interfacing, programming & applications of 8051 | 4.1 Interfacing ADC | 4 | 3/02/2020 to 7/02/2020 | 3/2/20 to 7/2/20 | 2 | - | | ARM System Developers Guide - Sloss, Andrew Syhnes PIC Microcontrollers - Mazidi, Mazidi & McKinley Assignment - 4 |
| | | 4.2 Interfacing DAC | | | | | | | |
| | | 4.3 Interfacing LCD | 4 | 10/02/2020 to 14/02/2020 | 10/2/2020 14/2/2020 | 2 | - | | |
| | | 4.4 Stepper motor interfacing | | | | | | | |
| | | 4.5 Study of advanced microcotroller: ARM and PIC microcontroller | 3 | 17/02/2020 to 21/02/2020 | 17/2/2020 21/2/2020 | 3 | - | | |
| | | 4.6 Features and Apllications | | | | | | | |
| | Internals Examination | | | | | | | | |
| | | Total | 48 | | | | | | |

Chavon

CP — completed point

RP — Remaining point

Prepared By: Ms.Poonam Chavan

Issue no. 1 Rev No. 0  Dt 1.10.2019

Verified By S.D.Chitnis

Dr. Arup R. Patil

Approved PRINCIPAL

Vishwakarma College of Arts, Commerce & Science

Kondhwa(Bk.), Pune-411 048.

VCACS

Vishwakarma College of Arts, Commerce and Science, Pune.
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

Session Plan (A.Y. 2020-2021)

FF51

Course: TYBSc(CS)
Sub Code: CS-332
Type of Subject : External / Internal
No. of Session(s)/Periods Per Week : 04
Faculty Name: Prajakta Patil

Subject Name: Theoretical Computer Science

Source(Weblink):http://www.unipune.ac.in/Syllabi_PDF/revised-2015/science/TY-BSc-Computer-Science_25-06-15.pdf

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Introduction | 1.1 Symbol, Alphabet, String | 1 | 2/07/2020 to 04/07/2020 | 3)07/2020 | 0) | NIL | | | | https://www.tutorialspoint.com/automata_theory/index.htm & https://www.javatpoint.com/automata-tutorial |
| | | 1.1 Prefix& & Suffix of Strings, Formal Language, Operations on Languages. 1.2 Regular Expressions (RE) : Definition & Example 1.3 Regular Expressions Identities. | 3 | 06/07/2020 to 11/07/2020 | 6/7/2020 7/7/2020 8/7/2020 11/07/2020 | 03 | NIL | | | | |
| 2 | Finite Automata | 2.1 Deterministic finite Automaton – Definition | 1 | | | | | | | 5t | |
| | | DFA as a language recognizer,  DFA as a pattern recognizer. DFA Examples 2.2 Nondeterministic finite automaton – Definition and Examples. 2.3 NFA TO DFA | 4 | 13/07/2020 to 18/07/2020 | 13/7, 14/7, 15/7, 18/7 | 0) | NIL | | | | |
| | | 2.4 NFA with ε- transitions Definition and Examples. 2.5 NFA with ε-Transitions to DFA & Examples | 4 | 20/07/2020 to 25/07/2020 | 20/7, 21/7, 22/7, 25/07 | 04 | NIL | | | | https://www.tutorialspoint.com/automata_theory/index.htm & https://www.javatpoint.com/automata-tutorial |
| | | 2.6 Finite automaton with output – Mealy and Moore machine, Definition and Examples. 2.7 Minimization of DFA, Algorithm & Problem using Table Method | 3 | 27/07/2020 to 01/08/2020 | 27/7/2020 28/08/2020 30/7/2020 | 02 | NIL | | | | |
| | Class test/Home assignment/Mini project/Viva/Case studies    4/8/20 | | | | 04-08-20 | 4/8/20 | | | | | | |
| 3 | Regular Languages | 3.1 Regular language-Definition and Examples. 3.2 Conversion of RE To FA-Examples. | 3 | 3/08/2020 to 08/08/2020 | 6/8/20(2L) | 02 | NIL | | | G | https://www.tutorialspoint.com/automata_theory/index.htm & https://www.javatpoint.com/automata-tutorial |
| | | 3.3 Pumping lemma for regular languages and applications. 3.4 Closure properties of regular Languages | 3 | 10/08/2020 to 15/08/2020 | 11/8/20 13/8/20(2L) | 02 | NIL | | | | |
| 4 | Context Free Grammar and Languages | 4.1 Grammar - Definition and Examples. 4.2 Derivation-Reduction - Definition and Examples. 4.3 Chomsky Hierarchy. | 3 | 17/08/2020 to 22/08/2020 | 18/8, 19/8, 20/8 | 02 | NIL | | | | https://www.tutorialspoint.com/automata_theory/index.htm & https://www.javatpoint.com/automata-tutorial & https://www.gatevidyalay.com/theory-of-automata-computation/ |
| | | 4.4 CFG : Definition & Examples. LMD, RMD, ,Parse Tree 4.5 Ambiguous Grammar : Concept & Examples. | 4 | 24/08/2020 to 29/08/2020 | 25/8, 27/8(2L) 29/8 | 03 | NIL | | | | |
| | | 4.6 Simplification of CFG 4.7 Normal Forms 4.8 Regular Grammar : Definition. | 4 | 31/08/2020 to 05/09/2020 | 03/09(2L) 05/09(2L) | 03 | NIL | | | Gu | |

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | Context Free Grammar and Languages | 4.9 Closure Properties of CFL's(Union, concatenation and Kleen closure) Method and examples | 1 | 07/09/2020 to 12/09/2020 | 8\|9, 9\|9, 11\|9, 12\|9 | 03 | — | | | | |
| 5 | Push Down Automaton | 5.1 Definition of PDA and examples<br>5.2 Construction of PDA using empty stack and final State method | 3 | | | | | | | | https://www.tutorialspoint.com/automata_theory/index.htm & https://www.javatpoint.com/automata-tutorial |
| 6 | Turing Machine | 5.3 Definition DPDA & NPDA, their correlation and Examples of NPDA<br>5.4 CFG (in GNF) to PDA | 3 | 14/09/2020 to 19/09/2020 | 15\|9, 16\|9 19\|9(2L) | 3 | — | | | | |
| | | 6.1 The Turing Machine Model and Definition of TM | 1 | | | | | | | ✓ | https://www.tutorialspoint.com/automata_theory/index.htm & https://www.javatpoint.com/automata-tutorial |
| | | 6.2 Design of Turing Machines<br>6.3 Problems on language recognizers.<br>6.4 Language accepted by TM | 4 | 21/09/2020 to 26/09/2020 | 22\|9, 23\|9 25\|9, 26\|9 | 04 | — | | | | |
| | | 6.6 Introduction to LBA (Basic Model) &CSG.( Without Problems)<br>6.7 Computing TM, Enumerating TM, Universal TM<br>6.8 Recursive Languages | 3 | 28/09/2020 to 03/10/2020 | 29\|9, 30\|9, 3\|10 | 03 | — | | | ✓ | |
| | | 6.9 Turing Machine Limitations<br>6.10 Decision Problem, Undecidable Problem, Halting Problem of TM | 2 | 5/10/2020 to 10/10/2020 | 6\|10, 7\|10 | 2 | — | | | | |
| | Revision | | | | 9\|10, 10\|10 13\|10 | | | | | ✓ | |
| | Internal Examination | | | | | | | | | | |
| | | Total | 50 | | | | | | | | |

CP-Completed Point
RP-Remaining Point

Subject Teacher _Prajakta Patil_
Issue no. 1 Rev No. 0   Dt 1.10.2019

Co-ordinator

HOD

Course: S.Y.BCOM   Subject Name:  Corporate Accounting
Sub Code: 202

Type of Subject:   External
No. of Session(s) Per Week Per class :  04

| Best Book | Title | Author | | Publication |
|---|---|---|---|---|
| Book 1 | Financial Accounting For Management | S. N. Maheshwari | | Vikas  Publication |
| Book 2 | Advanced Accounts | M.C. Shukla & S. P. Grewal | | Sultan Chand and Co |
| | | Dates | | |

| Sr. No. | Topic | Sub Topic | Session | Scheduled Date (Weekwise) | Actual Date (Weekwise) | Background Reading(BR)/Assignment(AS)Vid eoLectures/G.D./PPT Presentatio n/ WebsiteLink |
|---|---|---|---|---|---|---|
| 1 | Accounting for Amalgamat ion. Absorption and External Reconstruct ion of Co. | Meaning- Vendor and Purchasing Companies- Purchase Consideration- | 4 | 13/11/2017 to 17/17/2017 | 13-11-2017 17-11-17 | Refernce Book on Financial Accounting - S.N.Maheshwari |
| | | Accounting entries- and Preparation of Balance Sheet after Amalgamation, | 4 | 20/11/2017 to 24/11/2017 | 20-11 24-11 | |
| | | Amalgamation of Companies | 3 | 27/11/2017 to 30/11/2017 | 27-11 30-11 | |
| | | Examples on External Reconstruction | 4 | 04/12/2017 to 08/12/2017 | 04-12 08-12 | |
| | | Absoption of Companies | 3 | 11/12/2017 to 14/12/2017 | 11-12 14-12-2017 | |
| | | TEST | | 15/12/2017 | 29-12-2017 | |
| 2 | Accounting for Internal Reconstruct ion:- | Alteration of Share Capital, | 3 | 18/12/2017 to 22/12/2017 | 18-12-2017 22-12-2017 | Refernce Book on Financial Accounting - S.N.Maheshwari |
| | | Reduction of Share Capital-Accounting Entries | 3 | 26/12/2017 to 29/12/2017 | 26 to 29-12-17 | |
| | | preparation of Balance Sheet After Internal Reconstruction | 4 | 01/01/2018 to 05/01/2018 | 01-01-2018 05-01-18 | |
| 3 | Holding Company Account:- | Preparation of Consolidated Balance Sheet of Holdinh Company with one Subsidiary only. | 4 | 08/01/2018 to 12/01/2018 | 08-1-298 12-01-2018 | Assignment on Holding Company - compulsory example in university question paper |
| | | Adjustment of Inter Company Transaction, Unrealized profit of stock | 4 | 15/01/2018 to 19/01/2018 | 15-01-18 to 19-01-18 | |
| | | Examples on calculation of Minority Interest, Cost of Control, Goodwill | 4 | 29/01/2018 to 02/02/2018 | 29-1-18 to 02-02-2018 | |
| | | Examples on Holding Company Accounts | 4 | 05/02/2018 to 09/02/2018 | 05-02-18 to 09-02-18 | |
| | | TEST | | 13/02/2018 | — | |
| 4 | Valuations of Shares:- | Valuation, Need for Valuation, Special Factors affecting Valuation of Shares, Methods of Valuation - (a) Net Assets Method, (b) Yield Basis Method, (c) Fair value method | 2 | 14/02/2018 to 16/02/2018 | 15/2/18 to 16/2/18 | Assignment on variours methods of Valuation of Shares |
| | | Examples on valuation of Shares | 4 | 19/02/2018 to 23/02/2018 | 19/2/18 23/2/18 | |
| | | Examples on valuation of Shares | 2 | 26/02/2018 to 28/02/2018 | 28/2/18 | |
| | Total | | 48 | | | |

Prepared By: Swati Sathye

Verified by: Swati Sathye

Approved by : Dr. A.R.Patil

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts,
Commerce & Science
Kondhwa(BK.), Pune-411 048.

# B.Com(First Year)  Session Plan - 2018-19

| Course: B.Com | | | | |
|---|---|---|---|---|
| Sub Code:104 B | Subject Name: Computer Concept & Aplication | | | |
| Type of Subject | Optional | | | |
| No. of Session(s) Per Week : 04 | | | | |

| Best Book | Title | Author | | Publication |
|---|---|---|---|---|
| Book 1 | Computer Fundamentals | Anita Goel | | Pearson Education India ISBN: 9788131742136 |
| Book 2 | Frontiers of Electronic Commerce | Ravi Kalakota, Andrew B. | | Education, ISBN:9788177583922 |
| Book 3 | Internet: The Complete Reference | Margaret Levine Young | | Tata McGraw Hill |
| Book 4 | Computers and Commerce | L. Norberg | | MIT Press (MA),ISBN:9780262140904 |
| Book 5 | Murach's HTML, XHTML and CSS | Anne Boehm | | ISBN-9789350230954 |

| Sr. | Topic | Sub Topic | Dates | | | Background Reading (BR)/ Case (C) /Assignment (AS) / |
|---|---|---|---|---|---|---|
| | | | Session | Scheduled Date | Actual | |
| 1 | Internet and Internet application | Introduction, Internet evolution Working of Internet, Use of Internet Overview of World Wide Web (Web Server and Client) | 4 | 26/11/2018 to 1/12/2018 | 26/11/18 to 1/12/18 | Book 2, 3 & www.tutorialspoint.com & PPT and Assignment on Related topic |
| | | Introduction to Search engine and Searching the Web Downloading files Introduction to Web Browsers Working with E-mail (creation and use of the same) | 4 | 3/12/2018 - 8/12/2018 | 3/12/18 - 8/12/18 | |
| 2 | Electronic Data Interchange | Introduction to EDI EDI Architecture Financial EDI Overview of the technology involved in EDI | 4 | 10/12/2018 to 15/12/2018 | 10/12/18 to 15/12/18 | Book 2, 3 & www.tutorialspoint.com & PPT and Assignment on Related topic |
| | Class Test | Chapter 1 and 2 | 1 | 19/12/2018 | 19/12/18 | |
| 3 | Electronic Payment System | Introduction to EPS Introduction to EFT (Electronic Fund Transfer) Introduction to SET (Secure Electronic Transaction) | 4 | 18/12/2018 to 22/12/2018 | 18/12/18 to 22/12/18 | Book 2, 3 & www.tutorialspoint.com & PPT and Assignment on Related topic |
| | | Business requirement addressed by SET Introduction to Digital Signature and Digital Certificates , Stages of SET Types of Payment System: Digital Cash, Electronic Cheque, Smart Card, Credit/Debit Card | 3 | 24/12/18 to 29/12/18 | 18/12/18 22/12/18 | |
| 4 | Introduction to HTML. | Introduction to HTML. Working of HTML Creating and loading HTML page, tags Structure of on HTML, | 1 | 7/1/2019 - 12/1/2019 | 7/1/19 to 12/1/19 | Book 5 & www.tutorialspoint.com & PPT and Assignment on Related topic |
| | | Document, Stand Alone Tags Formatting text, Adding Images Creating hyper Links, | 4 | 14/1/2019 to 19/1/2019 | 14/1/19 to 19/1/19 | |
| | | Tables Sending E-mails through Web Page Sample web pages | 4 | 21/1/2019 - 26/1/2019 | 21/1/19 to 26/1/19 | |
| 5 | Introduction To Web page Design | Introduction to Web design, Types of Web Pages Web design Pyramid Building web sites | 4 | 28/01/2019 - 02/02/2019 | 28/1/19 - 2/2/19 | Book 5 & www.tutorialspoint.com & PPT and Assignment on Related topic |
| | | Web development process model | 4 | 04/02/2019 to 9/02/2019 | 04/2/19 9/2/19 | |
| 6 | Designing The web pages | Page size, Page type, Page margin, Entrance page Exit page, Graphics in Webpage design | 4 | 11/02/2019 - 16/02/2019 | 11/2/19 - 16/2/19 | Book 5 &3 www.tutorialspoint.com & PPT and Assignment on Related topic |
| | | Animation Effect, Sound Effect Color Effect Uploading the web site (Web space, Domain Name, Hosting the web site) | 3 | 18/02/2019 to 23/02/2019 | 18/2/19 to 23/2/19 | |
| 7 | Internet Security | Security, Privacy Ethical Issues & Cyber Law | 4 | 25/02/2019 - 28/02/2019 | 25/2/19 to 28/2/19 | Book 5 & 3 www.tutorialspoint.com & PPT and Assignment on Related topic |
| | | Total Lecturers | 48 | | | |

Prepared By : Prajakta Shrungarpure

Verified By : Swati Sathye

Approved By : Dr. A.R. Patil
Vishwakarma College of Arts

Bansilal Ramnath Agarwal Charitable Trust's
# Vishwakarma College of Arts, Commerce and Science, Pune.
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

FF51

Session Plan (A.Y. 2019 -2020 )

Course: TYBBA IB

Sub Code: 60??

Type of Subject : External / Internal

No. of Session(s) Per Week : 4

Subject Name: International Project Management

**Faculty name : Nilima Chinchorkar**

| Best Book | Title | Author | | | | Publication |
|---|---|---|---|---|---|---|
| Book 1 | International Project Management | Vidya Bhagawat | | | | Nirali Publication |
| Book 2 | International Project Management | Harvey | | | | Person Education |
| Book 3 | Project Management | Vasant Desai | | | | Himalaya Publication |

| SN | Topic | Sub Topic | No.of Session s/ Period | Scheduled Date | Actual Date | CT | RT | Extra lecture's Date (No.of | Background Reading (BR)/ Case Study (C) /Assignment (AS) / |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Introduction to International Project Management | Introduction / Characteristics of Project | 4 | 2-12-19 to6-12-19 | 2-12-19 / 6-12-19 | 4 | 0 | | 7S Frame work |
| | | Phases and Complexities of a project / Definition of Project / 7S Framework of Project / Advantages of Project | 4 | 9-12-19 to 13-12-19 | 9-12-19 / 13-12-19 | 3 | 0 | | Skill required for Project Management |
| | | Role,skills and knowledge required for project Management | 4 | 16-12-19 to 20-12-19 | 16-12 19-to 20-12 19 | 3 | 0 | | |
| 2 | Strategy Planning and Project Management | Introduction to Strategic Resource Coordination / Project Performance | 4 | 23-12-19 to 27-12-19 | 23-12 to 27-12 | 4 | 0 | | Project Analysis |
| | | Work Breakdown / Stake holder / Project Analysis / Social Cost Benefit | 4 | 30-12-19 to3-01-20 | 30-12-19 / 3-01.20 | 3 | 0 | | |
| | Class test/Home assignment/Mini | | | | | | | | |
| 3 | Time Cost and Quality Planning | Time in Project / Gantt Charts | 4 | 6-01-20 to 10-01-20 | 6-01-20 / 10-01-20 | 3 | 0 | | Gantt Chart |
| | | Critical Path Analysis / Activity on Arrow | 4 | 13-01-20 to 17- | 13-1-20 to 17-1 | 3 | 0 | | |
| | | Time Scheduling / Cost in Project Management | 4 | 27-01-20 to 31- | 27-1-20 to 31-1- | 2 | 0 | | Control System |
| 4 | Project Delivery and Control | Requirement of Control / Defining Veriation Limits | 2 | 3-02-20 to 7-02-20 | 30-2-20 to 7-02-20 | 4 | 0 | | |
| | | Measurement,MakingPro / Feedback andCorrective | 2 | | 10-2-20 | 4 | 0 | | CA Format |
| | | Project Completion and Improvement, Training and Education | 4 | 10-02-20 to 14- | 14-2-20 | | | | |
| | Class test/Home assignment/Mini | | | | | | | | |
| 5 | Cultural Factors Influencing International Project and Learning | Different Countries, Cultures,its use in international Projects | 4 | 17-02-20 to 21-02-20 | 17.2-20 to 21/2/20 | 4 | 0 | | Cultural Factors in PM |
| | | Future Challenges in / Improving Project Performance | 4 | 24-02-20to 28-2 20 | 24/2/20 to 28/2/20 | 4 | 0 | | Assignment |
| | Revision | | | | | | | | |
| | Internals | Total | 48 | | | | | | |

CP = completed Points

RP = Remaining Points

Prepared by : Dr. Nilima Chinchorkar

Verified by: Dr. Shital Mantri   Approved by Dr A R Patil

Issue No .1 Rev No .0 Dt 1.10.2019

Session Plan (A.Y. 2020-2021)

**Course: F.Y.B.Com**
**Sub Code: 112**
**Type of Subject : External / Internal**
**No. of Session(s)/Periods Per Week :  04**
**Faculty Name: Bhakti Abhijit Joshirao**

**Subject Name: Financial Accounting - I**

Source(Weblink): http://collegecirculars.unipune.ac.in/sites/documents/Syllabu %202019/F.Y.B.Com.%20Semester-I_27.062019.pdf

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **Dates** | | | | | | |
| 1 | Accounting Concepts, Conventions and Principles and an Overview of Emerging Trends in Accounting | Accounting Concepts and Conventions and Principles Money Measurement, Business Entity, Dual Aspect, Periodicity Concept, Realization Concept, Matching Concept | 4 | 07/09/2020 to 12/09/2020 | 07/09/20 to 12/09/2020 | 07 | 00 | | | | PPT on accounting concepts, conventions and principles/ Assignment: Library Assignment |
| | | Accounting Concepts and Conventions and Principles Accrual or Cash Concept, Consistency Concept, Conservatism Principle, Materiality Concept, Going Concern Concept, Historical Cost Concept | 4 | 14/09/2020 to 19/09/2020 | 14/09/20 to 19/09/20 | 06 | 00 | | | | |
| | | Emerging Trends in Accounting Inflation Accounting, Creative Accounting, Environmental Accounting, Human Resourse Accounting and Forensic Accounting | 4 | 21/09/2020 to 26/09/2020 | 21/09/20 to 26/09/20 | 04 | 00 | | | | |
| | Class test/Home assignment/Mini project/Viva/Case studies | | | | | | | | | SPH | |
| 2 | Piecemeal Distribution of Cash | Surplus Capital Method only, Asset taken over by a partner, Treatment of Past Profits or Past Losses in the Balance Sheet | 3 | 28/09/2020 to 03/10/2020 | 28/09/20 to 03/10/20 | 03 | 00 | | | | PPT on Piecemeal Distribution of Cash/ Assignment: Sum Solving |
| | | Contingent Liabilities, Realization Expenses or Amount kept aside for Expenses | 4 | 05/10/2020 to 10/10/2020 | 05/10/20 to 10/10/20 | 03 | 00 | | | | |
| | | Adjustment of Actual, Treatment of Secured Liabilities, Treatment of Preferential Liabilities like Govt. dues, labour dues,etc | 4 | 12/10/2020 to 17/10/2020 | 12/10/20 to 17/10/20 | 03 | 00 | | | | |
| | | Excluding Insolvency of Partner and Maximum Loss Method. | 1 | 19/10/2020 to 24/10/2020 | 19/10/20 to 24/10/20 | 02 | 00 | | | | |

| SN | Topic | Sub Topic | No. of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assigment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **Dates** | | | | | | |
| 3 | Accounts From Incomplete Records (Single Entry System) | Meaning of Single Entry System | 3 | 19/10/2020 to 24/10/2020 | 19/10/20 to 24/10/20 | 1 | 0 | | | | PPT on Single Entry System/ Assignment: Sum Solving |
| | | Features of Single Entry System | 3 | 26/10/2020 to 31/10/2020 | 26/10/20 to 31/10/2020 | 1 | 0 | | | | |
| | | Conversion of Single Entry into Double Entry System | 4 | 02/11/2020 to 07/11/2020 | 2/11/2020 to 7/11/20 | 1 | 0 | | | | |
| | | Conversion of Single Entry into Double Entry System | 2 | 09/11/2020 to 14/11/2020 | 9/11/20 to 14/11/20 | 1 | 0 | | | | |
| | Class test/Home assignment/Mini project/Viva/Case studies | | | 26/10/2020 to 31/10/2020 | 26/10/2020 to 31/10/2020 | | | | | (SPH) | |
| 4 | Introduction to Goods and Service Tax Laws and Accounting | Constitutional Background of GST, Concepts and Definition of GST | 4 | 23/11/2020 to 28/11/2020 | 23/11/2020 to 28/11/2020 | 2 | 0 | | | | https://youtu.be/-eBkdtuQnVc Assignment: Library Assignment |
| | | IGST, CGST and SGST and Input and Output Tax Credit | 4 | 30/11/2020 to 05/12/2020 | 30/11/2020 to 5/12/2020 | 4 | 0 | | | | |
| | | Procedure for Registration under GST | 4 | 07/12/2020 to 12/12/2020 | 7/12/2020 to 12/12/2020 | 2 | 0 | | | | |
| | Revision | | | | | | | | | | |
| | Internal Examination | | | | 28/12/20 to 31/12/20 | | | | | | |
| | | Total | 48 | | | | | | | | |

CP-Completed Point
RP-Remaining Point

Boshirao
Subject Teacher
Issue no. 1 Rev No. 0 Dt 1.10.2019

P.S.Jadhav
Co-ordinator

SPHaoln
HOD

**F.Y.BCOM Term- II Session Plan - 2017-18**

Course: F.Y.Bcom
Sub Code: 102    Subject Name:   Financial Accounting

Type of Subject     External
No. of Session(s) Per Week Per class :  04

| Best Book | Title | Author | Publication |
|---|---|---|---|
| | | | Sultan Chand and Co. |
| Book 2 | Financial Accounting | Shukla and Grewal | Tata McGraw –Hill |
| Book 3 | Accounting Made Easy | Rajesh Agarwal & R Srinivasan | |

| Sr. No. | Topic | Sub Topic | Session | Scheduled Date (Weekwise) | Actual Date (Weekwise) | Background Reading(BR)/Assignment(AS)VideoLectures/G.D./PPTPresentation/WebsiteLink |
|---|---|---|---|---|---|---|
| 1 | Introduction and Relevance of Accounting Standards | Overview of Accounting Standards in India-Concept | 4 | 13/11/2018 to 17/11/2017 | 13-11-17 to 17-11-17 | Financial Accounting - Sukla Grewal Assignment on AS 2 and AS4 |
| | | Need, Scope and Importance. | 3 | 20/11/2017 to 24/11/2017 | 20-11-17 24-11-17 | |
| | | Study of AS- 1, AS- 2, AS- 4 and AS- 9 | 3 | 27/11/2017 to 30/11/2017 | 27-11-17 to 30-11-17 | |
| 2 | Royalty Accounts [excluding sub-lease] | Royalty, Minimum Rent, Short Workings, Recoupment of Short Working, Lapse of Short Working. | 3 | 04/12/2017 to 08/12/2017 | 04-12-17 to 8-12-17 | Financial Accounting - Sukla Grewal |
| | | Journal Entries and Ledger Accounts in the Books of Landlord and Lessee. | 3 | 11/12/2017 to 15/12/2017 | 11-12-2017 | |
| | | Examples on Royalty | 3 | 18/12/2017 to 22/12/2017 | 18-12-2017 to 22-12-2017 | |
| | | Adjustment on Strike, Lockout and Royalties in case of Copy writes | 3 | 26/12/2017 to 29/12/2017 | 26-12-2017 to 29-12-2017 | |
| | | TEST | | 22/12/2017 | 29-12-2017 | |
| 3 | Hire Purchase and Installment System:[Excluding H. P. Trading] | Basic Concepts and Distinction, Calculation of Interest and Cash Price, | 4 | 01/01/2018 to 05/01/2018 | 01-01-2018 05-01-2018 | Financial Accounting - Sukla Grewal |
| | | Journal Entries And Ledger Accounts in The Books of Purchaser and Seller. | 3 | 08/01/2018 to 12/01/2018 | 08-01-2018 to 12-01-2018 | |
| | | Examples on Hire Purchase when Rate of Interest is given, when rate of interest is not given. | 3 | 15/01/2018 to 19/01/2018 | 15-1-18 to 19-1-18 | |
| | | Examples on Hire Purchase | 3 | 29/01/2018 to 02/02/2018 | 29-1-18 to 02-02-18 | |
| | | Examples on Instalement System | 3 | 05/02/2018 to 09/12/2018 | 05-02-18 09-02-18 | |
| 4 | Departmental Accounts | Meaning and Introduction to Departmental Accounts | 4 | 12/02/2018 to 16/02/2018 | 12-02-18 16-02-18 | Assignment on Departmental Accounts |
| | | Methods and Techniques of Departmental Accounts | 3 | 19/02/2018 to 23/02/2018 | 19-02-18 to 23-02-18 | |
| | | Allocation of expenses, Inter-Departmental Transfers, Provision for unrealized profits | 3 | 26/02/2018 to 28/02/2018 | 26-02-18 to 28-02-18 | |
| | | Total | 48 | | | |

Prepared By: Swati Sathye         Verified by:Swati Sathye

Approved By: Dr.A.R.Patil

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts,
Science
Kondhwa(Bk.),

| Course: B.Com | |
|---|---|
| Sub Code: 205 | Subject Name: Elements of Company Law |
| B.Com(Second Year) Session Plan - 2017-18 | |

| Course: B.Com | |
|---|---|
| Sub Code: 205 | Subject Name: Elements of Company Law |
| Type of Subject | External |

**No. of Session(s) Per Week : 04**

| Best Book | Title | Author | Publication |
|---|---|---|---|
| Book 1 | Introduction to Company Law | Karn Gupta | LexisNexis |
| Book 2 | company law | cs website | ICSI |

| Sr.No | Topic | Sub Topic | Session | Scheduled Date (Weekwise) | Actual Date (Weekwise) | Background Reading (BR)/ Case (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|
| 6 | E-Governance and E-Filing | 6.1 Introduction- Meaning of E-Governance 6.2 Advantages of E-Governance, 6.3 Basic understanding of MCA Portal6.1 Introduction- Meaning of E-Governance | 4 | 13/11/2017 To 17/11/2017 | 13/11/17 to 17/11/17 | Assignment |
| | | 6.4 E-filing (Ss. 397 to 402), DIN-Directors Identification Number (Ss. 153-159) | 2 | 20/11/2017 To 24/11/2017 | 20/11/17 to 24/11/17 | |
| | | Revision | | | | |
| 7 | Management of Company | 7.1 Board of Directors: Definition, Powers, Restrictions, | 1 | | | |
| | | Prohibition on Board. (Ss. 179 to 183) 7.2 Director: Meaning and Legal position of directors. | 3 | 27/11/2017 to 1/12/2017 | 27/11/17 to 1/12/17 | |
| | | 7.3 Types of Directors – Types including Executive, Non-Executive, Independent, Additional, Alternate, Interested, Nominee Director, Related Party Transactions (Ss. 188)Board. (Ss. 179 to 183) | 4 | 04-12-2017 to 08/12/2017 | 4/12/17 to 8/12/17 | PPT presentation |
| | | 7.4 Appointment of Directors, Qualifications and Disqualifications. 7.5 Powers, Duties, Liabilities of Directors, Remedies for Breach of Duties. 7.6 Loans to Directors (S. 185), Remuneration of Directors | 2 | 11/12/2017 to 15/12/2017 | 11/12 to 15/12 | |
| | | Revision | | | | |
| | | Unit Test | | | | |
| 8 | Key Managerial Personnel (KMP) | 8.1 Meaning, Definition and Appointments of Managing Director, Whole Time Director, Manager, Company Secretary | 4 | 18/12/2017 to 22/12/2017 | 18/12/17 to 22/12/17 | |

| | | | | | |
|---|---|---|---|---|---|
| Key Managerial Personnel (KMP) | Term of office/ Tenure of appointment, Remuneration – 8.2 Distinction between Managing Director, Manager and Whole Time Director - Role (Powers, Functions of above KMP) 8.3 Corporate Social Responsibility (CSR) [U/S 135] – Concept who is Accountable, CSR Committee, Activities under CSR, | 3 | 25/12/2017 to 29/12/2017 | 25/12/17 to 29/12/17 | Assignment |
| | 8.4 Role of Board of Directors. 8.5 Prevention of Oppression and Mismanagement (Ss. 241 to 246) Revision | 3 | 1/1/2018 to 05/1/2018 | 1/1/18 to 05/1/18 | |
| Company Meetings | 9.1 Board Meeting – Meaning and Kinds 9.2 Conduct of Meetings - Formalities of valid meeting [Provisions regarding agenda, notice, quorum, proxies, voting, resolutions (procedure and kinds) minutes, filing of resolutions, Virtual Meeting] | 4 | 08/1/2018 to 12/01/2018 | 8/1/18 to 12/1/18 | |
| | 9.3 Meeting of Share Holders General Body Meetings, Types of Meetings A. Annual General Meeting (AGM), Ss. 96 to 99 B. Extraordinary General Meeting (EOGM) – S. 100 | 4 | 15/01/2018 to 19/01/2018 | 15/1/18 to | Assignment |
| | 9.4 Provisions regarding convening, constitution, conducting of General Meetings contained in Ss. 101 to 114 | 4 | 29/01/2018 to 02/02/2018 | 29/01/18 to 02/02/18 | |
| | Revision | | 05/02/2018 to 09/02/2018 | | |
| | Unit Test | | | | |
| Revival and Re-habilitation of Sick Companies (S. 253-269) 10.2 Compromises, Arrangements and Amalgamation | 10.1 Revival and Re-habilitation of Sick Companies (S. 253-269) 10.2 Compromises, Arrangements and Amalgamation: Concept and | 2 | | 05/02/18 to 09/02/18 | |
| | Purposes of Compromises, Arrangements, Amalgamation, Reconstruction – Fine distinction between these terms.: 10.3 Winding –up: Meaning of winding-up, Dissolution of company, Conceptual understanding of winding-up by the Tribunal, Compulsory | 4 | 12/02/2018 to 16/02/2018 | 12/2/18 to 16/02/18 | Assignment |
| | winding-up, Members' voluntary winding-up, Creditors' | 3 | 19/02/2018 to 23/02/2018 | 19/02/18 to 23/04/8 | |
| | voluntary winding-up | 1 | 26/02/2018 to 28/02/2018 | 26/02/18 to 28/02/18 | |
| | Total | 48 | | | |

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts,
Commerce & Science
Kondhwa(Bk.), Pune-411 048.

Prepared By: Geetanjali kale          Verified by: Swati S. Sathye          Approved by : Dr.A.R.Patil

## B.B.A(I.B.)(Second Year) Session Plan - 2017-18

| Course: B.B.A.(I.B) | | | | | | |
|---|---|---|---|---|---|---|
| Sub Code:401 | | Subject Name: FOREIGN EXCHANGE OPERATIONS | | | | |
| Type of Subject | | External | | | | |
| No. of Session(s) Per Week : 04 | | | | | | |

| Best Book | Title | Author | | Publicat |
|---|---|---|---|---|
| Book 1 | International Economics | Francis Cherunilam | | Tata McGra |
| Book 2 | International Economics | Salvatore D.L. | | Prentic e Hall. |

| Sr. | Topic | Sub Topic | Session | Scheduled Date | Actual | Background Reading (BR)/ Case (C) /Assignment (AS) |
|---|---|---|---|---|---|---|
| UNIT 1 | Balance of Payments | Concept and components of Balance of Trade | 3 | 21/11/2017 to 24/11/2017 | 21/11/2017 to 24/11/2017 | International Economics Francis Cherunilam |
| | | Concept and components of Balance of payment | 4 | 27/11/2017 to 30/11/2017 | 27/11/2017 to 30/11/2017 | |
| | | Equilibrium and Disequilibrium in the Balance of Payments. | 3 | 4/12/2017 to 8/12/2017 | 4/12/2017 to 8/12/2017 | |
| | | UNIT TEST | | | | |
| UNIT 2 | Foreign Exchange Rate | Meaning of exchange rates.Fixed, Flexible and Managed Exchange Rates. | 4 | 11/12/2017 to 15/12/2017 | 11/12/2017 to 15/12/2017 | |
| | | Convertibility of Rupee on Current Account and Capital Account. | 2 | | | |
| | | UNIT TEST | | 18/12/2017 to 22/12/2017 | 18/10/17 to 22/12/2017 | |
| UNIT 3 | Determination of Exchange Rates | Foreign Exchange Market 3.2 Purchasing Power Parity Theory | 1 | | | International Economics Francis Cherunilam Salvatore D.L. |
| | | Spot and Forward transactions | 3 | 25/12/2017 to 29/12/2017 | 1/1/2018 to 5/1/2018 | |
| | | Cross Rates. Exchange Arithmetic on Spot, forward and cross Rate | 4 | 1/1/2018 to 5/1/2018 | 8/1/2018 to 12/1/2018 | |
| | | Arbitrage and speculation. | 4 | 8/1/2018 to 12/1/2018 | 15/1/2018 to 19/1/2018 | |
| | | UNIT TEST | | | | |
| UNIT 4 | Foreign Exchange Control | Meaning and objectives of Exchange Control. Methods of exchange Control | 3 | 15/1/2018 TO 19/1/2018 | 15/1/18 to 19/1/18 | |
| | | FEMA – Introduction and Features | 4 | 29/1/2018 TO 2/2/2018 | 29/1/18 2/2/18 | |
| | | 4.4 FEMA Provisions related to Export and import board features. | 1 | 5/2/2018 to 9/2/2018 | 5/2/18 to 9/2/18. | International Economics Francis Cherunilam Salvatore D.L. |
| | | UNIT TEST | | | | |

12

| | | | | | | |
|---|---|---|---|---|---|---|
| Foreign Trade Contracts and Documents | Inco Terms | 2 | | | | PPT |
| | Letters of Credit –Meaning and types | 3 | 12/2/2018 to 16/2/2018 | १४।२। १८ to १६।२। १८ | | |
| | Documents used in Foreign Trade | 3 | 19/2/2018 to 23/2/2018 | १९।२।१८ to २३।२।१८ | | |
| | Case study | 4 | 26/2/2018 to 28/2/2018 | २६।२।१८ to २८।२।२०१८ | | |
| | | 48 | | | | |

**Prepared By : Suvarna Shinde**   **Verified By : Swati Sathye**   **Approved By : Dr. A. R. Patil**

S.Y.B.Sc. Computer Science  Session Plan - 2017-18  Div - B

Course: S.Y.B.Sc. Computer Science  TERM II
Sub Code:E1- 222    Subject Name: Communication Principles

Type of Subject        External
No. of Session(s) Per Week Per class :  04

| Best Book | Title | Author | | Publication |
|---|---|---|---|---|
| Book 1 | Communication Electronics : Principle | L.E.Frenzel | | 3rd edition Pearson |
| Book 2 | Modern Electronic Communication. | G.M. Miller | | 7th Edition Pearson |
| Book 3 | Wireless Communications and Netwo | William Stallings | | |

| Sr. No. | Topic | Sub Topic | Session | Scheduled Date (Weekly) | Actual Date | Background Reading (BR)/Assignment (AS) : Video Lectures/G.D./PPT Presentation/Website Link |
|---|---|---|---|---|---|---|
| 1 | Introduction to Electronic Communication | of Communication system 1.2 Electromagnetic spectrum, types of communication, serial communication. 1.3 Concepts of communication system: Signal bandwidth, channel bandwidth, data rate, baud rate | 4 | 13/11/2017 To 17/11/2017 | 13/11/17 to 17/11/17 | Assignment - Explain types of signals . Power point presentation - Types of Signals. www.nptel.ac.in |
| | | 1.3 Nyquist theorem, Signal to noise ratio, and channel capacity.          1.4 error handling code- Hamming code, Shannon theorem, and concept of companding. | 4 | 20/11/2017 To 24/11/2017 | 20/11/17 to 24/11/17 | |
| 2 | Modulation and Demodulation | 2.1Introduction to concepts of modulation and demodulation. 2.2 Modulation techniques: Analog modulation: Amplitude, Phase and Frequency modulation | 3 | 27/11/2017 To 1/12/2017 | 27/11/17 to 01/12/17 | |
| | | 2.3Circuit diagram and working of transistorized amplitude modulator and diode demodulator. 2.4 Equation of amplitude modulated wave, modulation index and frequency spectrum. | 4 | 4/12/2017 To 8/12/2017 | 4/12/17 to 8/12/17 | Assignment -Campare Modulation & Demodulation . Power point presentation - Types of Modulation & Demodulation. www.nptel.ac.in |
| | | 2.5 Digital modulation: Pulse Amplitude Modulation (PAM), Pulse Code Modulation (PCM) Block diagram and working, delta modulation circuit | 4 | 11/12/2017 To 15/12/2017 | 11/12/17 to 15/12/17 | |
| | | 2.6 MODEM - concept of ASK, FSK, BPSK, QPSK and block diagram of MODEM using FSK. | 4 | 18/12/2017 To 22/12/2017 | 18/12/17 to 22/12/17 | |
| | Class test | | 1 | 22/12/2017 | | |
| 3 | Multiplexing and Multiple Access Techniques | 3.1 Study of multiplexing and multiple access techniques: Space division multiplexing ,Time division multiplexing, Frequency Division Multiplexing , Code division multiplexing | 3 | 25/12/2017 To 29/12/2017 | 25/12/17 to 29/12/17 | Assignment -Types of Multiplexing . www.nptel.ac.in |
| | | 3.2 spread spectrum techniques: DSSS, FHSS, Introduction to multiple access , | 3 | 1/1/2018 To 5/1/2018 | 1/1/18 to 5/1/18 | |
| | | 3.3Spread spectrum techniques: corresponding access types: FDMA , TDMA , CDMA. | 4 | 8/1/2018 To 12/1/2018 | 8/1/18 to 12/1/18 | |
| 4 | Wireless Communication system | 4.1Introduction to wireless communication system. Need of wireless communication systems. 4.2 Antenna – Introduction, Need, working Principle | 4 | 15/1/2018  To 19/1/2018 | 15/1/18 to 19/1/18 | Assignment -  Asynchronous & Synchronous Serial Com. Power point presentation - GSM,GPRS,Bluetooth www.nptel.ac.in |
| | | 4.3 Parameters of antenna: Gain, directivity, Radiation pattern, Beam width, Bandwidth, front to back ratio (FBR). | 3 | 29/01/2018 To 2/02/2018 | 22/1/18 to 2/1/18 | |
| | | 4.4 Introduction to mobile communication, Cellular concept 4.5 Working of GSM, Hand over, Introduction to GPRS. | 4 | 5/02/2018 To 9/02/2018 | 5/2/18 to 9/2/18 | |
| | | 4.6 Introduction to RFID, Zigbee, Bluetooth and Wi-Fi (Comparison based on range, data rate, frequency, Power). | 3 | 12/02/2018 To 16/02/2018 | 12/2/18 to 16/2/18 | |
| | | Revision | 1 | 19/02/2018 To 20/02/2018 | 19/2/18 to 20/2/18 | |
| | | Total | 48 | | | |

Prepared By: Miss.Poonam Chavan        Verified by: S.D.Chitnis        Approved by : Dr.A.R.Patil

Course:S.Y.B.Sc(Computer Science) Div B
Sub Code: EN 201     Subject Name: English

Type of Subject     External

No. of Session(s) Per Week Per class :  04

| | Best Book | Data Structures Using 'C' | Author | Publication |
|---|---|---|---|---|
| 1 | Book 1 | Literary Vistas | Ed. Board of Editors | Orient Blackswan |
| 2 | Book 2 | | | |
| 3 | Book 3 | | | |
| 4 | Book 4 | | | |

| Sr.No. | Topic | Sub Topic | Session | Scheduled Date (Weekwise) | Actual Date (Weekwise) | Background Reading (BR)/Assignment (AS) : Video Lectures/G.D./PPT Presentation/Website Link |
|---|---|---|---|---|---|---|
| 1 | Communication Skills | Importance, scope, barriers to the communication. Techniques to development of Communication | 2 | 13/11/2017 to 17/11/2017 | 13/11/17 to 17/11/17 | |
| 2 | Communication Skills | Basic Information of Group discussions- preparation of GD. Exercise on Topics, Opning / Closing, proverbs, statements usage while discussing | 3 | | | |
| 3 | Communication Skills | Report writing: Types of Report. News paper Report, Experiment Report, Official Report. | 3 | 20/11/2017 to 24/11/2017 | 20/11/17 to 24/11/17 | |
| 4 | Communication Skills | Interviews : Types of Interview, Mock Interviews, Exercise of Statements. | 2 | 27/11/2017 to 01/12/2017 | 27/11/17 to 01/12/17 | |
| | | Open Book Test | 1 | | | |
| | | Presentations,  Essay writing. | 3 | 04/12/2017 to 08/12/2017 | 04/12/17 to 08/12/17 | |
| 5 | Literature | Paragraph writing, Reviews | 3 | 11/12/2017 to 15/12/2017 | 11/12/17 to 15/12/17 | |
| | | A Cup of Tea- Katherine Mansfield | | | | |
| 6 | Literature | A Cup of Tea- Katherine Mansfield | 1 | 18/12/2017 to 22/12/2017 | 18/12/17 to 22/12/17 | |
| | | A Cup of Tea- Katherine Mansfield | 3 | | | |
| | | With the Photographer- Stephen Leacock | 4 | 26/12/2017 to 29/12/2017 | 26/12/17 to 29/12/17 | |
| | | With the Photographer- Stephen Leacock | | | | |
| 7 | Literature | Open Book Test | 4 | 01/01/2018 to 05/01/2018 | 01/01/18 to 05/01/18 | |
| | | With the Photographer- Stephen Leacock | | | | |
| | | Ozymandias- Percy Bysshe Shelley | 4 | 08/01/2018 to 12/01/2018 | 08/1/18 to 12/1/18 | |

| 8 | | If— Rudyard Kipling | 4 | 15/01/2018 to 19/01/2018 | 15/1/18 to 19/01/18 | |
| 9 | Literature | If— Rudyard Kipling | 3 | 29/01/2018 to 02/02/2018 | 29/01/18 to 02/02/18 | |
| | | Daffodils- William Wordsworth | 4 | 5/02/2018 to 9/02/2018 | 05/02/18 to 09/02/18 | |
| 10 | Literature | Daffodils- William Wordsworth | 3 | 12/02/2018 to 16/02/2018 | 12/02/18 to 16/02/18 | |
| 11 | | Daffodils- William Wordsworth | 1 | 19/02/2018 to 20/02/2018 | 19/02/18 to 20/02/18 | |
| | | **Total** | 48 | | | |

Prepared By: Somprakash Lokhande          Verified by: S.D.Chitnis          Approved by : Dr.A.R.Patil

Course: T.Y.B.Sc(Computer Science)
Sub Code: CS-342

Subject Name : Compiler Construction

Type of Subject          External

No. of Session(s) Per Week Per class :  04

| Best Book | | Principles of Programming And Algorithm | Author | Publication |
|---|---|---|---|---|
| 1 | Book 1 | Compilers: Principles, Techniques, and Tools | Alfred V. Aho, Ravi Sethi, Jeffrey D. Ullman | Narosa Publication House |
| 2 | Book 2 | Principles of Compiler Design | Alfred V. Aho, Jeffrey D. Ullman | |
| 3 | Book 3 | LEX & YACC | Doug Brown, John Levine, Tony Mason | O'reilly Publication |

| Sr.No. | Topic | Sub Topic | Session | Scheduled Date (Weekwise) | Actual Date (Week wise) | Background Reading (BR)/ Case (C) /Assignment (AS) : Video Lectures /GD/PPT Presentation /Website Link |
|---|---|---|---|---|---|---|
| 1 | Introduction | 1.1 Definition of Compiler, Aspects of compilation. 1.2 The structure of Compiler. 1.3 Phases of Compiler – Lexical Analysis, Syntax Analysis, Semantic Analysis, Intermediate Code generation, code optimization, code generation. 1.4 Error Handling | 3 | 19/11/2018 TO 23/11/2018 | 19/11/18 to 23/11/18 | Compilers: Principles, Techniques, and Tools & Principles of Compiler Design , https://www.tutorialspoint.com/compiler.../index.htm |
| | | 1.5 Introduction to one pass & Multipass compilers, cross compiler, Bootstrapping. | 1 | 26/11/2018 TO 30/11/2018 | 26/11/18 to 30/11/18 | Compilers: Principles, Techniques, and Tools & Principles of Compiler Design , https://www.tutorialspoint.co |
| 2 | Memory Allocation | 5.1 Memory allocation – static and dynamic memory allocation, 5.2 Memory allocation in block structure languages, Array allocation and access. | 3 | | | |
| 3 | Lexical Analysis (Scanner) | 2.1 Review of Finite automata as a lexical analyzer, | 1 | 3/12/2018 TO 7/12/2018 | 3/12/18 to 7/12/18 | Compilers: Principles, Techniques, and Tools & Principles of Compiler Design & LEX & YACC , Projector, Assignment, https://www.youtube.com/watch?v=54bo1qaHAfk |
| | | 2.2 Applications of Regular Expressions and Finite Automata ( lexical analyzer, searching using RE), Input buffering, Recognition of tokens | 3 | | | |
| | | 2.3 LEX: A Lexical analyzer generator (Simple Lex Program) | 1 | 10/12/2018 TO 14/12/2018 | 10/12/18 to 14/12/18 | |
| 4 | Syntax Analysis (Parser) | 3.1 Definition , Types of Parsers 3.2 Top-Down Parser – | 3 | | | Compilers: Principles, Techniques, and Tools & Principles of Compiler Design & LEX & YACC , NPTEL Lectures, Assignment |
| | | 3.3 Recursive Descent Parsing : Definition 3.4 Predictive [LL(1)]Parser(Definition, | 4 | 17/12/2018 TO 21/12/2018 | 17/12/18 to 21/12/18 | |
| | | 3.5 Bottom-Up Parsers 3.6 Operator Precedence Parser -Basic Concepts | 3 | 24/12/2018 TO 28/12/2018 | 24/12/18 to 28/12/18 | |
| | | Open Book Test | | | | |
| | | 3.7 Shift Reduce Parser 3.8 LR Parser | 4 | 7/01/2019 TO 11/01/2019 | 7/1/19 to 11/1/19 | |

| | | | | | |
|---|---|---|---|---|---|
| | | 3.8 LR Parser | 3 | 14/01/2019 TO 18/01/2019 | 14/1/19 to 18/1/19 |
| | | 3.9 YACC (from Book 3) –program sections, simple YACC program for expression evaluation | 2 | | |
| 5 | Syntax Directed Definition | 4.1 Syntax Directed Definitions(SDD) 4.1.1 Inherited & Synthesized Attributes | 2 | 21/01/2019 TO 25/01/2019 | 21/1/19 to 25/1/19 |
| | | 4.1.2 Evaluating an SDD at the nodes of a Parse Tree, Example 4.2 Evaluation Orders for SDD's 4.2.1 Dependency Graph 4.2.2 Ordering the Evaluation of Attributes 4.2.3 S-Attributed Definition 4.2.4 L-Attributed Definition 4.3 Application of SDT 4.3.1 Construction of syntax trees, 4.3.2 The Structure of a Type | 4 | 28/01/2019 TO 1/02/2019 | 28/1/19 to 1/2/19 |
| | | 4. 4 Translation Schemes 4.4.1 Definition, Postfix Translation Scheme | 1 | | Compilers: Principles, Techniques, and Tools & Principles of Compiler Design, NPTEL Lectures |
| | | Open Book Test | 1 | | |
| 6 | Code Generation and Optimization | 6.1 Compilation of expression – 6.1.1 Concepts of operand descriptors and register descriptors with example. 6.1.2 Intermediate code for expressions – postfix notations, 6.1.3 triples and quadruples, expression trees. | 2 | 4/02/2019 TO 8/02/2019 | |
| | | 6.2 Code Optimization – Optimizing transformations – compile time evaluation, elimination of common sub expressions, dead code elimination, frequency reduction, strength reduction 6.3 Three address code 6.3.1. DAG for Three address code 6.3.2 The Value-number method for constructing DAG's. 6.4 Definition of basic block, Basic blocks And flow graphs | 4 | 11/02/2019 TO 15/02/2019 | 4/2/19 to 5/2/19 Completed | Compilers: Principles, Techniques, and Tools . & Principles of Compiler Design, Assignment |
| | | 6.5 Directed acyclic graph (DAG) representation of basic block 6.6 Issues in design of code generator | 3 | 18/02/2019 TO 20/02/2019 | |
| | | | 48 | | |

Prepared By: Mrs. Prajakta Patil          Verified by: S.D.Chitnis

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts,
Commerce & Science
Kondhwa(Bk.), Pune-411 048.

**Course: SYBBAIB Sem III**  
**SYBBA IB Session Plan - 2018-19**

**Sub Code: 303  Subject Name: International Economics**

Type of Subject External  
No. of Session(s) Per Week Per class : 04

| Best Book | Title | Author | | Publication |
|---|---|---|---|---|
| Book 1 | International Economics | Dr. D. M. Mithani | | |
| Book 2 | International Economics | Salvatore D.L. | | Prentice Hall. |
| Book 3 | International Economics | Francis Cherunilam | | Tata McGraw Hill |

| Sr. No. | Topic | Sub Topic | Session | Scheduled Date | Actual Date | Background Reading (BR)/ Case (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|
| | | | | **Dates** | | |
| 1 | INTRODUCTION | Meaning, Nature and Scope of International Economics | 4 | 02/07/2018 to 06/07/2018 | 2/7/18 to 6/7/18 | BR 1 & 2 |
| 2 | THEORIES OF INTERNATIONAL TRADE | Inter-regional and International Trade | 2 | 09/07/2018 to 13/07/2018 | 9/7/18 | BR 1 & 2 Assignements on Various Theories of Intrnational Economics |
| | | Adam Smith – Absolute Cost Advantage | 2 | | 13/7/18 | |
| | | Ricardo – Comparative Cost Theory - Theory Expalination Assumptions | 4 | 16/07/2018 to 20/07/2018 | 16/7/18 to 20/7/18 | |
| | | Huckster – Ohlin Theorem Theory Expalination Assumptions | 2 | 23/07/2018 to 27/07/2018 | 23/7/18 to 27/7/18 | |
| 3 | GAINS FROM INTERNATIONAL TRADE | Gains from Trade – Static and Dynamic | 2 | | | |
| | | Class Test | 1 | 31/07 2018 | 1/8/18 | |
| | | Explaination of Gains from Trade and Trade as an engine of Economic Growth | 3 | 30/07/2018 to 03/08/2018 | 30/7/18 to 3/8/18 | BR 1 & 3 |
| 4 | TERMS OF TRADE | Concept of Terms of Trade – Barter Terms of trade | 4 | 06/08/2018 to 10/08/2018 | 6/8/18 to 10/8/18 | |
| | | Barter Terms of trade & Income Terms of Trade. Factors influencing Terms of | 3 | 13/08/2018 to 17/08/2018 | 13/8/18 to 17/8/18 | |
| | | Factors influencing Terms of Trade | 1 | 20/08/2018 to 24/08/2018 | 13/8/18 to 17/8/18 | |
| 5 | | Introduction to Trade policy Concept | 2 | | | |

| | | | | | |
|---|---|---|---|---|---|
| **6** | **TRADE POLICY** | Free Trade Policy – Meaning, arguments for and against. | 3 | 27/08/2018 to 31/08/2018 | 27/8/18 ro 31/8/18 | BR 1 and 3 Assignments on Protectionism and Free Trade Policy |
| | | Protection Policy – Meaning, Arguments for and against. | 4 | 03/09/2018 to 07/09/2018 | 3/9/18 to 7/9/18 | |
| | **INTERNATIONAL ECONOMIC ORGANIZ** | Meaning and Expalnation of Tariff Barriers | 3 | 10/09/2018 to 14/09/2018 | 10/9/18 to 14/9/18 | |
| | | Introduction to International Organisations and their need | 1 | | | |
| | | World Trade Organization (WTO) – Evolution and Functions | 4 | 17/09/2018 to 21/09/2018 | 17/9/2018 to 21/9/2018 | BR 1 & 3 |
| | | International Monetary Fund – Objectives and Functions. World Bank – Objectives and Functions | 3 | 24/09/2018 to 28/09/2018 | 24/9/18 to 28/9/18 | |
| | | **Total** | **48** | | | |

Prepared By: Ms.Madhura Thite     Verified by: Swati Sathye     Approved by : Dr.A.R.Patil

Dr. A. R. Patil
PRINCIPAL
Vishwakarma College of Arts
Commerce & Science
Kondhwa(Bk.), Pune - 411 048.

17

## S.Y.B.Com Session Plan - 2018-19

Course: S.Y.B.Com Term I

Sub Code: 206 E

Type of Subject - External

**Subject Name: Cost & Works Accounting I**

No. of Session(s) Per Week Per class : 04

| Best Book | | Title | Author | Publication |
|---|---|---|---|---|
| | Book 1 | Cost Accounting | S.N. Maheshwari and S.N.Mittal | Mahavir book Depot, New Delhi. |
| | Book 2 | Cost Accounting Principles and Practice | M.N. Arora | Vikas Publishing House Pvt.Ltd. New Delhi. |
| | Book 3 | Cost Accounting Principles and Practice | S.P. Lyengar | Sultan Chand , & Sons Accounting Taxman's, New Delhi |

| Sr. No. | Topic | Sub Topic | Session | Dates Scheduled Date | Actual Date | Background Reading (BR)/ Case (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|
| 1 | Basics Of Cost Accounting | Concept of Cost, Costing, Cost Accounting and Cost Accountancy Limitations of Financial Accounting. | 3 | 2/07/2018 to 6/07/2018 | 2/7/18 to 6/7/18 | Cost Accounting S.N. Maheshwari and S.N.Mittal |
| | | Limitations of Financial Accounting. Origin of Costing. Objectives of Costing. | 4 | 9/07/2018 to 13/07/2018 | 9/7/18 to 13/7/18 | |
| | | Advantages of Costing Limitations of Costing. | 4 | 16/07/2018 to 20/07/2018 | 16/7/18 to 20/7/18 | |
| | | Difference Between Financial Accounting and Cost Accounting. Cost Units and Cost Centre | 4 | 23/07/2018 to 27/07/2018 | 23/7/18 to 27/7/18 | |
| 2 | Elements Of Cost | Cost Centre | 1 | 30/07/2018 to3/08/2018 | 30/7/18 to 3/08/18 | Cost Accounting S.N. Maheshwari and S.N.Mittal , Cost Accounting Principles and Practice M.N. Arora & Assignments on problems of cost sheet |
| | | Material, Labour and other Expenses. Classification of Costs | 3 | | | |
| | | Classification of Costs Preparation of Cost Sheet & Problems on Cost Sheet | 4 | 6/08/2018 to 10/08/2018 | 6/08/18 to 10/08/18 | |
| | | Problems on Cost Sheet | 4 | 13/08/2018 to 17/08/2018 | 13/08/18 to 17/08/18 | |

| Sr. N | Topic | Sub Topic | Session | Scheduled Date | Actual Date | Background Reading (BR)/ Case (C) /Assignment (AS) / |
|---|---|---|---|---|---|---|
| 2 | Element s Of Cost | Problems on Cost Sheet, Quotation | 4 | 20/08/2018 to 24/08/2018 | 20/08/18 to 24/08/18 | Cost Accounting S.N. Maheshwari and S.N.Mittal , Cost Accounting Principles and Practice M.N. Arora & Assignments on problems of cost sheet |
| | | Tenders | 1 | 27/08/2018 to 31/08/2018 | 27/08/18 to 31/08/18 | |
| 3 | Material Control | Class Test Need and Essentials of Material Control. | 2 | | | |
| | | Need and Essentials of Material Control.Functions of Purchase Department. Purchase procedure | 4 | 3/09/2018 to 7/09/2018 | 3/09/18 -to 7/09/18 | Cost Accounting Principles and Practice M.N. Arora, Cost Accounting Principles and Practice S.P. Lyengar & Assignments on problems on EOQ |
| | | Purchase Procedure.   Purchase Documentation | 4 | 10/09/2018 to 14/09/2018 | 10/09/18 to 14/09/18 | |
| | | Purchase Documentation   Stock Levels , | 4 | 17/09/2018 to 21/09/2018 | 17/09/18 to 21/09/18 | |
| | | Economic Order Quantity. (EOQ) Problems on EOQ | 2 | 24/09/2018 to 28/09/2018 | 24/09/18 to 28/09/18 | |
| | | Revision lecture | 2 | 1/10/2018 to 5/102018 | 1/10/18 to 5/10/18 | |
| | | **Total** | 48 | | | |

P.S.Jadhav

Sathye

Arun R. Patil

Dr. Arun R. Patil
PRINCIPAL.
Vishwakarma College of Arts

**Prepared By: Ms.P.S.Jadhav**     **Verified by: Swati Sathye**     **Approved by: Dr.A.R.Patil**

**Course: S.Y.B.Com Term I**
**Sub Code: 206 E**

**Subject Name: Cost & Works Accounting I**

**Type of Subject - External**

**No. of Session(s) Per Week Per class : 04**

| Best Book | | Title | Author | Publication |
|---|---|---|---|---|
| | Book 1 | Cost Accounting | S.N. Maheshwari and S.N.Mittal | Mahavir book Depot, New Delhi. |
| | Book 2 | Cost Accounting Principles and Practice | M.N. Arora | Vikas Publishing House Pvt.Ltd. New Delhi. |
| | Book 3 | Cost Accounting Principles and Practice | S.P. Lyengar | Sultan Chand , & Sons Accounting Taxman's, New Delhi |

| Sr. N o. | Topic | Sub Topic | Session | Dates | | Background Reading (BR)/ Case (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|
| | | | | Scheduled Date | Actual Date | |
| 1 | Basics Of Cost Account ing | Concept of Cost, Costing, Cost Accounting and Cost Accountancy Limitations of Financial Accounting. | 3 | 2/07/2018 to 6/07/2018 | 2/7/18 to 6/7/18 | Cost Accounting S.N. Maheshwari and S.N.Mittal |
| | | Limitations of Financial Accounting. Origin of Costing. Objectives of Costing. | 4 | 9/07/2018 to 13/07/2018 | 9/7/18 to 13/7/18 | |
| | | Advantages of Costing Limitations of Costing. | 4 | 16/07/2018 to 20/07/2018 | 16/7/18 to 20/7/18 | |
| | | Difference Between Financial Accounting and Cost Accounting. Cost Units and Cost Centre | 4 | 23/07/2018 to 27/07/2018 | 23/7/18 to 27/7/18 | |
| 2 | Element s Of Cost | Cost Centre | 1 | 30/07/2018 to3/08/2018 | 30/7/18 to 3/08/18 | Cost Accounting S.N. Maheshwari and S.N.Mittal , Cost Accounting Principles and Practice M.N. Arora & Assignments on problems of cost sheet |
| | | Material, Labour and other Expenses. Classification of Costs | 3 | | | |
| | | Classification of Costs Preparation of Cost Sheet & Problems on Cost Sheet | 4 | 6/08/2018 to 10/08/2018 | 6/08/18 to 10/08/18 | |
| | | Problems on Cost Sheet | 4 | 13/08/2018 to 17/08/2018 | 13/08/18 to 17/08/18 | |

| Sr. No | Topic | Sub Topic | Session | Scheduled Date | Actual Date | Background Reading (BR)/ Case (C) /Assignment (AS) / |
|---|---|---|---|---|---|---|
| 2 | Elements Of Cost | Problems on Cost Sheet, Quotation | 4 | 20/08/2018 to 24/08/2018 | 20/08/18 to 24/08/18 | Cost Accounting S.N. Maheshwari and S.N.Mittal , Cost Accounting Principles and Practice M.N. Arora & Assignments on problems of cost sheet |
| | | Tenders | 1 | 27/08/2018 to 31/08/2018 | 27/08/18 to 31/08/18 | |
| 3 | Material Control | Class Test | | | | |
| | | Need and Essentials of Material Control. | 2 | | | |
| | | Need and Essentials of Material Control.Functions of Purchase Department. Purchase procedure | 4 | 3/09/2018 to 7/09/2018 | 3/09/18 to 7/09/18 | Cost Accounting Principles and Practice M.N. Arora, Cost Accounting Principles and Practice S.P. Lyengar & Assignments on problems on EOQ |
| | | Purchase Procedure. Purchase Documentation | 4 | 10/09/2018 to 14/09/2018 | 10/09/18 to 14/09/18 | |
| | | Purchase Documentation Stock Levels , | 4 | 17/09/2018 to 21/09/2018 | 17/09/18 to 21/09/18 | |
| | | Economic Order Quantity. (EOQ) Problems on EOQ | 2 | 24/09/2018 to 28/09/2018 | 24/09/18 to 28/09/18 | |
| | | Revision lecture | 2 | 1/10/2018 to 5/102018 | 1/10/18 to 5/10/18 | |
| | | Total | 48 | | | |

P.S.Jadhav

Sathye

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts

Prepared By: Ms.P.S.Jadhav    Verified by: Swati Sathye    Approved by: Dr.A.R.Patil

# SYBBA IB Session Plan - 2018-19

| Sub Code:401 | Subject Name: FOREIGN EXCHANGE OPERATIONS (401) | | | | | |
|---|---|---|---|---|---|---|
| **Type of Subject** | External | | | | | |
| **No. of Session(s) Per Week Per class : 04** | | | | | | |
| **Best Book** | | **Title** | **Author** | | | **Publication** |
| | Book 1 | International Economics | Francis Cherunilam | | | Mc Graw Hill |
| | Book 2 | International Business | Hill and Jain | | | Mc Graw Hill |

| Sr. No. | Topic | Sub Topic | Session | Dates | | Background Reading (BR)/ Case (C) /Assignment (AS) / Activity |
|---|---|---|---|---|---|---|
| | | | | Scheduled Date | Actual Date | |
| 1 | Balance of Payments | 1.1 Concept and components of Balance of Trade and Balance of Payments | 4 | 26/11/2018 to 30/11/2018 | 26/11/18 to 30/11/18 | BR 1 and 2 and Assignament on Balance of Payment |
| | | 1.2 Equilibrium and Disequilibrium in the Balance of Payments. | 4 | 3/12/2018 to 7/12/2018 | 3/12/18 to 7/12/18 | |
| 2 | Foreign Exchange Rate | 2.1 Meaning of exchange rates | 2 | 10/12/2018 to 15/12/2018 | 10/12/18 to 15/12/18 | BR 1 and 2 Assignment on Types of Foreign Exchange Rates |
| | | 2.2 Fixed, Flexible and Managed Exchange Rates. | 2 | | | |
| | | 2.3 Convertibility of Rupee on Current Account and Capital Account. | 2 | 18/12/2018 to 21/12/2018 | 18/12/18 to 21/12/18 | |
| 3 | Determination of Exchange Rates | 3.1 Foreign Exchange Market | 2 | | | BR 1 and 2 Assignment on Purchasing Parity Theory |
| | | 3.2 Purchasing Power Parity Theory | 3 | 24/12/2018 to 28/12/2018 | 24/12/18 to 28/12/18 | |
| | | Class Test | 1 | | | |
| | | 3.3 Spot and Forward transactions Cross Rates. | 3 | 9/01/2019 to 12/01/2019 | 14/1/19 to 18/1/19 . | |
| | | 3.4 Exchange Arithmetic on Spot, forward and cross Rates. | 4 | 14/01/2019 to 19/01/2019 | 14/1/19 to 18/1/19 . | |
| | | 3.5 Arbitrage and speculation. | 2 | 21/01/2019 to | | |

| | | | | | |
|---|---|---|---|---|---|
| 4 | Foreign Exchange Control | 4.1 Meaning and objectives of Exchange Control. | 2 | 25/01/2019 | 21/1/19 to 25/1/19 |
| | | 4.2 Methods of exchange Control | 2 | 28/01/2019 to 1/02/2019 | 28/1/19 to 1/2/19 |
| | | 4.3 FEMA – Introduction and Features | 2 | | |
| | | Class Test | | | |
| | | 4.4 FEMA Provisions related to Export and import board features. | 2 | 04/02/2019 to 08/02/2019 | 4/2/19 to 8/2/19 |
| 5 | Foreign Trade Contracts and Documents | 5.1 Inco Terms | 2 | | |
| | | 5.2 Letters of Credit –Meaning and types | 2 | 11/02/2019 to 15/02/2019 | 11/2/19 to 15/2/19 |
| | | 5.3 Documents used in Foreign Trade | 2 | | |
| | | | 2 | 18/02/2019 to 22/02/2019 | |
| | | 5.4 Cases case studies on deficient documentation risks | 2 | | 18/2/19 to 22/2/19 |
| | | | | 25/02/2019 to 1/03/2019 | |
| | | | 1 | | |
| | | Total | 48 | | |

Readings column (col 6):
- Rows 4.1–4.4: BR 1 and 2 Assignment on Exchnge Control Measures and Write up on FEMA
- Rows 5.1–5.4: BR 1 and 2 Other consequent Readings fron Economic Journal for Cases in Foreign Exchange

Prepared By: Ms.Madhura Thite    Verified by: Swati Sathye    Approved by: Dr.A. R. Patil

Dr. A  R. Patil
PR  IPAL
Vishwakarma College of Arts
Commerce Science
Kondhwa(Bk.), Pune - 411 048.

Course:T.Y.B.Sc(Computer Science)
Sub Code: CS-342

Subject Name : Compiler Construction

Type of Subject    External

No. of Session(s) Per Week Per class : 04

| Best Book | | Principles of Programming And Algorithm | Author | | Publication |
|---|---|---|---|---|---|
| 1 | Book 1 | Compilers: Principles, Techniques, and Tools | Alfred V. Aho, Ravi Sethi, Jeffrey D. Ullman | | |
| 2 | Book 2 | Principles of Compiler Design | Alfred V. Aho, Jeffrey D. Ullman | | Narosa Publication House |
| 3 | Book 3 | LEX & YACC | Doug Brown, John Levine, Tony Mason | | O'reilly Publication |

| Sr.No. | Topic | Sub Topic | Session | Scheduled Date (Weekwise) | Actual Date (Week wise) | Background Reading (BR)/ Case (C) /Assignment (AS) : Video Lectures /GD/PPT Presentation /Website Link |
|---|---|---|---|---|---|---|
| 1 | Introduction | 1.1 Definition of Compiler, Aspects of compilation. 1.2 The structure of Compiler. 1.3 Phases of Compiler – Lexical Analysis,Syntax Analysis, Semantic Analysis, Intermediate Code generation, code optimization, code generation. 1.4 Error Handling | 3 | 19/11/2018 TO 23/11/2018 | 19/11/18 to 23/11/18 | Compilers: Principles, Techniques, and Tools & Principles of Compiler Design , https://www.tutorialspoint.com/compiler.../index.htm |
| 2 | Memory Allocation | 1.5 Introduction to one pass & Multipass compilers, cross compiler, Bootstrapping. | 1 | 26/11/2018 TO 30/11/2018 | 26/11/18 to 30/11/18 | Compilers: Principles, Techniques, and Tools & Principles of Compiler Design , https://www.tutorialspoint.co |
| | | 5.1 Memory allocation – static and dynamic memory allocation, 5.2 Memory allocation in block structure languages, Array allocation and access. | 3 | | | |
| 3 | Lexical Analysis (Scanner) | 2.1 Review of Finite automata as a lexical analyzer, | 1 | 3/12/2018 TO 7/12/2018 | 3/12/18 to 7/12/18 | Compilers: Principles, Techniques, and Tools & Principles of Compiler Design & LEX & YACC , Projector, Assignment, https://www.youtube.com/watch?v=54bo1qaHAfk |
| | | 2.2 Applications of Regular Expressions and Finite Automata ( lexical analyzer, searching using RE), Input buffering, Recognition of tokens | 3 | | | |
| 4 | Syntax Analysis (Parser) | 2.3 LEX: A Lexical analyzer generator (Simple Lex Program) | 1 | 10/12/2018 TO 14/12/2018 | 10/12/18 to 14/12/18 | |
| | | 3.1 Definition , Types of Parsers 3.2 Top-Down Parser – | 3 | | | |
| | | 3.3 Recursive Descent Parsing : Definition 3.4 Predictive [LL(1)]Parser(Definition, | 4 | 17/12/2018 TO 21/12/2018 | 17/12/18 to 21/12/18 | Compilers: Principles, Techniques, and Tools & Principles of Compiler Design & LEX & YACC , NPTEL Lectures, Assignment |
| | | 3.5 Bottom-Up Parsers 3.6 Operator Precedence Parser -Basic Concepts | 3 | 24/12/2018 TO 28/12/2018 | 24/12/18 to 28/12/18 | |
| | | Open Book Test | | | | |
| | | 3.7 Shift Reduce Parser 3.8 LR Parser | 4 | 7/01/2019 TO 11/01/2019 | 7/1/19 to 11/1/19 | |

| | | | | 14/01/2019 TO 18/01/2019 | 14/1/19 TO 18/1/19 | |
|---|---|---|---|---|---|---|
| | | 3.8 LR Parser | 3 | 14/01/2019 TO 18/01/2019 | 14/1/19 TO 18/1/19 | |
| | | 3.9 YACC (from Book 3) –program sections, simple YACC program for expression evaluation | 2 | 21/01/2019 TO 25/01/2019 | 21/1/19 TO 25/1/19 | |
| 5 | Syntax Directed Definition | 4.1 Syntax Directed Definitions(SDD) 4.1.1 Inherited & Synthesized Attributes | 2 | | | Compilers: Principles, Techniques, and Tools & Principles of Compiler Design, NPTEL Lectures |
| | | 4.1.2 Evaluating an SDD at the nodes of a Parse Tree, Example 4.2 Evaluation Orders for SDD's 4.2.1 Dependency Graph 4.2.2 Ordering the Evaluation of Attributes 4.2.3 S-Attributed Definition 4.2.4 L-Attributed Definition 4.3 Application of SDT 4.3.1 Construction of syntax trees, 4.3.2 The Structure of a Type | 4 | 28/01/2019 TO 1/02/2019 | 28/1/19 TO 1/2/19 | |
| | | 4.4 Translation Schemes 4.4.1 Definition, Postfix Translation Scheme | 1 | | | |
| | | Open Book Test | 1 | | | |
| 6 | Code Generation and Optimization | 6.1 Compilation of expression – 6.1.1 Concepts of operand descriptors and register descriptors with example. 6.1.2 Intermediate code for expressions – postfix notations, 6.1.3 triples and quadruples, expression trees. | 2 | 4/02/2019 TO 8/02/2019 | | |
| | | 6.2 Code Optimization – Optimizing transformations – compile time evaluation, elimination of common sub expressions, dead code elimination, frequency reduction, strength reduction 6.3 Three address code 6.3.1. DAG for Three address code 6.3.2 The Value-number method for constructing DAG's. 6.4 Definition of basic block, Basic blocks And flow graphs | 4 | 11/02/2019 TO 15/02/2019 | 4/2/19 TO 8/2/19 Completed | Compilers: Principles, Techniques, and Tools . & Principles of Compiler Design, Assignment |
| | | 6.5 Directed acyclic graph (DAG) representation of basic block 6.6 Issues in design of code generator | 3 | 18/02/2019 TO 20/02/2019 | | |
| | | | 48 | | | |

Prepared By: Mrs. Prajakta Patil        Verified by: S.D.Chitnis        Approved by : Dr.A.R.Patil

Bansilal Ramnath Agarwal Charitable Trust's
**Vishwakarma College of Arts, Commerce and Science, Pune.**
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

FF51

**Session Plan (A.Y. 2020-2021)**

Course: TYBSc(CS)

Sub Code: CS-332

**Subject Name: Theoretical Computer Science**

Type of Subject : External / Internal

No. of Session(s)/Periods Per Week : 04

Faculty Name: Prajakta Patil

Source(Weblink):http://www.unipune.ac.in/Syllabi_PDF/revised-2015/science/TY-BSc-Computer-Science_25-06-15.pdf

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (A) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Introduction | 1.1 Symbol, Alphabet, String | 1 | 2/07/2020 to 04/07/2020 | 3)07/2020 | 0) | NIL | | | | https://www.tutorialspoint.com/a omata_theory/index.htm & |
| | | 1.1 Prefix& & Suffix of Strings, Formal Language, Operations on Languages. 1.2 Regular Expressions (RE) : Definition & Example 1.3 Regular Expressions Identities. | 3 | 06/07/2020 to 11/07/2020 | 6/7/2020 7/7/2020 8/7/2020 11/07/2020 | 03 | NIL | | | | https://www.javatpoint.com/autor ta-tutorial |
| 2 | Finite Automata | 2.1 Deterministic finite Automaton – Definition | 1 | 13/07/2020 to 18/07/2020 | 13/7, 14/7, 15/7, 18/7 | 0) | NIL | | | GG | |
| | | DFA as language recognizer, DFA as a pattern recognizer. DFA Examples | 4 | | | | | | | | |
| | | 2.2 Nondeterministic finite automaton – Definition and Examples. 2.3 NFA TO DFA 2.4 NFA with ε- transitions Definition and Examples. 2.5 NFA with ε-Transitions to DFA & Examples | 4 | 20/07/2020 to 25/07/2020 | 20/7, 21/7, 22/7, 25/07 | 04 | NIL | | | | https://www.tutorialspoint.com/a omata_theory/index.htm & https://www.javatpoint.com/auto ata-tutorial |
| | | 2.6 Finite automaton with output – Mealy and Moore machine, Definition and Examples. 2.7 Minimization of DFA, Algorithm & Problem using Table Method | 3 | 27/07/2020 to 01/08/2020 | 27/7/2020 28/08/2020 30/7/2020 | 02 | NIL | | | | |
| | Class test/Home assignment/Mini project/Viva/Case studies | | | 04-08-20 | 4/8/20 | | NIL | | | | |
| 3 | Regular Languages | 3.1 Regular language-Definition and Examples. 3.2 Conversion of RE To FA-Examples. | 3 | 3/08/2020 to 08/08/2020 | 6/8/20(2L) | 02 | NIL | | | GG | https://www.tutorialspoint.com/a omata_theory/index.htm & |
| | | 3.3 Pumping lemma for regular languages and applications. 3.4 Closure properties of regular Languages | 3 | 10/08/2020 to 15/08/2020 | 11/8/20 13/8/20(2L) | 02 | NIL | | | | https://www.javatpoint.com/autor ta-tutorial |
| 4 | Context Free Grammar and Languages | 4.1 Grammar - Definition and Examples. 4.2 Derivation-Reduction - Definition and Examples. | 3 | 17/08/2020 to 22/08/2020 | 18/8, 19/8, 20/8 | 02 | NIL | | | | https://www.tutorialspoint.com/a omata_theory/index.htm & https://www.javatpoint.com/auto ta-tutorial & |
| | | 4.3 Chomsky Hierarchy. 4.4 CFG : Definition & Examples. LMD, RMD, ,Parse Tree 4.5 Ambiguous Grammar : Concept & Examples. | 4 | 24/08/2020 to 29/08/2020 | 25/8, 27/8(2L), 29/8 | 03 | NIL | | | | |
| | | 4.6 Simplification of CFG 4.7 Normal Forms 4.8 Regular Grammar : Definition. | 4 | 31/08/2020 to 05/09/2020 | 03/09(2L) 05/09(2L) | 03 | NIL | | | GM | https://www.gatevidyalay.com/the y-of-automata computation/ |

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|----|-------|-----------|-------------------------|----------------|-------------|----|----|--------------------------------------|--------|----------|---------------------------------------------------------|
| 4 | Context Free Grammar and Languages | 4.9 Closure Properties of CFL's(Union, concatenation and Kleen closure) Method and examples | 1 | 07/09/2020 to 12/09/2020 | 8\|9, 9\|9, 11\|9, 12\|9 | 03 | — | | | | |
| 5 | Push Down Automaton | 5.1 Definition of PDA and examples<br>5.2 Construction of PDA using empty stack and final State method | 3 | | | | | | | | https://www.tutorialspoint.com/automata_theory/index.htm & https://www.javatpoint.com/automata-tutorial |
| | | 5.3 Definition DPDA & NPDA, their correlation and Examples of NPDA<br>5.4 CFG (in GNF) to PDA | 3 | 14/09/2020 to 19/09/2020 | 15\|9, 16\|9 19\|9 (2L) | 3 | — | | | | |
| 6 | Turing Machine | 6.1 The Turing Machine Model and Definition of TM | 1 | | | | | | | | |
| | | 6.2 Design of Turing Machines<br>6.3 Problems on language recognizers<br>6.4 Language accepted by TM | 4 | 21/09/2020 to 26/09/2020 | 22\|9, 23\|9 25\|9, 26\|9 | 04 | — | | | | |
| | | 6.6 Introduction to LBA (Basic Model) &CSG ( Without Problems)<br>6.7 Computing TM, Enumerating TM, Universal TM<br>6.8 Recursive Languages | 3 | 28/09/2020 to 03/10/2020 | 29\|9, 30\|9, 3\|10 | 03 | — | | | | https://www.tutorialspoint.com/automata_theory/index.htm & https://www.javatpoint.com/automata-tutorial |
| | | 6.9 Turing Machine Limitations<br>6.10 Decision Problem, Undecidable Problem, Halting Problem of TM | 2 | 5/10/2020 to 10/10/2020 | 6\|10, 7\|10 | 2 | — | | | | |
| | Revision | | | | 9\|10, 10\|10 13\|10 | | | | | | |
| | Internal Examination | | | | | | | | | | |
| | | Total | 50 | | | | | | | | |

CP-Completed Point
RP-Remaining Point

Subject Teacher Prajakta Patil

Co-ordinator

HOD

Issue no. 1 Rev No. 0   Dt 1.10.2019

Bansilal Ramnath Agarwal Charitable Trust's
# Vishwakarma College of Arts, Commerce and Science, Pune.
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

FF51

**Session Plan (A.Y. 2020 -2021   )**

**Course: FYBSC (CS)**

**Sub Code: ELC 122**

**Subject Name: Basics of Computer Organisation**

**Type of Subject : External / Internal**

**No. of Session(s) Per Week :  3**

**Faculty name: Poonam Chavan**

<u>Source(Weblink)-  http://collegecirculars.unipune.ac.in/sites/documents/Syllabus%202019/F.Y.B.Sc.%20Computer%20Science(Electronic%20Science)_12.072019.pdf</u>

| SN | Topic | Sub Topic | No.of Sessions | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD sign | Background Reading (BR)/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **Dates** | | | | | | |
| 1 | Flip - Flops | 1.1 Introduction | 3 | 08/03/2021 to 13/03/2021 | 08/03 10/03 12/03 | 3 | – | | | | Digital Electronics - Jain R.P., AS - I https://www.tutorialspoint.com/digital_circuits/digital_circuits_flip_flops.htm |
| | | 1.2 Types of Flip-Flops | | | | | | | | | |
| | | 1.3 RS Flip - Flop using NAND gates | | | | | | | | | |
| | | 1.4 Clocked RS FF | 2 | 15/03/2021 to 20/03/2021 | 15/03 17/3 | 3 | – | | | | |
| | | 1.5 D Latch, T FF | | | | | | | | | |
| | | 1.6 J-K Flip Flop | | | | | | | | | |
| 2 | Shift registers and Counters | 2.1 Introduction - Types | 1 | | 18/3 | 1 | – | | | | Digital Electronics - Jain R.P., AS - II |
| | | 2.2 SISO, SIPO, PISO,PIPO | 3 | 22/03/2021 to 27/03/2021 | 22/03 24/03 26/03 | 1 | – | | | | |
| | | 2.3 Ring Counters using D-FF | 2 | 29/03/2021 to 03/04/2021 | 31/03 31/03 | 3 | – | | | | Digital Logic & Computer Design - M.Morris Mano AS - II https://www.tutorialspoint.com/embedded_systems/index.htm |
| | | 2.4 Counters -Synchronous & Asynchronous | | | | | | | | | |
| | | 2.5 3- bit UP counter | | | | | | | | | |
| 2 | Shift registers and Counters | 2.6 3 - bit Down Counter | 3 | 26/04/2021 to 01/05/2021 | 26/04 26/04 27/04 | 3 | – | | | | Digital Fundamentals - Floyd T.M., Jain R.P. AS - II |
| | | 2.7 UP-DOWN counter | | | | | | | | | |
| | | 2.8 Concept of Modulus counter | | | | | | | | | |

| SN | Topic | Sub Topic | No.of Sessions | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD sign | Background Reading (BR)/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | Basics of Computer System | 3.1 Basic Computer Organization | 3 | 03/05/2021 to 08/05/2021 | 3/5, 8/5 | 2 | — | | | | Computer Organization & Architecture - William Stallings AS - III https://www.tutorialspoint.com/basics _of_computers/index.htm |
| | | 3.2 Concept of BUSES | | | | | | | | | |
| | | 3.3 CPU - block diagram & Explanation | 3 | 10/05/2021 to 15/05/2021 | 12/5, 12/5, 15/5 | 2 | — | | | | |
| | | 3.4 Register based CPU organization | | | | | | | | | |
| | | 3.5 Concept of Stack & its Organization | 3 | 17/05/2021 to 22/05/2021 | 19/5, 21/5, 22/05 | 2 | — | | | | |
| | | 3.6 I/O Organization | | | | | | | | | |
| | | 3.7 Need of Interface | 3 | 24/05/2021 to 29/05/2021 | 28/05, 29/05, 29/05 | 2 | — | | | | |
| | | 3.8 Block diagram of general I/O interface | | | | | | | | | |
| 4 | Memory Organization | 4.1 Memory Architecture | 4 | 31/05/2021 to 05/06/2021 | 31/05, 2/6, 4/6, 5/6 | 3 | — | | | | Computer Organization & Architecture - William Stallings AS - IV https://www.tutorialspoint.com/compu ter_fundamentals/computer_memory. htm https://www.geeksforgeeks.org/memor y-organisation-in-computer-architecture/ |
| | | 4.2 Memory Hierarchy | | | | | | | | | |
| | | 4.3 Types of Memories | | | | | | | | | |
| | | 4.4 Data Read/Write Process | 3 | 14/6/2021 to 19/6/2021 | 16/6, 17/6, 19/6 | 2 | — | | | | |
| | | 4.5 Vertical & Horizontal Memory Expansion | | | | | | | | | |
| | | 4.6 Role of Cache Memory | 3 | 21/6/2021 to 26/6/2021 | 23/6, 24/6, 26/6 | 2 | — | | | | |
| | | 4.7 Virtual Memory | | | | | | | | | |
| | Internals | | | | | | | | | | |
| | | Total | 36 | | | | | | | | |

CP: Completed Point
RP: remaining Point

Subject Teacher

Co-Ordinator

HOD

Issue no. 1 Rev No. 0   Dt 1.10.2019

Bansilal Ramnath Agarwal Charitable Trust's

# Vishwakarma College of Arts, Commerce and Science, Pune.

(Affiliated to Savitribai Phule Pune University)

NAAC Accredited with 'B+' Grade

**FF33**

**FF51**

**Session Plan (A.Y. 2020-2021)**

**Course: SYBBA (IB)**

**Sub Code: 302**

**Subject Name: Global Competancies and Personality Development**

**Type of Subject : External/Internal**

**No. of Session(s)/Periods Per Week :  04**

**Faculty Name: Madhura Thite**

Source(Weblink): http://collegecirculars.unipune.ac.in/sites/documents/Syllabus2020/S%20Y%20BBA%20(IB)%20(CBCS%202019%20Patt)%20Sem%20III-IV%20Syllabus_22.062020.pdf

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Understanding Personality and Its Determinants | Define Personality and Different Types of Personalities | 2 | 2/7/2020-4/7/2020 | 2/7/20 to 4/7/20 | 2 | 0 | | | | Book Reading on PD - Personality Development by Swami Vivekanand (Adhyaksha Adwait Ashram) , Personality Development and Soft Skills Barun Mitra (Oxford University Press) PPT on Various Determinants of Personality, Activity Big Five Model and MCQ |
| | | Factors in Association with Five Factor Model, Personality Traits, Determinants | 4 | 6/7/2020-11/7/2020 | 6/7/20 to 11/7/20 | 3 | 0 | | | | |
| | | Developing Positive Personality, Empathy and Emomional Intelligence, Ethics and Values | 4 | 13/7/2020-18/7/2020 | 13/7/20 to 18/7/20 | 4 | 0 | | | | |
| | | (National & International Protocals for Business and Individual) Building Emotional Stability. | 2 | 20/7/2020-25/7/2020 | 20/7/20 to 25/7/20 | 1 | 0 | | | | |
| 2 | Self Awareness and Self Development | Self Asseessment - Finding own personality Type(Personality Trait - Briggs 16 Categories of Personalities) Self Assessment and Goal Seting. | 2 | | | 02 | 0 | | | | Book Reading on PD - Personality Development by Swami Vivekanand (Adhyaksha Adwait Ashram) , Personality Development and Soft Skills Barun Mitra (Oxford University Press) SWOT Analysis of Students and Goal Setting, Johari Window |
| | | | 3 | 27/7/2020-1/8/2020 | 27/7/20 to 1/8/20 | 02 | 0 | | | | |
| | | Class test/Home assignment/Mini project/Viva/Case studies | 1 | | | | | | | | |
| | | Developing Positive self esteem and Confidence Interpersonal Skills/ Social Behaviour, - Johari Window - Understanding different Social Behaviour and Etiquettes in the world | 4 | 3/8/2020 -8/8/2020 | 03/8/20 to 8/8/20 | 04 | 0 | | | | |
| | | Ability to work in Team  Be a Team Player, Adapt Different Cultur & Work Styles Professional & Social Relationship | 3 | 10/8/2020-15/8/2020 | 10/8/20 to 15/8/20 | 63 | 0 | | | | |

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Creating Positive Self Image Buiding Positive Attitude Positive and Critical Thinking Skills, How to Handle Success and Failure | 1 | | | | | | | | Book Reading on PD - Personality Development by Swami Vivekanand (Adhyaksha Adwait Ashram) , Personality Development and Soft Skills Barun Mitra (Oxford University Press) and Activity For Time Managment Case Study and , Use of AV's to understand the Importance of Body Language and |
| | | | 4 | 17/8/2020- 22/8/2020 | 17/8/20 to 22/8/20 | 4 | 0 | | | | |
| 3 | Development of Social & Interpersonal Skills | Manage Work and Life Stress effectively, Importance of Time Management in Building Positive Personality, Motivation - Need of Self Motivation Factors to keep onself Motivated | 4 | 24/8/2020- 29/8/2020 | 24/8/2020 to 29/8/20 | 4 | 0 | | | | |
| | . | Social Etiquettes & Grooming Basics, Body Language - Basic and Projecting Postive Body Language, Dressing Etiquettes and Hygiene, | 3 | 31/8//2020- 5/9/2020 | 31/8/20 to 5/9/20 | 5 | 0 | | | | |
| | Class test/Home assignment/Mini project/Viva/Case studies | | 1 | | | | | | | | Book Reading on PD - Personality Development by Swami Vivekanand (Adhyaksha Adwait Ashram) , Personality Development and Soft Skills Barun Mitra (Oxford University Press) , Activity on Global Competancy , Discussion on Case Studies relevant to toipic |
| 4 | Global Competancies | What are Global Competancies, Core Attributes and Skills, 7 Global Competancies, Need to Globalise an Individual Traits of Globaly Competent Individual, Adaptability- Team Player, Flexibility, People Skills | 4 | 7/9/2020- 12/9/2020 | 7/9/20 to 12/9/20 | 5 | 0 | | | | |
| | | | 4 | 14/9/2020- 19/9/2020 | 14/9/20 to 19/2/20 | 3 | 0 | | | | |
| | | Cross Cultural Adaptiveness, Bridging the Differnece, Cross Cultural Values and Ethics, Global Communication Styles, Business | 4 | 21/9/2020- 26/9/2020 | 21/9/20 to 26/9/20 | 4 | 0 | | | | |
| | Revision | | | 28/09/2020 - 03/10/2020 | - | | | | | | |
| | Revision | | | | | | | | | | |
| | Internal Examination | | | | 24/10/20 to 30/10/20 | | | | | | |
| | | Total | 48 | | | | | | | | |

**CP-Completed Point**
**RP-Remaining Point**

**Subject Teacher: Madhura Thite**
Issue no. 1 Rev No. 0   Dt 1.10.2019

**Co-ordinator**

**HOD**

Bansilal Ramnath Agarwal Charitable Trust's

# Vishwakarma College of Arts, Commerce and Science, Pune.
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

FF51

### Session Plan (A.Y. 2020-2021)

**Course: S.Y.B.Com**
**Sub Code:236E**
**Type of Subject : External / Internal**
**No. of Session(s)/Periods Per Week : 04**
**Faculty Name: Jadhav Poonam Sudhir**

**Subject Name: Cost and Works Accounting -I (BASICS OF COST ACCOUNTING)**

Source(Weblink):http://collegecirculars.unipune.ac.in/sites/documents/Syllabus2020/S%20Y%20B%20COM%20REVISED%20SYLLABUS%20SEM%20III%20(2019%20Patt)_26.062020.pdf

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Dates | | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|----|-------|-----------|-------------------------|-------|---|----|----|----|--------|----------|------|
| | | | | **Scheduled Date** | **Actual Date** | | | | | | |
| 1 | Basics of Cost Accounting | a) Concept of Cost, Costing, Cost Accounting and Cost Accountancy. b) Limitations of Financial Accounting. | 2 | 02/07/2020 to 04/07/2020 | 02/07/20 to 04/07/20 | 02 | – | | | | PowerPoint Presentations Cost Accounting: Methods and Problems B.K.Bhar Academic Publications, Kolkata |
| | | c) Origin of Costing. d) Objectives of Cost Accounting. | 4 | 06/07/2020 to 11/07/2020 | 06/07/20 to 11/07/20 | 02 | | | | | |
| | | e) Advantages & Limitations of Costing. | 4 | 13/07/2020 to 18/07/2020 | 13/07/20 to 18/07/20 | 01 | | | | | |
| | | f) Difference between Financial Accounting and Cost Accounting. | 4 | 20/07/2020 to 25/07/2020 | 20/07/20 to 25/07/20 | 01 | | | | | |
| | | h) Role of a Cost accountant in an organisation | 2 | 27/07/2020 to 31/07/2020 | 27/07/20 to 31/07/20 | 01 | | | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Project/Viva/Case studies | | | | | | | | | | | | |
| 2 | Elements of Cost and Cost Sheet | a) Material, Labour and other Expenses. | 4 | 03/08/2020 to 08/08/2020 | 03/08/20 to 8/08/20 | 01 | | | | | | | | Cost Accounting Theory And Problems S. N. Maheshwari Mittal Shree Mahavir Book Depot. New Delhi , Cost Accounting: Methods and Problems B.K.Bhar Academic Publications, Kolkata |
| | | b) Classification of Costs. | 3 | 10/08/2020 to 15/08/2020 | 10/08/20 to 15/08/20 | 01 | | | | | | | | |
| | | b) Classification of Costs. | 3 | 17/08/2020 to 22/08/2020 | 17/08/20 to 2/08/20 | 01 | | | | | | | | |
| | | c) Preparation of Cost Sheet, | 4 | 24/08/2020 to 29/08/2020 | 24/08/20 to 29/08/20 | 04 | | | | | | | | |
| | | c) Preparation of Cost Sheet, Tender, Quotation and Estimates. | 2 | 31/08/2020 to 05/09/2020 | 31/08/20 to 5/09/20 | 06 | | | | | | | | |
| | Class test/Home assignment/Mini project/Viva/Case studies | | 1 | 07/09/2020 to 12/09/2020 | 07/09/20 to | | | | | | | | | |
| 3 | Purchase Procedure | a) Need and Essentials of Material Control. | 3 | | 12/09/20 | 01 | | | | | | | | Cost Accounting Theory And Problems S. N. Maheshwari Mittal Shree Mahavir Book Depot. New Delhi , |
| | | b) Functions of the Purchase Department. c) Purchase Procedure. | 4 | 14/09/2020 to 19/09/2020 | 14/09/20 to 19/09/20 | 02 | | | | | | | | |
| | | d) Purchase Documentation. | 3 | 21/09/2020 to 26/09/2020 | 21/09/20 to | 01 | | | | | | | | Advanced Cost Accounting And Cost Systems |
| | | a) Methods of Inventory control a. Stock Levels., | 1 | | 25/09/20 | 02 | | | | | | | | Cost Accounting Theory And Problems S. N. |

| 4 | Inventory Control | b. Economic Order Quantity (EOQ). c. ABC analysis d. Perpetual and Periodic Inventory Control e. Physical verification b) Inventory Turnover Ratio | 4 | 28/09/2020 to 03/10/2020 | 28/9/20 to 3/10/20 | 04 | | | | Maheshwari Mittal Shree Mahavir Book Depot. New Delhi , Advanced Cost Accounting And Cost Systems |
|---|---|---|---|---|---|---|---|---|---|---|
| | | b) Inventory Turnover Ratio | 1 | 05/10/2020 to 10/10/2020 | 05/10/20 to 10/10/20 | 01 | | | | |
| | Revision | | | | | | | | | |
| | Internal Examination | | | 24/10/20 to 31/10/20 | | | | | | |
| | | Total | 48 | | | | | | | |

CP-Completed Point
RP-Remaining Point

P.S. Jadhav

**Subject Teacher**
Issue no. 1 Rev No. 0  Dt 1.10.2019

P.S.Jadhav
**Co-ordinator**

**HOD**

Bansilal Ramnath Agarwal Charitable Trust's

# Vishwakarma College of Arts, Commerce and Science, Pune.

(Affiliated to Savitribai Phule Pune University)

NAAC Accredited with 'B+' Grade

**FF51**

**Session Plan (A.Y. 2020-2021)**

Course: SY M.Sc.(CA)

**Sem - III**

Sub Code: CA- CCTP-9

**Subject Name: Artificial Intelligence**

Type of Subject : External / Internal

No. of Session(s)/Periods Per Week : 04

Faculty Name: Rupali D Taware

Source(Weblink):http://collegecirculars.unipune.ac.in/sites/documents/Syllabus%202019/M.Sc.%20(Part-I)%20(Computer%20Applications)%20(Revised)_16.062020.pdf

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Dates | | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|----|-------|-----------|------------------------|-------|--|----|----|--------------------------------------|--------|----------|------|
| | | | | Scheduled Date | Actual Date | | | | | | |
| 1 | Introduction to Artificial Intelligence | What is AI? AI and related fields AI Techniques | 2 | 15/07/2020 to 17/07/2020 | 15/7/20 16/7/20 | 3 | | | | | Computational Intelligence, Eberhart, Elsevier, |
| 2 | Problems, Problem Spaces, and Search | Defining AI problems as a State Space Search: example Production Systems | 4 | 20/07/2020 to 24/07/2020 | 20/7/20 21/7/20 22/7/20 23/7/20 | 2 | | | | | https://www.youtube.com/watch?v=E5 jVBqe59EE |
| | | Search and Control Strategies Problem Characteristics | 4 | 27/07/2020 to 31/07/2020 | 27/7/20 28/7/20 29/7/20 30/7/20 | 2 | | | | Sy | Artificial Intelligence: A New Synthesis, Nilsson, Elsevier |
| | | Additional Problems (Water Jug, 8 puzzle, Missionaries and Cannibles and Block words problem) | 2 | 03/08/2020 to 07/08/2020 | 4/8/20 5/8/20 | 5 | | | | | |
| 3 | Heuristic Search Techniques | Hill Climbing | 2 | | 7/8/20 (⛨) | 1 | 1 | | | | |
| | | Best First Search Problem Reduction | 4 | 10/08/2020 to 14/08/2020 | 10/8/20 11/8/20 12/8/20 13/8/20 | 1 | | | | Sy | www.geeksforgeeks.org |

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Constraint Satisfaction Mean-Ends Analysis | 3 | 17/08/2020 to 21/08/2020 | 17/8/20 18/8/20 19/8/20 20/8/20 | 2 | | 17/8/20 | | | Artificial Intelligence: A New Synthesis, Nilsson, Elsevier |
| | | Approaches to Knowledge Representation Knowledge representation using Propositional and Predicate logic | 4 | 24/08/2020 to 28/08/2020 | 24/8/20 25/8/20 26/8/20 27/8/20 | 3 | | | | Sh | www.upgrad.com |
| | | Class test/Home assignment/Mini project/Viva/Case studies | 1 | 6/8/20 | | . | | | | — | |
| 4 | Knowledge Representation | Conversion to clause form Resolution in Propositional logic | 4 | 31/08/2020 to 04/09/2020 | 31/8/20 2/9/20 3/9/20 4/9/20 | 1 | | | | | Artificial Intelligence: A New Synthesis, Nilsson, Elsevier |
| | | Unification algorithm Resolution in Predicate logic Question answering | 4 | 07/09/2020 to 11/09/2020 | 8/9/20 9/9/20 10/9/20 11/9/20 | 3 | | | | | |
| | | Procedural Vs Declarative knowledge Forward and Backward chaining | 2 | 14/09/2020 to 18/09/2020 | 15/9/20 16/9/20 | 2 | | | | Sh | www.geeksforgeeks.org |
| | | Weak Structures | 2 | | 17/9/20 18/9/20 | 1 | | | | | Computational Intelligence, Eberhart, Elsevier, |
| 5 | Slot – and – Filler Structures | Semantic Networks Frames | 4 | 21/09/2020 to 25/09/2020 | 22/9/20 23/9/20 24/9/20 25/9/20 | 2 | | | | | |
| | | Strong Structures Conceptual Dependencies Scripts | 4 | 28/09/2020 to 02/10/2020 | 29/9/20 30/9/20 31/9/20 1/10/20 | 3 | | | | Sh | www.geeksforgeeks.org |
| | | Class test/Home assignment/Mini project/Viva/Case studies | | | | | | | | | |

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | Game Playing 05 | Overview Minimax Search Procedures | 4 | 5/10/2020 to 10/10/2020 | 6/10/20 7/10/20 8/10/20 9/10/20 | 2 | | | | | Artificial Intelligence: A New Synthesis, Nilsson, Elsevier |
| | | Adding alpha-beta cutoffs | 1 | | 13/10/20 | 1 | | | | | |
| 7 | Statistical Reasoning | Probability and Bayes' theorem Certainty factor: Rule-based Systems | 3 | 12/10/2020 to 16/10/2020 | 14/10/20 15/10/20 (2) | 2 | | | | ॐ | |
| | | Bayesian Network Dempster -Shafer Theory | 2 | 19/10/2020 to 23/10/2020 | 20/10/20 21/10/20 | 2 | | | | | www.geeksforgeeks.org |
| 8 | Learning | What is learning? Rote Learning | 2 | | 22/10/20 23/10/20 | 2 | | | | | Computational Intelligence, Eberhart, Elsevier, |
| | | Learning by taking advice Learning in problem solving Learning from examples Explanation based learning | 3 | 26/10/2020 to 30/10/2020 | 27/10/20 28/10/20 29/10/20 | 4 | | | | ॐ | |
| | Internal | | | | | | | | | | |
| | | Total | 60 | | | | | | | | |

CP-Completed Point
RP-Remaining Point

R.D. Tawar

Subject Teacher

Co-ordinator

HOD

# Vishwakarma College of Arts, Commerce and Science, Pune.

(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

FF51

## Session Plan (A.Y. 2020-2021)

**Course:** SYBBA(CA)

**Sub Code:** 401

**Subject Name:** Computer Netwotk-I

**Type of Subject : External / Internal**

**No. of Session(s)/Periods Per Week :** 04

**Faculty Name: Smita Nagesh Deshmukh**

Source(Weblink):http://collegecirculars.unipune.ac.in/sites/documents/Syllabus2020/S%20Y%20BBA(CA)(CBCS%202019%20Patt)%20Sem%20III%20-%20IV%20Syllabus_22.062020.pdf

| SN | Topic | Sub Topic | No.of Sessions/Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date | Reason | HOD Sign | Books/ Case Study (C)/Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Introduction to Computer Network | 1.1Basics of Computer Network<br>1.1.1Definition<br>1.1.2Goals<br>1.1.3Applications,<br>1.1.4Network Hardware–Broadcast, Point to Point<br>1.1.5Components of Data Communication<br>1.2 Network Topologies<br>1.2.1Mesh<br>1.2.2 Star,<br>1.2.3 Bus,<br>1.2.4Ring | 3 | 08-03-2021 to 13-03-2021 | 08/03/21 to 13/03/21 | 02 | | | | | Data Communication and Networking by Behrouz Forouzan, TATA McGraw Hill. .[4th Edition] |
| | | 1.3 Types of Networks<br>1.3.1LAN,MAN,WAN,<br>1.3.2 Internetwork,<br>1.3.3 Wireless Network<br>1.4 Modes of Communication<br>1.4.1 Simplex,<br>1.4.2 Half Duplex,<br>1.4.3 Full Duplex<br>1.5. Server Based LANs & Peer-to-Peer LANs | 4 | 15-03-2021 to 20-03-2021 | 15/03/21 to 20/03/21 | 03 | | 3/20/2021 | | | Computer Networks by Andrew Tanenbaum, Pearson Education.[4th Edition] |
| | | 1.6. Protocols and Standards<br>1.7. Network Software<br>1.7.1 Protocol Hierarchies,Layers, Peers,Interfaces<br>1.7.2 Design Issues of the Layers<br>1.7.3 Connection Oriented and Connectionless Service | 3 | 22-03-2021 to 27-03-2021 | 22/03/21 to 27/03/21 | 03 | | | | | Computer Networks by Andrew Tanenbaum, Pearson Education.[4th Edition] Data Communication and Networking by Behrouz Forouzan, TATA McGraw Hill. .[4th Edition] |
| 2 | Network Models | 2.1 OSI Reference Model : Functions of each Layer | 1 | | | 01 | | | | | |
| | | 2.2 TCP/IP Reference Model.Comparison of OSI and TCP/IP Reference Model<br>2.3 TCP/IP Protocol Suite | 2 | 29-03-2021 to 31-03-2021 | 29/03/21 to 31/03/21 | 02 | | | | | |
| | | 2.4 Addressing<br>2.4.1Physical Addresses<br>2.4.2 Logical Addresses<br>2.4.3Port Addresses,<br>2.4.4 SpecificAddresses 2.5 IP Addressing<br>2.5.1 ClassfullAddressing<br>2.5.2 Classless Addressing | 6 | 03-05-2021 to 08-05-2021 | 03/05/21 to 08/05/21 | 06 | | | | | Computer Networks by Andrew Tanenbaum, Pearson Education.[4th Edition] |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Transmission Media** | 3.1 Introduction, Types of Transmission Media<br>3.2 Guided Media:<br>3.2.1 Twisted Pair Cable- Physical Structure, Categories, Connectors & Applications<br>3.2.2 Coaxial Cable – Physical Structure, Standards, Connectors & Applications<br>3.2.3 Fiber Optic Cable- Physical Structure, Propagation Modes, Connectors & Applications<br>3.3 Unguided Media:<br>3.3.1 Electromagnetic Spectrum for Wireless Communication<br>3.3.2 Propagation Modes Ground, Sky, Line-of-Sight<br>3.3.3 Wireless Transmission: Radio Waves, Microwaves, Infrared | 6 | 10/05/2021<br>to<br>15/05/2021 | 10/05/21<br>to<br>15/05/21 | 06 | | | | | Data Communication and Networking by Behrouz Forouzan, TATA McGraw Hill. .[4th Edition]<br>https://www.guru99.com/data-communication-computer-network-tutorial.html |
| | **Class Test** | | 1 | | | 01 | | | | | |
| 4 | **Wired and Wireless LAN** | 4.1 IEEE Standards<br>4.2 Standard Ethernet MAC Sublayer, Physical Layer<br>4.3 Fast Ethernet – Goals, MAC Sublayer, Topology, Implementation<br>4.4 Gigabit Ethernet – Goals, MAC Sublayer, Topology, Implementation<br>4.5 Ten-Gigabit Ethernet – Goals, MAC Sublayer, Physical Layer<br>4.6 Backbone Networks -Bus Backbone, Star Backbone<br>4.7 Virtual LANs Membership, IEEE standards advantages<br>4.8 Wireless LAN<br>4.8.1 IEEE 802.11 Architecture,<br>4.8.2 Bluetooth Architecture | 6 | 17-05-2021<br>to<br>22-05-2021 | 17/05/21<br>to<br>22/05/21 | 08 | | | | | Computer Networks by Andrew Tanenbaum, Pearson Education.[4th Edition] |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | Network Devices | Network Devices<br>5.1 Network Connectivity Devices<br>5.1.1 Active and Passive Hubs<br>5.1.2 Repeaters<br>5.1.3 Bridges- Types of Bridges<br>5.1.4 Switches | 2 | | 24/05/21 to 29/05/21 | 02 | | | | | Data Communication and Networking by Behrouz Forouzan, TATA McGraw Hill. [4th Edition] |
| 6 | Network Security | 6.1 Introduction<br>6.2 Need for Security<br>6.3 Security Services :<br>6.3.1 Message- -Confidentiality, Integrity, Authentication, Non repudiation.<br>6.3.2 Entity (User)- Authentication.<br>6.4 Types of Attack<br>6.5 Cryptography, PlainText,Cipher Text, Encryption,Decryption, Symmetric Key and Asymmetric Key Cryptography<br>6.6 SubstitutionTechniques, Caesar Cipher,and Transposition Cipher (Problems should be covered.)<br>6.7 Firewalls- Packet Filter firewall, Proxy firewall<br>6.8 Steganography,Copyright | 5 | 24-05-2021 to 29-05-2021 | 24/05/21 to 29/05/21 | 08 | | | | | Data Communication and Networking by Behrouz Forouzan, TATA McGraw Hill. [4th Edition] |
| | Revision | | | | | | | | | | |
| | Internal Examination | | | | | | | | | | |
| | | Total | 40 | | | | | | | | |

CP-Completed Point
RP-Remaining Point

Subject Teacher          Smita Deshmukh
Issue no. 1 Rev No. 0   Dt 01-10-2019

Co-ordinator

HOD

Bansilal Ramnath Agarwal Charitable Trust's

# Vishwakarma College of Arts, Commerce and Science, Pune.

(Affiliated to Savitribai Phule Pune University)

NAAC Accredited with 'B+' Grade

FF51

Session Plan (A.Y. 2021-2022)

**Course: S.Y.B.Sc.(CS)Div -A**

**Sub Code: ELC - 241**

Subject Name:Embedded System Design

**Type of Subject : External / Internal**

**No. of Session(s)/Periods Per Week : 03**

**Faculty Name: Prajakta S. Lodha**

Source(Weblink):http://collegecirculars.unipune.ac.in/sites/documents/Syllabus2020/S.Y.B.Sc.%20(Computer%20Science)%20Electronics.pdf

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Dates | | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|----|-------|-----------|-------------------------|-------|-------|----|----|--------------------------------------|--------|----------|--------------------------------------------------------|
| | | | | Scheduled Date | Actual Date | | | | | | |
| 1 | Introduction to Embedded systems using single board computers (SBC) | 1.1 Embedded System, 1.2 Single Board Computers 1.3 Single Board Computer block diagram | 3 | 21/03/2022 to 26/03/2022 | 22\|03 24)03 25\|03 | 3 | — | — | — | | Raspberry Pi Hardware Reference by Warren Gay ( Apress) |
| | | 1.4 Comparision of SBC models 1.6 Specifications 1.7 I/O Devices 1.8 Storage , Display, Keyboard and Mouse | 3 | 28/03/2022 to 02/04/2022 | 29\|03 31/03 31\|03 | 4 | — | — | — | | Assignment I: Comparision of SBC Models |
| | | 1.9 Network Access Devices | 2 | 04/04/2022 to 09/04/2022 | 05/04 07\|04 | 1 | — | — | — | | |

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Architecture of System on chip (SOC) | 2.1 Introduction to SoC 2.2 Architecture of SoC | 1 | 04/04/2022 to 09/04/2022 | 08\|04 | 2 | — | — | — | | Rasberry Pi CookBook: Software & Hardware problems and Solutions By Simon Monk(O'Reilly Media Inc.) |
| | | 2.3 Basic version Broad Coprocessor 2.4 Pin Description of Raspberry Pi | 1 | 11/04/2022 to 16/04/2022 | 12\|04 | 2 | — | — | — | Sivy | |
| | | 2.5 Architecture features : CPU Overview, 2.6 CPU Pipeline stages, 2.7 CPU Cache Organization, | 3 | 18/04/2022 to 23/04/2022 | 18\|04\|22 21\|04\|22 22\|04\|22 | 3 | — | → | → | | |
| | | 2.8 Branch Prediction & Folding, 2.9 GPU Overview | 3 | 25/04/2022 to 30/04/2022 | 26\|04\|22 28\|04\|22 29\|04\|22 | 2 | — | | | Sivy | Rasberry Pi User Guide By Eben Upton, Greath Halfacree (John Wiley & Sons, Inc.) |
| | Class test/Home assignment/Mini project/Viva/Case studies | | | | | | | | | | |

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | Programming using Python | 3.1 Overview of Rasberian OS, 3.2 Installation, 3.3 Different types of Operating Systems | 2 | 02/05/2022 to 07/05/2022 | — | — | 3 | Vishwa casnival Programme | | | Learning Python with Rasberry Pi, by Alex Bradbury, Ben Everard, John Wiley & Sons, Inc |
| | | 3.4 Basic Python Programming (Script Programming) 3.5 Variable and data types, 3.6 Flow Control Structures, 3.7 Conditional Statements (If...Then...else) | 3 | 09/05/2022 to 14/05/2022 | 10/05/22 11/05/22 13/05/22 | 6 | — | 14/05/22 (2) | | | |
| | | 3.8 Loops 3.9 Functions: 3.10 I/O function (GPIO, Digital) 3.11 Time Functions, 3.12 Library functions | 2 | 16/05/2022 to 21/05/2022 | 17/05/22 18/05/22 20/05/22 | 5 | — | | | | |
| | | 3.13 Types of Operators 3.14 Basic Arithmatic Programs: Addition, Subtraction, Multiplication, Division | 3 | 23/05/2022 to 28/05/2022 | — | — | 2 | Internal class test. | | | Assignment II: Write Comparision between between different Loops and Operators |

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | Interfacing of devices using Python Programming | 4.1 Basic Interfacing: 4.2 LED, 4.3 Switch, | 2 | 30/05/2022 to 04/06/2022 | 31\|05\|22 02\|06\|22 03\|06\|22 | 5 | — | 01\|06\|22 (2) | | | Learn Raspberry Pi programming with Python By Wolfram Donat ( Apress) |
| | | 4.4 LCD 4.5 Internal Advanced:, 4.6 Bluetooth, 4.7 Wifi, | 2 | 06/06/2022 to 11/06/2022 | 07\|06\|22 09\|06\|22 10\|06\|22 | 4 | — | | | | |
| | | 4.8 Ethernet 4.9 External advanced:, 4.10 Camera. 4.11 Serial Communication GSM, | 3 | 13/06/2022 to 18/06/2022 | 14\|06\|22 16\|06\|22 18\|06\|22 | 4 | — | | | | |
| | | 4.12 Ultrasonic Sensor, 4.13 PIR Sensor, 4.14 Finger Print Reader | 3 | 20/06/2022 to 25/06/2022 | 24\|06\|22 23\|06\|22 24\|06\|22 | 3 | — | | | | |
| | Revision | | | | | | | | | | |
| | Internal Examination | | | | | | | | | | |
| | Class test/Home assignment/Viva | | | | | | | | | | |
| | Total | | 36 | | | | | | | | |

CP-Completed Point
RP-Remaining Point

Subject Teacher

Co-ordinator

HOD

Issue no. 1 Rev No. 0  Dt 1.10.2019

Vishwakarma College of Arts, Commerce and Science, Pune.
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

Session Plan (A.Y. 2021 -2022   )

FF51

Course: TYBSc(CS) Sem V

Sub Code: CS-352

Type of Subject : External / Internal

No. of Session(s)/Periods Per Week :  03

Faculty Name: Smita Deshmukh

Subject Name: Computer Network II

Source(Weblink):http://collegecirculars.unipune.ac.in/sites/documents/Syllabus2021/T.Y.B.Sc.%20(Computer%20Science)_07.07.2021.pdf

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Dates | | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
| | | | | Scheduled Date | Actual Date | | | | | | |
| 1 | Application Layer | Domain Name System<br>☐ Name space-Flat name space, Hierarchical name space<br>☐ Domain Name Space -Label ,Domain name, FQDN,PQDN | 2 | 08-09-2021 to 11-09-2021 | 08\|09  11\|09 | 02 | — | — | | | Network Security Essentials: Applications and Standards (For VTU), William Stallings, 3rd edition, Pearson Education |
| | | Distribution of Domain Name Space-Hierarchy of name servers, zone, Root server, Primary and secondary servers.<br>☐ DNS in the Internet: Generic domains, Country domains,inverse domain<br>☐ Resolution-Resolver,mapping names to address,mapping addresses to names,recursive resolution,iterative resolution,caching | 3 | 13-09-2021 to 18-09-2021 | 13\|09  15\|09  18\|09 | 03 | — | — | | ✓ | Computer Networks by Andrew S Tanenbaum, 4 th/5th edition, Pearson Education |
| | | Electronic Mail-<br>☐ Architecture-First scenario, second scenario, Third scenario, Fourth scenario<br>☐ User agent-services of user agent, types of UA Format of e-mail<br>☐ MIME-MIME header<br>☐ Message transfer agent-SMTP<br>☐ Message Access Agent: POP and IMAP<br>File Transfer | 3 | 20-09-2021 to 25-09-2021 | 20-09  22-09  25-09 | 03 | — | — | | ✓ | |
| | | FTP-Communication over data control connection,File type,data | 2 | 27-09-2021 to 02-09-21 | 27-09  29-09 | 02 | | — | | | |

| | | | Periods | Date | Date | CT | RP | lecture's Date (No.of | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Multimedia | Digitizing audio and video, Audio and Video compression Streaming Stored audio/video ☐ First approach ☐ Second approach ☐ Third approach ☐ Fourth approach Streaming live audio/video | 3 | 04-10-2021 to 09-10-2021 | 04\|10 06\|10 07\|10 | 03 | | — | — | G 09\|10 | Computer Networks by Andrew S Tanenbaum, 4 th/5th edition, Pearson Education |
| | | Real time interactive audio/video- Characteristics, Time relationship, timestamp, Playback buffer, ordering multicasting, translation RTP-Packet format RTCP-Message types | 3 | 11-10-2021 to 16-10-2021 | 11\|10 13\|10 | 02 | 01 | — | 16\|10 Holiday | GU 14\|10 | Network Security Essentials: Applicatio and Standards (For VTU), William Stallings, 3rd edition, Pearson Education |
| | | Voice over IP-SIP,SIP sessionH.323- Architecture, Protocols | 2 | 18-10-2021 to 23-10-2021 | 18\|10 20\|10 22\|10 23\|10 | 03 04 | 01 | 29\|10\|21 | | GU 24\|10 | |
| 3 | Cryptography and Network Security | Terminology: Cryptography, plain text and cipher text, cipher key, categories of cryptography-Symmetric key, asymmetric key Encryption model | 1 | | | | | | | | |
| | | Symmetric key cryptography ☐ Traditional ciphers – substitution cipher, shift cipher, Transposition cipher ☐ Simple Modern ciphers-XOR, Rotation cipher, s-box,p-box ☐ Modern round ciphers-DES ☐ Mode of operation-ECB,CBC,CFB,OFB | 3 | 25-10-2021 to 30-10-2021 | 25\|10 27\|10 29\|10 | 03 | | 29\|10\|21 | | GU | Cryptography and Network Security: Principles and Practice, William Stallings, 7th edition, Pearson Education |
| | | 2.8 Security Challenges Posed by Mobile Devices 2.9 Authentication Service Security 2.10 Attacks on Mobile/Cell Phones | 3 | | 15\|11 17\|11 | 06 | | — | | | |
| | | Asymmetric key cryptography-RSA Security Services ☐ Message confidentiality-With Symmetric key cryptography, with asymmetric key cryptography ☐ Message integrity-Document and fingerprint, message and message digest ☐ Message authentication-MAC,HMAC ☐ Digital signature ☐ Entity Authentication-Passwords, Fixed passwords challenge | 3 | 08-11-2021 to 13-11-2021 | | | | | | GU | |

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Class test/Home assignment/Mini project/Viva/Case studies | 1 | | | | | | | | |
| | | IPSecurity(IPSec) <br> ☐ Two modes <br> ☐ Two security protocols <br> ☐ Services provided by IPSec <br> ☐ Security association <br> ☐ Internet key exchange <br> ☐ Virtual private network | 3 | 15-11-2021 to 20-11-2021 | 22\|11 24\|11 27\|11 | 05 | - | 27\|11\|21 | - | | Computer Security: Principles and Practice -William Stallings and Lawrie Brown, 3rd edition, Pearson, 2015. |
| 4 | Security in the Internet | SSL/TLS <br> ☐ SSL services <br> ☐ Security parameters <br> ☐ Sessions and connections <br> ☐ Four protocols <br> ☐ Transport layer security <br> PGP <br> ☐ Security parameters <br> ☐ Services <br> ☐ PGP algorithms <br> ☐ Key rings <br> ☐ PGP certificates | 3 | 22-11-2021 to 27-11-2021 | 29\|11 01\|12 04\|12 | 01 | - | - | - | | Network Security Essentials: Applications and Standards (For VTU), William Stallings, 3rd edition, Pearson Education |
| | | Firewalls <br> ☐ Packet filter firewall <br> ☐ Proxy firewall | 3 | 29-11-2021 to 4-12-2021 | 06/12 8/12 | 02 | - | | | | |
| | Revision | | | | | | | | | | |
| | Internal | | | | | | | | | | |
| | | Total | | | | | | | | | |

CP-Completed Point
RP-Remaining Point

Subject Teacher

Co-ordinator

HOD

Issue no. 1 Rev No. 0 Dt 1.10.2019

Bansilal Ramnath Agarwal Charitable Trust's

# Vishwakarma College of Arts, Commerce and Science, Pune.

(Affiliated to Savitribai Phule Pune University)

NAAC Accredited with 'B+' Grade

Session Plan (A.Y. 2021-2022)

**Course: F.Y.BBA CA**

**Sub Code: CA-205**

**Subject Name:** Web Technologies

**Type of Subject : External / Internal**

**No. of Session(s)/Periods Per Week :  04**

**Faculty Name: Vaishali Kale**

Source(Weblink):Syllabus%202019/F%20Y%20BBA%20(CA)%20(CBCS%202019%20Patt)%20Sem%20I-II_22.062020.pdf

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Dates | | | | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Scheduled Date | Actual Date | CP | RP | | | | |
| 1 | Introduction | 1.1 Clients- Servers and Communication<br>1.2 Internet-Basic ,Internet Protocols(HTTP,FTP,IP)<br>1.3 World Wide Web(WWW)<br>1.4 HTTP request message, HTTP response message | 4 | 28/03/2022 to 01/04/2022 | 31/3 (2)<br>1/4 (2) | 04 | — | | | | |
| 2 | Web Design | 2.1 Concepts of effective web design<br>2.2 Web design issues including Browser Bandwidth and Cache | 4 | 04/04/2022 to 08/04/2022 | 7/4 (c2)<br>8/4 (2) | 02 | — | | | 8/4 | |
| | | 2.3 Display resolution<br>2.4 Look and Feel of the Website<br>2.5 Page Layout and linking<br>2.6 User centric design<br>2.7 Sitemap | 2 | 11/04/2022 to 13/04/2022 | 11/4/2022(2)<br>12/4/2022(2) 05 | | | | | 13/4 | |
| | | 2.8 Planning and publishing website<br>2.9 Designing effective navigation | 4 | 18/04/2022 to 22/04/2022 | 18/4/2022<br>19/4/2022 02 | | | | | 19/4 | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | HTML | 3.1 Introduction to HTML<br>3.2 Basic HTML Structure<br>3.3 Common HTML Tags | 4 | 25/04/2022 to<br>29/04/2022 | 25/4/22<br>26/4/22 | 3 | — | | CY<br>30/5 | |
| | | 3.4 Physical and Logical HTML<br>3.5 Types of Images, client side and server-side Image<br>mapping<br>3.6 List, Table, Frames | 4 | 02/05/2022 to<br>06/05/2022 | 02/05/22<br>04/05/22<br>5/05/22<br>(2) | 3 | — | | | |
| | | 3.7 Embedding Audio, Video<br>3.8 HTML form and form elements<br>3.9 Introduction to HTML Front Page | 4 | 09/05/2022 to<br>13/05/2022 | 09/05/2022<br>10/05/2022<br>11/05/2022<br>(2) | 3 | — | | | |
| 4 | Style Sheets | 4.1 Need for CSS<br>4.2 Introduction to CSS<br>4.3 Basic syntax and structure | 4 | 16/05/2022 to<br>20/05/2022 | 16/5/2022<br>17/5/2022<br>18/5/2022<br>19/5/202 | 3 | — | | | |
| | | 4.4 Using CSS4.4.1 background images,<br>colors and properties,<br>4.4.2 manipulating texts, using fonts,<br>borders an | 4 | 23/02/2022 to<br>27/02/2022 | 23/05/22<br>24/05/22 | 2 | — | | | |
| | | 4.2 manipulating texts, using fonts, borders<br>and<br>boxes, margins, padding lists, positioning<br>using CSS<br>4.5 Overview and features of CSS2 and<br>CSS3 | 2 | 30/05/2022 to<br>03/06/2022 | 30/5/2022<br>01/5/2022<br>02/5/2022<br>(2) | 2 | — | | GUL<br>order | |

=

| Class test/Home assignment/Mini project/Viva/Case studies | | | 1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | Javascript | 5.1 Introduction to Java Script<br>5.2 Identifier & operator, control structure, functions<br>5.3 Document object model(DOM), | 4 | 06/06/2022 to 10/06/2022 | 06/6/2022 5/6/2022 | 3 | — | | | | | |
| | | 5.4 DOM Objects (window, navigator, history, location)<br>5.5 Predefined functions, math & string functions | 4 | 13/06/2022 to 17/06/2022 | 13/6/2022 14/6/2022 15/6/2022 C2) | 2 | — | | | | | |
| | | 5.6 Array in Java scripts<br>5.7 Event handling in Java script | 2 | 20/06/2022 to 24/06/2022 | | 2 | — | | | | | |
| | Internal Examination | | | | 11/5/22 to 13/5/22 | | | | | | | |
| | | Total | 48 | | | | | | | | | |

CP-Completed Point
RP-Remaining Point
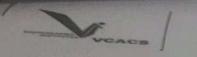
Vaishali Kale
Subject Teacher

Co-ordinator

HOD

Issue no. 1 Rev No. 0  Dt 1.10.2019

12

Bansilal Ramnath Agarwal Charitable Trust's

# Vishwakarma College of Arts, Commerce and Science, Pune.
(Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade

Session Plan (A.Y. 2021 -2022 )

FF51

Course: BBA(CA)

Sub Code: CA-404

Subject Name: Node JS

Type of Subject : External / Internal

No. of Session(s)/Periods Per Week : 4

Faculty Name: Sunila Shivtare

Source(Weblink):http://collegecirculars.unipune.ac.in/sites/documents/Syllabus2020/S%20Y%20BBA(CA)(CBCS%202019%20Patt)%20Sem%20III%20-%20IV%20Syllabus_22.062020.pdf

| SN | Topic | Sub Topic | No.of Sessions/ Periods | Scheduled Date | Actual Date | CP | RP | Extra lecture's Date (No.of lectures) | Reason | HOD Sign | Books/ Case Study (C) /Assignment (AS) / Activity (AT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Introduction to Node JS | 1.1 Introduction<br>1.2 What is Node JS?<br>1.3 Advantages of Node JS<br>1.4 Traditional Web Server Model | 4 | 28/03/2022 to 01/04/2022 | 31/3(2)<br>1/4 (2) 04 | — | — | — | — | | Node.js complete reference guid , velentinBojinov, David Herron, DiogeResende, packt |
| | | 1.5 Node.js Process Model<br>1.6 Install Node.js on Windows<br>1.7 Working in REPL | 4 | 04/04/2022 to 08/04/2022 | 4/4<br>7/4 (2) 4<br>8/4 | — | | — | — | | Mastering Nod.js By SandroPasquali , packt Publishing |
| 2 | Node JS | 2.1 Functions<br>2.2 Buffer<br>2.3 Module | 4 | 11/04/2022 to 13/04/2022 | 12/4(2)<br>13/4(2) 3 | — | | | | | Smashing Node.js Javascript Everywhere |

3

| | Modules | 2.4 Module Types 2.5 Core Modules 2.6 Local Modules | 3 | 18/04/2022 to 22/04/2022 | 18, 21(2) 22/4 | 3 | ÷ | — | | ⟨sign⟩ 22/4 | Smashing Node.js Javascript Everywhere |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Class test/Home assignment/Mini | | 1 | | | | | | | | |
| 3 | Node JS Modules | 2.7 Module Exports | 3 | 25/04/2022 to 29/04/2022 | 25/4 28/4(2) 29/4(2) | -1 | — | - | | ⟨sign⟩ | Node.js complete reference guid , velentinBojinov, David Herron, DiogeResende, packt |
| 4 | Web Server | 4.1 Creating web server 4.2 Handling http requests | 4 | 02/05/2022 to 06/05/2022 | | ② | 2 | Vishwakarma(3) Program | ⟨sign⟩ | | Mastering Nod.js By SandroPasquali , packt Publishing |
| | | 4.3 Sending requests | 2 | 09/05/2022 to 13/05/2022 | | | 1 | Internal | | | |
| | File System | 5.1 fs.readFile 5.2 Writing a File | 2 | | | | 2 | Exam | | | Smashing Node.js Javascript Everywhere |
| | | 5.3 Writing a file asynchronously 5.4 Opening a file 5.5 Deleting a file | 4 | 16/05/2022 to 20/05/2022 | 16/5(2) 19/5(2) 20(5c#) | 3 | — | 20/5 | | | Smashing Node.js Javascript Everywhere |
| | | 5.6 Other IO Operations | 2 | | | | | | | | |
| 6 | Events | 6.1 EventEmitter class 6.2 Returning event emitter | 2 | 23/05/2022 to 27/05/2022 | 23/5(2) 24/5(2) 26/5(2) | 2 | — | 24/5 27/5 | | ⟨sign⟩ | Smashing Node.js Javascript Everywhere |
| | | 6.3 Inheriting Events | 2 | | 27(2) | 2 | - | | | | Smashing Node.js Javascript Everywhere |
| | Class test/Home assignment/Mini | | | 30/05/2022 to 03/06/2022 | 30/5(2) | | | 1 | | | |
| 7 | Database Connectivity | 7.1 Connection String 7.2 Configuring | 2 | | 1/6(2) | 2 | - | | | | |
| | | 7.3 Working with select command 7.4 Updating records | 4 | 06/06/2022 to 10/06/2022 | 6/6 6/6(2) 8/6 6/6(2) 9/6,10/6(2) | 2 | - | 8/6 9/6 10/6 | | | Smashing Node.js Javascript Everywhere |
| | | 7.5 Deleting records | 2 | 13/06/2022 to 17/06/2022 | 15/6.(2) | 1 | - | | | ⟨sign⟩ | Smashing Node.js Javascript Everywhere |

32

| | | | | | 11/5/22 to 13/5/22 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Internal Examination | | | | | | | | | | | |
| | Total | | 48 | | | | | | | | |

CP-Completed Point
RP-Remaining Point

**Subject Teacher**

**Co-ordinator**

**HOD**

Issue no. 1 Rev No. 0   Dt 1.10.2019

# Continuous Internal Assessment

# NOTICE
## SY B.Com. CONTINOUS INTERNAL EVALUATION

Date :18th April 2022

Sem -IV

All students are hereby inform that the INTERNAL ASSESSMENT for CBCS evaluation is as follows:

| Sr. No. | Subject | Assignment Questions |
|---|---|---|
| 1 | Business communication -II | Q 1. Define 'Report' Explain the structure of report.<br>Q. 2 Explain the goals and guidelines of negative reporting.<br>Q. 3 Explain the types of report.<br>Q. 4 Explain the guidelines for writing Persuasive Report. |
| 2 | Corporate accounting -II | Q 1. Define Holding Company & Subsidiary Company.<br>Q. 2. Write Short notes on -<br>a) Minority Interest<br>b)Goodwill<br>c) Inter company Owings<br>d)Capital Profit / Loss<br>e) Revenue Profit / Loss. |
| 3 | Business Economics (macro) - II | Q1. Money and Functions of Money<br>Q2. Classical Approach<br>Q3. Keynesian Approach<br>Q4. Credit Control Methods |
| 4 | Business Management II | Q.I Long Answers<br>1. Define Motivation. Explain in detail about the Maslow's Hierarchy of Needs Theory.<br>2. Discuss in brief about the styles of Leadership.<br>Q.II Write Short notes<br>1. Importance of Motivation<br>2. Theory X and Y<br>3. Functions of Leader<br>4. Qualities of Leadership. |

1

| Sr. No. | Subject | Assignment Questions |
|---------|---------|---------------------|
| 5 | Company law II | Q 1. Discuss the provisions of appointment of Director.<br>Q 2. Write the Role and Responsibilities of Directors<br>Q 3. Elaborate the Provisions of Remuneration of Directors as per Indian Companies Act, 2013 |
| 6 | Business Administration II | 1) Compliance of legal requirements for Promoting a Business unit.<br>2) Discuss in detail about the various Acts related to promotion and Establishment of Business Unit.<br>3) Explain the Registration Process of Business. 4) Explain in detail about the Licensing in India. |
| 7 | Cost & works accounting II | Q.1 Explain Functions and Duties of Storekeeper<br>Q.2 Classification and Codification<br>Q.3 Use of Computer in stores Accounting<br>Q.4 Time Keeping and Time Booking |

Note :

1. All the students should write the above Internal Assignment on Pages.

2. Mention Full Name , Roll no. on Hardcopy

3. It is considered for INTERNAL ASSIGNMENT -II for CBCS evaluation.

4. Students should be responsible for non evaluation.

5. Submission date for all subjects- 9th to 13th May 2022

**Class Teacher**          P.S. Jadhav
                          **Co-ordinator**                                    **HOD**

2

# SAVITRIBAI PHULE PUNE UNIVERSITY
## Bansilal Ramnath Agarwal Charitable Trust's
## Vishwakarma College of Arts, Commerce and Science, Pune.
### (Affiliated to Savitribai Phule Pune University)
### NAAC Accredited with 'B+' Grade
### NOTICE
### INTERNAL EXAMINATION TIME TABLE
#### (Academic Year 2021-22 - May 2022)
#### FYBCOM (Semester -II)

| Day & Date | Sub. Code | Subject | Time |
|---|---|---|---|
| Monday 30th May 2022 | 121 | Compulsory English- II | 8:00 am to 8:30 am |
| | 122 | Financial Accounting- II | 8:30 am to 9:00 am |
| Tuesday 31st May 2022 | 123 | Business Economics (Micro) - II | 8:00 am to 8:30 am |
| | 124 A | Business Mathematics and Statistics - II | 8:30 am to 9:00 am |
| | 124 B | Computer Concepts & Applications - II | |
| Wednesday 1st June 2022 | 125 B | Banking & Finance -II | 8:00 am to 8:30 am |
| | 126 A | Essentials of E- Commerce -II | 8:30 am to 9:00 am |
| | 126 C | Marketing and Salesmanship-II | |
| | 127 B | Marathi II | 9:30 am to 10:30 am |
| | 127 C | Hindi II | |

**Note:- Identity Card is compulsory for exam**

| | |
|---|---|
| 107 | 1001-1045 =45 |
| 205 | 1046-1090 =45 |
| 210 | 1091-1115=25 |
| 003' | 1115-1135=20 |
| B105 | 1136-1151=16 |

P.S Jadhav
**Coordinator**

**HOD**

**Principal**

1

## BRACT's
## Vishwakarma College of Arts, Commerce and Science, Pune-48
### SY B Com Semester III (2021-22)
### Continuous Internal Evaluation Marksheet

| Sr. | Seat | Roll | Students' Name | BC - I | CA - | BE - | BM - | ECL - | BA - | CWA - | Total | % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 38461 | 1401 | Ahuja Vandana Mohan | 24 | 23 | 23 | 21 | 27 | | 21 | 139 | 77% |
| 2 | 38352 | 1402 | Aliasgar Modi | 18 | 17 | 17 | 17 | 18 | | 18 | 105 | 58% |
| 3 | 38373 | 1403 | Awad Avishkar Sudhakar | 26 | 24 | 25 | 25 | 25 | 26 | | 151 | 84% |
| 4 | 38374 | 1404 | Bablad Madhulika | 24 | 22 | 26 | 25 | 26 | 26 | | 148 | 82% |
| 5 | 38372 | 1405 | Bagde Abhishek Ashok | 24 | 25 | 22 | 23 | 25 | 25 | | 144 | 80% |
| 6 | 38375 | 1406 | Bapte Nishad Sanjay | 29 | 24 | 24 | 24 | 25 | 25 | | 151 | 84% |
| 7 | 38462 | 1407 | Bhagchandani Tanay | 23 | 22 | 23 | 20 | 26 | | 23 | 135 | 75% |
| 8 | 38376 | 1408 | Bhayani Sankalp Vipul | 20 | 20 | 18 | 19 | 18 | 19 | · | 114 | 63% |
| 9 | 38463 | 1409 | Bhise Sakashi Pralhad | 26 | 24 | 27 | 24 | 29 | | 25 | 155 | 86% |
| 10 | 38377 | 1410 | Bhong Vinayak Vijay | 27 | 22 | 18 | 25 | 18 | 17 | | 127 | 71% |
| 11 | 38378 | 1411 | Bhosale Pratik Shankar | 17 | 20 | 21 | 21 | 20 | 21 | | 120 | 66% |
| 12 | 38379 | 1412 | Bhosale Sahil Manish | 24 | 21 | 22 | 24 | 21 | 23 | | 135 | 75% |
| 13 | 38464 | 1413 | Bodul Mohit Purushottam | 25 | 25 | 26 | 28 | 24 | | 26 | 154 | 86% |
| 14 | 38380 | 1414 | Bomble Atharva | 23 | 20 | 29 | 24 | 23 | 22 | | 140 | 78% |
| 15 | 38381 | 1415 | Borkar Pushkar Sunil | 28 | 29 | 27 | 28 | 28 | 28 | | 168 | 93% |
| 16 | 38382 | 1416 | Chavan Sanjana Sanjay | 27 | 28 | 29 | 27 | 29 | 27 | | 167 | 93% |
| 17 | 38383 | 1417 | Choudhary Anil Lalaram | 25 | 25 | 26 | 24 | 23 | 25 | | 148 | 82% |
| 18 | 38365 | 1418 | Choudhary Jeet | 25 | 24 | 26 | 24 | 27 | | 25 | 151 | 84% |
| 19 | 38384 | 1419 | Chouhan Darshan | 26 | 24 | 24 | 20 | 24 | 29 | | 146 | 81% |
| 20 | 38385 | 1420 | Dahodwala Taha | 29 | 27 | 26 | 25 | 26 | 26 | | 159 | 88% |
| 21 | 38466 | 1421 | Dave Anuj Ashwin | 25 | 25 | 24 | 26 | 26 | | 26 | 152 | 84% |
| 22 | 38467 | 1422 | Deokar Atharva Ramesh | 27 | 24 | 26 | 26 | 26 | | 24 | 152 | 84% |
| 23 | 38468 | 1423 | Desai Prathamesh Sanjay | 26 | 26 | 24 | 27 | 27 | | 25 | 155 | 86% |
| 24 | 38366 | 1424 | Dhume Atharva Somnath | 24 | 20 | 23 | 20 | 21 | | 20 | 127 | 71% |
| 25 | 38419 | 1425 | Didolkar Nishad Ajit | 26 | 25 | 25 | 26 | 29 | 28 | | 159 | 88% |
| 26 | 38469 | 1426 | Disha Singh Pambar | 27 | 28 | 28 | 29 | 28 | 29 | | 169 | 94% |
| 27 | 38470 | 1427 | Gandhi Mitali Jasraj | 26 | 27 | 27 | 28 | 29 | | 28 | 165 | 91% |
| 28 | 38471 | 1428 | Garg Chirag Sanjay | 23 | 28 | 25 | 28 | 26 | 26 | | 156 | 86% |
| 29 | 38386 | 1429 | Giri Yukta Dnyaneshwar | 27 | 26 | 26 | 25 | 24 | 26 | | 154 | 86% |
| 30 | 38388 | 1430 | Gohil Manthan Girish | 25 | 22 | 28 | 20 | 18 | 20 | | 133 | 74% |
| 31 | 38389 | 1431 | Gole Rutuja Adinath | 23 | 23 | 26 | 23 | 27 | 26 | | 147 | 81% |
| 32 | 38472 | 1432 | Gowda Vindhya | 29 | 30 | 29 | 29 | 29 | | 30 | 176 | 98% |
| 33 | 38473 | 1433 | Gujar Karan Manoj | 27 | 25 | 24 | 25 | 26 | 26 | | 153 | 85% |
| 34 | 38474 | 1434 | Gujar Kunal Milind | 28 | 24 | 24 | 26 | 22 | 23 | | 147 | 82% |
| 35 | 38392 | 1435 | Gupta Adarsh Sanjay | 22 | 20 | 21 | 21 | 24 | 21 | | 129 | 72% |
| 36 | 38422 | 1436 | Gurav Padmaja Sanjay | 14 | 21 | 21 | 14 | 24 | 23 | | 117 | 65% |
| 37 | 38451 | 1437 | Gurjar Sunita Ratanlal | 29 | 29 | 29 | 29 | 28 | 29 | | 173 | 96% |
| 38 | 38393 | 1438 | Hussain Kukshi | 22 | 25 | 28 | 25 | 26 | 22 | | 148 | 82% |
| 39 | 38515 | 1439 | Hussain Munshi | 22 | 21 | 26 | 23 | 26 | 24 | | 141 | 78% |
| 40 | 38476 | 1440 | Inamdar Poorva Vinayak | 27 | 27 | 27 | 27 | 26 | | 27 | 161 | 89% |
| 41 | 38394 | 1441 | Jadhav Aishwarya Vinod | 24 | 24 | 26 | 25 | 25 | 24 | | 148 | 82% |
| 42 | 38395 | 1442 | Jadhav Gaurav Rajesh | 21 | 24 | 25 | 25 | 26 | 22 | | 143 | 79% |
| 43 | 38396 | 1443 | Jadhav Yashraj Vinod | 25 | 26 | 26 | 26 | 22 | 23 | | 148 | 82% |
| 44 | 38397 | 1444 | Jain Tejas Anil | 21 | 23 | 26 | 22 | 26 | 23 | | 140 | 78% |
| 45 | 38398 | 1445 | Jain Yash Amrutlal | 26 | 21 | 24 | 20 | 27 | 20 | | 137 | 76% |
| 46 | 38477 | 1446 | Jaiswal Aniket Dinanath | 21 | 21 | 27 | 21 | 20 | | 22 | 132 | 73% |
| 47 | 38478 | 1447 | Jamdar Aditi Ajit | 27 | 26 | 25 | 26 | 25 | | 27 | 156 | 87% |

| # | ID | Code | Name | | | | | | | | Total | % |
|---|----|------|------|---|---|---|---|---|---|---|-------|---|
| 48 | 38479 | 1448 | Jangid Manish Shyamlal | 25 | 24 | 27 | 26 | 26 | | 25 | 153 | 85% |
| 49 | 38399 | 1449 | Jha Sonukumari | 29 | 29 | 29 | 28 | 29 | 29 | | 173 | 96% |
| 50 | 38400 | 1450 | Kabbur Kunal Anand | 26 | 26 | 24 | 26 | 26 | 26 | | 154 | 85% |
| 51 | 38480 | 1451 | Kabya Nirala | 29 | 28 | 29 | 29 | 29 | | 29 | 172 | 96% |
| 52 | 38401 | 1452 | Kadam Shree Nitin | 18 | 19 | 21 | 19 | 22 | | 20 | 119 | 66% |
| 53 | 38404 | 1453 | Kamthe Swaraj Mohan | 26 | 22 | 24 | 20 | 22 | 20 | | 133 | 74% |
| 54 | 38355 | 1454 | Kamthe Yash Pradeep | 22 | 24 | 22 | 20 | 22 | 23 | | 133 | 74% |
| 55 | 38405 | 1455 | Kapadia Isha Rohit | 27 | 26 | 26 | 26 | 27 | 26 | | 157 | 87% |
| 56 | 38420 | 1456 | Kaswa Niteshkumar | 21 | 22 | 22 | 23 | 21 | 21 | | 130 | 72% |
| 57 | 38387 | 1457 | Kawediya Giten Bharat | 27 | 26 | 26 | 25 | 26 | 27 | | 157 | 87% |
| 58 | 38406 | 1458 | Kedari Swaroop | 24 | 23 | 26 | 24 | 26 | 25 | | 147 | 82% |
| 59 | 38407 | 1459 | Khadija Aziz Manasawala | 26 | 29 | 28 | 29 | 29 | 27 | | 168 | 93% |
| 60 | 38408 | 1460 | Khaire Isha Bapu | 27 | 26 | 28 | 25 | 26 | 29 | | 161 | 89% |
| 61 | 38481 | 1461 | Khan Aman Mohammad | 27 | 23 | 24 | 23 | 21 | | 21 | 139 | 77% |
| 62 | 38482 | 1462 | Koley Pinky Lakshmi | 26 | 26 | 28 | 26 | 27 | | 25 | 158 | 88% |
| 63 | 38409 | 1463 | Kolte Abhishek Sunil | 24 | 26 | 25 | 28 | 26 | 23 | | 152 | 84% |
| 64 | 38483 | 1464 | Krishna Binesh Dharman | 26 | 28 | 26 | 28 | 26 | | 26 | 159 | 88% |
| 65 | 38484 | 1465 | Kuwad Kajal Harshad | 28 | 28 | 29 | 29 | 28 | | 29 | 171 | 95% |
| 66 | 38506 | 1466 | Mahata Sujata | 28 | 29 | 29 | 28 | 29 | | 28 | 171 | 95% |
| 67 | 38411 | 1467 | Mahima Jain | 27 | 24 | 26 | 25 | 27 | 26 | | 155 | 86% |
| 68 | 38490 | 1468 | Mansi Naik Machindra | 27 | 25 | 26 | 26 | 25 | | 26 | 155 | 86% |
| 69 | 38412 | 1469 | Marane Vaibhavi Sachin | 24 | 26 | 27 | 24 | 22 | 23 | | 146 | 81% |
| 70 | 38486 | 1470 | Mardhekar Sakshi | 23 | 26 | 26 | 28 | 29 | | 27 | 159 | 88% |
| 71 | 38487 | 1471 | Mehra Saksham Girish | 29 | 24 | 26 | 26 | 27 | | 26 | 158 | 88% |
| 72 | 38371 | 1472 | Mehta Aarya Hemal | 26 | 24 | 26 | 23 | 24 | 26 | | 149 | 83% |
| 73 | 38488 | 1473 | Modhave Sakshi Raju | 29 | 28 | 28 | 26 | 26 | | 28 | 165 | 91% |
| 74 | 38441 | 1474 | More Sayali Vijay | 27 | 26 | 28 | 26 | 27 | 26 | | 160 | 89% |
| 75 | 38489 | 1475 | Mudaliar Riva | 26 | 23 | 25 | 23 | 27 | | 27 | 151 | 84% |
| 76 | 38414 | 1476 | Murtaza Naharpurawala | 26 | 26 | 26 | 25 | 24 | 26 | | 153 | 85% |
| 77 | 38415 | 1477 | Nair Anushka Chandran | 26 | 26 | 25 | 26 | 24 | 25 | | 152 | 84% |
| 78 | 38410 | 1478 | Nangare Komal | 26 | 26 | 27 | 26 | 23 | 26 | | 154 | 86% |
| 79 | 38417 | 1479 | Navgire Rohan | 27 | 22 | 25 | 23 | 22 | 24 | | 143 | 79% |
| 80 | 38418 | 1480 | Nikam Nayan Nandkumar | 27 | 22 | 21 | 23 | 23 | 24 | | 140 | 78% |
| 81 | 38437 | 1481 | Nishad Rajkumari | 29 | 28 | 29 | 28 | 28 | 28 | | 170 | 94% |
| 82 | 38447 | 1482 | Nishad Shivkumari | 28 | 29 | 28 | 28 | 28 | 28 | | 169 | 94% |
| 83 | 38421 | 1483 | Oswal Jainam Nitin | 26 | 23 | 24 | 26 | 28 | 29 | | 156 | 87% |
| 84 | 38364 | 1484 | Oswal Saakshi Vikram | 25 | 24 | 23 | 24 | 24 | 23 | | 143 | 79% |
| 85 | 38434 | 1485 | Palange Pranav Sanjay | 21 | 18 | 22 | 22 | 24 | 26 | | 133 | 74% |
| 86 | 38491 | 1486 | Palekar Kunal Sanjay | 28 | 26 | 27 | 25 | 28 | | 29 | 163 | 91% |
| 87 | 38475 | 1487 | Panse Haripriya Surendra | 29 | 29 | 29 | 28 | 28 | | 29 | 172 | 95% |
| 88 | 38423 | 1488 | Pardeshi Aditya Santosh | 23 | 18 | 23 | 26 | 22 | 20 | | 132 | 73% |
| 89 | 38424 | 1489 | Pardeshi Mrunal Kishor | 21 | 20 | 22 | 20 | 18 | 19 | | 120 | 67% |
| 90 | 38493 | 1490 | Patadiya Pratham Sanjay | 21 | 22 | 26 | 27 | 26 | | 24 | 146 | 81% |
| 91 | 38425 | 1491 | Patel Hetavi Nilesh | 26 | 27 | 26 | 26 | 27 | 27 | | 159 | 88% |
| 92 | 38426 | 1492 | Patel Jay Jitendrakumar | 22 | 18 | 26 | 25 | 26 | 23 | | 140 | 78% |
| 93 | 38369 | 1493 | Patel Pratham Haresh | 28 | 26 | 28 | 28 | 26 | | 27 | 163 | 90% |
| 94 | 38427 | 1494 | Patel Sangita Bhiyaram | 27 | 28 | 29 | 25 | 29 | 29 | | 167 | 93% |
| 95 | 38494 | 1495 | Patil Mukund Anand | 24 | 27 | 27 | 24 | 27 | | 18 | 147 | 82% |
| 96 | 38429 | 1496 | Pawar Siddhi Vijay | 26 | 23 | 26 | 26 | 26 | 24 | | 149 | 83% |
| 97 | 38495 | 1497 | Pawar Vishal Pradeep | 23 | 26 | 24 | 26 | 26 | | 24 | 149 | 83% |
| 98 | 38359 | 1498 | Pevekar Numan Naeem | 24 | 26 | 26 | 23 | 24 | 24 | | 147 | 81% |
| 99 | 38496 | 1499 | Pise Kavesh Vijay | 27 | 25 | 27 | 24 | 23 | | 22 | 148 | 82% |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 38497 | 1500 | Pise Prathamesh Anil | 25 | 26 | 27 | 24 | 27 | | 23 | 152 | 84% |
| 101 | 38431 | 1501 | Poojari Shreya Shekhar | 24 | 22 | 26 | 27 | 28 | 26 | | 153 | 85% |
| 102 | 38432 | 1502 | Porwal Rishika Bharat | 20 | 18 | 24 | 22 | 24 | 26 | | 134 | 74% |
| 103 | 38433 | 1503 | Prajapati Dhiraj | 29 | 26 | 28 | 29 | 26 | 28 | | 166 | 92% |
| 104 | 38436 | 1504 | Rachita Singh Prajapti | 28 | 29 | 28 | 29 | 29 | 29 | | 172 | 96% |
| 105 | 38498 | 1505 | Raisoni Kushal Manoj | 29 | 28 | 27 | 24 | 25 | | 27 | 160 | 89% |
| 106 | 38499 | 1506 | Rajpurohit Manas Dalpat | 26 | 23 | 24 | 21 | 21 | | 23 | 137 | 76% |
| 107 | 38438 | 1507 | Rangapure Ashish Sachin | 17 | 16 | 21 | 16 | 18 | 22 | | 110 | 61% |
| 108 | 38430 | 1508 | Rathod Pooja Hari | 27 | 26 | 28 | 27 | 26 | 28 | | 162 | 90% |
| 109 | 38439 | 1509 | Sakshi Gholap | 29 | 28 | 29 | 29 | 29 | 29 | | 173 | 96% |
| 110 | 38440 | 1510 | Sanmane Pratiksha Ashok | 23 | 25 | 26 | 26 | 28 | 24 | | 152 | 84% |
| 111 | 38442 | 1511 | Sayyed Aqsa Sikandarali | 24 | 20 | 24 | 25 | 24 | 26 | | 143 | 79% |
| 112 | 38504 | 1512 | Shah Jay Rashmin | 23 | 25 | 20 | 20 | 18 | | 20 | 126 | 70% |
| 113 | 38443 | 1513 | Shah Lakshee Snehal | 26 | 25 | 28 | 27 | 26 | 26 | | 158 | 88% |
| 114 | 38416 | 1514 | Shah Namit Sushil | 29 | 29 | 29 | 29 | 28 | 29 | | 173 | 96% |
| 115 | 38444 | 1515 | Shah Palak Rahul | 28 | 26 | 28 | 27 | 29 | 29 | | 167 | 93% |
| 116 | 38445 | 1516 | Shaikh Aliya Mohd Ali | 22 | 20 | 24 | 25 | 25 | 25 | | 141 | 78% |
| 117 | 38505 | 1517 | Shaikh Mohd Saad Fayaz | 27 | 21 | 23 | 22 | 21 | | 23 | 137 | 76% |
| 118 | 38446 | 1518 | Shaikh Zahir Ekbal | 27 | 25 | 27 | 25 | 27 | 26 | | 157 | 87% |
| 119 | 38460 | 1519 | Shaikh Zaveria | 23 | 18 | 24 | 22 | 27 | 24 | | 138 | 76% |
| 120 | 38370 | 1520 | Shinde Akshay Ashuruba | 25 | 20 | 22 | 18 | 23 | | 18 | 125 | 69% |
| 121 | 38492 | 1521 | Shruti Parekh | 27 | 26 | 28 | 28 | 27 | | 27 | 163 | 91% |
| 122 | 38503 | 1522 | Siddharth Sanjay Dalvi | 23 | 26 | 26 | 22 | 24 | | 26 | 146 | 81% |
| 123 | 38448 | 1523 | Singh Shivam Rajmani | 27 | 20 | 24 | 22 | 22 | 23 | | 137 | 76% |
| 124 | 38449 | 1524 | Sirvi Nikita Himtaram | 29 | 28 | 29 | 28 | 28 | 27 | | 169 | 94% |
| 125 | 38360 | 1525 | Soni Tasneem Yusuf | 20 | 21 | 24 | 22 | 22 | | 22 | 131 | 73% |
| 126 | 38507 | 1526 | Surana Hardik Sachin | 29 | 29 | 29 | 29 | 27 | | 29 | 172 | 95% |
| 127 | 38450 | 1527 | SUTAR SRUSHTI GANESH | 29 | 24 | 23 | 25 | 24 | 24 | | 149 | 83% |
| 128 | 38435 | 1528 | Suthar Prem Ganesh | 20 | 23 | 24 | 22 | 20 | 21 | | 130 | 72% |
| 129 | 38452 | 1529 | Swamy Jonathan Eric | 27 | 23 | 26 | 23 | 27 | 26 | | 151 | 84% |
| 130 | 38453 | 1530 | Taha Boriwala | 29 | 24 | 26 | 24 | 25 | 24 | | 152 | 84% |
| 131 | 38361 | 1531 | Taha Tatiwala | 27 | 25 | 29 | 28 | 28 | 27 | | 164 | 91% |
| 132 | 38508 | 1532 | Tahilianey Tulsi Manoj | 29 | 29 | 29 | 29 | 29 | | 28 | 173 | 96% |
| 133 | 38509 | 1533 | Tandale Amey | 27 | 27 | 28 | 27 | 24 | | 24 | 157 | 87% |
| 134 | 38510 | 1534 | Thakkar Ishita Nitin | 28 | 28 | 28 | 27 | 29 | | 29 | 169 | 94% |
| 135 | 38511 | 1535 | Thakkar Om Surendra | 27 | 28 | 29 | 27 | 25 | | 27 | 163 | 91% |
| 136 | 38454 | 1536 | Thorbole Shubham | 24 | 23 | 24 | 26 | 26 | 25 | | 148 | 82% |
| 137 | 38512 | 1537 | Trivedi Dev Kirti | 27 | 25 | 29 | 25 | 26 | | 27 | 159 | 88% |
| 138 | 38455 | 1538 | Tupare Sakshi Suresh | 26 | 25 | 28 | 25 | 27 | 25 | | 156 | 87% |
| 139 | 38457 | 1539 | Varma Kajal Benigopal | 27 | 25 | 27 | 26 | 24 | 26 | | 155 | 86% |
| 140 | 38458 | 1540 | Vichare Rutuja Ramakant | 29 | 29 | 28 | 28 | 28 | 27 | | 169 | 94% |

| Sr | ID | Roll | Name | | | | | | | | Total | % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 141 | 38513 | 1541 | Vineet Sunil Zaroo | 29 | 29 | 29 | 29 | 28 | | 29 | 173 | 96% |
| 142 | 38402 | 1542 | Vishwakarma Kajal | 28 | 29 | 29 | 29 | 27 | 28 | | 170 | 94% |
| 143 | 38459 | 1543 | Vristi Sachin Pardeshi | 27 | 26 | 29 | 29 | 27 | 29 | | 167 | 93% |
| 144 | 38362 | 1544 | Yadav Jyoti Balasaheb | 26 | 24 | 28 | 29 | 25 | 28 | | 160 | 89% |
| 145 | 38514 | 1545 | Yadav Sadhana Hemraj | 26 | 25 | 23 | 24 | 26 | | 24 | 147 | 81% |
| 146 | 38502 | 1546 | Yadav Satish Suresh | 29 | 29 | 28 | 29 | 29 | | 28 | 172 | 95% |
| 147 | 38363 | 1547 | Zainab Gunderwala | 25 | 28 | 27 | 28 | 27 | 25 | | 160 | 89% |
| 148 | 38368 | 1548 | Bansode Noah Rajnikant | 20 | 18 | 21 | 22 | 24 | | 23 | 127 | 71% |
| 149 | 38391 | 1549 | Gulve Dhawal Mahesh | 16 | 16 | 18 | 17 | 16 | 17 | | 100 | 56% |
| 150 | 38356 | 1550 | Karpe Manasi Ashok | 29 | 25 | 28 | 26 | 26 | 28 | | 162 | 90% |
| 151 | 38413 | 1551 | Momin Mohdaziz Mohdsh | 22 | 17 | 20 | 18 | 17 | | 22 | 116 | 64% |
| 152 | 38456 | 1552 | Vannam Aditi Suresh | 27 | 24 | 27 | 27 | 26 | 27 | | 158 | 88% |
| 153 | 38465 | 1553 | Boladra Narendra Santosh | 20 | 18 | 20 | 18 | 19 | | 20 | 115 | 64% |
| 154 | 38501 | 1554 | Sanghvi Riddhi Depak | 24 | 20 | 26 | 21 | 26 | | 21 | 137 | 76% |
| 155 | 38367 | 1555 | Malekar Abhishek Avinash | 20 | 18 | 20 | 18 | 17 | | 20 | 113 | 63% |
| 156 | 38403 | 1556 | Kale Omkar Dnyandeo | 25 | 24 | 27 | 22 | 26 | 24 | | 148 | 82% |
| 157 | 38500 | 1557 | Salvi Hrishikesh Rajesh | 19 | 17 | 20 | 18 | 19 | | 18 | 111 | 62% |
| 158 | 38357 | 1558 | Londhe Umesh Sundar | 18 | 17 | 16 | 17 | 18 | 17 | | 103 | 57% |
| 159 | 38358 | 1559 | Patel Sahil Ramji | 16 | 16 | 15 | 16 | 17 | 17 | | 97 | 54% |
| 160 | 38353 | 1560 | Datir Swaraj Suresh | 18 | 17 | 18 | 16 | 17 | 17 | | 103 | 57% |
| 161 | 38354 | 1561 | Jagdhane Sagar Sudhir | 17 | 18 | 17 | 16 | 15 | 17 | | 100 | 56% |
| 162 | 38390 | 1562 | Gore Sahil Vishal | 19 | 18 | 18 | 20 | 17 | 18 | | 110 | 61% |
| 163 | 38428 | 1563 | Pawar Abhishek Baburao | 20 | 21 | 20 | 22 | 20 | 21 | | 124 | 69% |
| 164 | 38485 | 1564 | Mane Avishkar Sampat | 17 | 17 | 16 | 17 | 16 | 18 | | 101 | 56% |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TOTAL STUDENTS | 164 | 164 | 164 | 164 | 164 | 105 | 59 |
| PRESENT | 164 | 164 | 164 | 164 | 164 | 105 | 59 |
| ABSENT | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FAIL | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PASS | 164 | 164 | 164 | 164 | 164 | 105 | 59 |
| PASSING PERCENTAGE | 100% | #### | #### | 100% | 100% | 100% | 100% |

P.Jadhav
**Class Teacher**

P.S.Jadhav
**Co-ordinator**

**HOD**

**Principal**

# Savitribai Phule Pune University
## Examination Session 2022
## Marks Inward System for Colleges

| College Name | CAAP013020 - VISHWAKARMA COLLEGE OF ARTS,COMMERCE & SCIENCE | | |
|---|---|---|---|
| Pattern Name | 10219 - B.B.A.( Computer Application) 2019 Credit Pattern | Batch No | 202210049144 |
| Subject Name | 101-CA - BUSINESS COMMUNICATION | Exam Type | INTERNAL OUT OF 30 |
| Teacher Name | Barse Vaishali Ashok (Mob. No.: 8087832643) - Internal Examiner | | |

| Total Students | Present Students | Absent Students | Not Applicable | Detained |
|---|---|---|---|---|
| 90 | 90 | 0 | 0 | 0 |

| Seat No | Marks/Grade | Seat No | Marks/Grade | Seat No | Marks/Grade | Seat No | Marks/Grade |
|---|---|---|---|---|---|---|---|
| 4164 | 26 | 4189 | 27 | 4214 | 24 | 4239 | 27 |
| 4165 | 27 | 4190 | 26 | 4215 | 28 | 4240 | 28 |
| 4166 | 26 | 4191 | 26 | 4216 | 27 | 4241 | 29 |
| 4167 | 26 | 4192 | 27 | 4217 | 26 | 4242 | 29 |
| 4168 | 27 | 4193 | 26 | 4218 | 26 | 4243 | 28 |
| 4169 | 26 | 4194 | 26 | 4219 | 28 | 4244 | 27 |
| 4170 | 26 | 4195 | 28 | 4220 | 30 | 4245 | 27 |
| 4171 | 26 | 4196 | 26 | 4221 | 30 | 4246 | 30 |
| 4172 | 27 | 4197 | 26 | 4222 | 30 | 4247 | 30 |
| 4173 | 27 | 4198 | 26 | 4223 | 30 | 4248 | 24 |
| 4174 | 26 | 4199 | 27 | 4224 | 29 | 4249 | 30 |
| 4175 | 27 | 4200 | 26 | 4225 | 26 | 4250 | 27 |
| 4176 | 27 | 4201 | 28 | 4226 | 27 | 4251 | 27 |
| 4177 | 27 | 4202 | 26 | 4227 | 27 | 4252 | 28 |
| 4178 | 27 | 4203 | 28 | 4228 | 28 | 4253 | 28 |
| 4179 | 24 | 4204 | 26 | 4229 | 25 | | |
| 4180 | 26 | 4205 | 25 | 4230 | 26 | | |
| 4181 | 27 | 4206 | 25 | 4231 | 27 | | |
| 4182 | 26 | 4207 | 29 | 4232 | 27 | | |
| 4183 | 26 | 4208 | 27 | 4233 | 28 | | |
| 4184 | 26 | 4209 | 26 | 4234 | 30 | | |
| 4185 | 26 | 4210 | 28 | 4235 | 29 | | |
| 4186 | 27 | 4211 | 30 | 4236 | 25 | | |
| 4187 | 26 | 4212 | 30 | 4237 | 26 | | |
| 4188 | 24 | 4213 | 27 | 4238 | 30 | | |

**Savitribai Phule Pune University**
Examination Session 2022
Marks Inward System for Colleges

*230216022
5452*

2302160225452

2/16/2023

| | | 1 of 1 |
|---|---|---|
| **College Name** | CAAP013020 - VISHWAKARMA COLLEGE OF ARTS,COMMERCE & SCIENCE | |
| **Pattern Name** | 10219 - B.B.A.( Computer Application) 2019 Credit Pattern | **Batch No** 202210049146 |
| **Subject Name** | 102-CA - PRINCIPLES OF MANAGEMENT | **Exam Type** INTERNAL OUT OF 30 |
| **Teacher Name** | Barse Vaishali Ashok (Mob. No.: 8087832643) - Internal Examiner | |

| Total Students | Present Students | Absent Students | Not Applicable | Detained |
|---|---|---|---|---|
| 90 | 90 | 0 | 0 | 0 |

| Seat No | Marks/Grade | Seat No | Marks/Grade | Seat No | Marks/Grade | Seat No | Marks/Grade |
|---|---|---|---|---|---|---|---|
| 4164 | 27 | 4189 | 27 | 4214 | 24 | 4239 | 26 |
| 4165 | 28 | 4190 | 26 | 4215 | 26 | 4240 | 26 |
| 4166 | 26 | 4191 | 26 | 4216 | 25 | 4241 | 27 |
| 4167 | 24 | 4192 | 28 | 4217 | 24 | 4242 | 24 |
| 4168 | 27 | 4193 | 25 | 4218 | 24 | 4243 | 24 |
| 4169 | 27 | 4194 | 24 | 4219 | 25 | 4244 | 24 |
| 4170 | 26 | 4195 | 29 | 4220 | 25 | 4245 | 24 |
| 4171 | 28 | 4196 | 25 | 4221 | 28 | 4246 | 29 |
| 4172 | 27 | 4197 | 26 | 4222 | 28 | 4247 | 29 |
| 4173 | 29 | 4198 | 25 | 4223 | 27 | 4248 | 24 |
| 4174 | 26 | 4199 | 26 | 4224 | 28 | 4249 | 30 |
| 4175 | 27 | 4200 | 24 | 4225 | 25 | 4250 | 27 |
| 4176 | 28 | 4201 | 26 | 4226 | 28 | 4251 | 24 |
| 4177 | 24 | 4202 | 26 | 4227 | 24 | 4252 | 27 |
| 4178 | 27 | 4203 | 27 | 4228 | 26 | 4253 | 28 |
| 4179 | 24 | 4204 | 24 | 4229 | 24 | | |
| 4180 | 24 | 4205 | 25 | 4230 | 24 | | |
| 4181 | 29 | 4206 | 24 | 4231 | 26 | | |
| 4182 | 24 | 4207 | 26 | 4232 | 24 | | |
| 4183 | 26 | 4208 | 28 | 4233 | 27 | | |
| 4184 | 24 | 4209 | 27 | 4234 | 26 | | |
| 4185 | 27 | 4210 | 28 | 4235 | 27 | | |
| 4186 | 26 | 4211 | 29 | 4236 | 24 | | |
| 4187 | 25 | 4212 | 26 | 4237 | 24 | | |
| 4188 | 24 | 4213 | 25 | 4238 | 29 | | |

Savitribai Phule Pune University
Examination Session 2022
Marks Inward System for Colleges

*230216022
6006*

2302160226006

2/16/2023

1 of 1

| College Name | CAAP013020 - VISHWAKARMA COLLEGE OF ARTS,COMMERCE & SCIENCE | | |
|---|---|---|---|
| Pattern Name | 10219 - B.B.A.( Computer Application) 2019 Credit Pattern | Batch No | 202210049147 |
| Subject Name | 103-CA - C LANGUAGE | Exam Type | INTERNAL OUT OF 30 |
| Teacher Name | Barse Vaishali Ashok (Mob. No.: 8087832643) - Internal Examiner | | |

| Total Students | Present Students | Absent Students | Not Applicable | Detained |
|---|---|---|---|---|
| 92 | 92 | 0 | 0 | 0 |

| Seat No | Marks/Grade | Seat No | Marks/Grade | Seat No | Marks/Grade | Seat No | Marks/Grade |
|---|---|---|---|---|---|---|---|
| 4164 | 27 | 4189 | 27 | 4214 | 24 | 4239 | 26 |
| 4165 | 29 | 4190 | 26 | 4215 | 29 | 4240 | 25 |
| 4166 | 27 | 4191 | 26 | 4216 | 28 | 4241 | 28 |
| 4167 | 27 | 4192 | 24 | 4217 | 24 | 4242 | 27 |
| 4168 | 25 | 4193 | 27 | 4218 | 25 | 4243 | 24 |
| 4169 | 25 | 4194 | 24 | 4219 | 26 | 4244 | 24 |
| 4170 | 28 | 4195 | 30 | 4220 | 28 | 4245 | 26 |
| 4171 | 24 | 4196 | 28 | 4221 | 30 | 4246 | 29 |
| 4172 | 24 | 4197 | 26 | 4222 | 30 | 4247 | 29 |
| 4173 | 28 | 4198 | 26 | 4223 | 24 | 4248 | 24 |
| 4174 | 24 | 4199 | 25 | 4224 | 30 | 4249 | 25 |
| 4175 | 24 | 4200 | 29 | 4225 | 25 | 4250 | 29 |
| 4176 | 26 | 4201 | 26 | 4226 | 27 | 4251 | 24 |
| 4177 | 24 | 4202 | 26 | 4227 | 25 | 4252 | 24 |
| 4178 | 28 | 4203 | 26 | 4228 | 28 | 4253 | 24 |
| 4179 | 24 | 4204 | 30 | 4229 | 24 | 4262 | 26 |
| 4180 | 24 | 4205 | 25 | 4230 | 26 | 4269 | 27 |
| 4181 | 27 | 4206 | 24 | 4231 | 27 | | |
| 4182 | 26 | 4207 | 28 | 4232 | 24 | | |
| 4183 | 24 | 4208 | 29 | 4233 | 25 | | |
| 4184 | 24 | 4209 | 30 | 4234 | 27 | | |
| 4185 | 24 | 4210 | 29 | 4235 | 27 | | |
| 4186 | 27 | 4211 | 30 | 4236 | 24 | | |
| 4187 | 25 | 4212 | 30 | 4237 | 28 | | |
| 4188 | 24 | 4213 | 28 | 4238 | 28 | | |

# Savitribai Phule Pune University
## Examination Session 2022
## Marks Inward System for Colleges

2/16/2023                                                                        1 of 1

| College Name | CAAP013020 - VISHWAKARMA COLLEGE OF ARTS,COMMERCE & SCIENCE | | |
|---|---|---|---|
| Pattern Name | 10219 - B.B.A.( Computer Application) 2019 Credit Pattern | Batch No | 202210049148 |
| Subject Name | 104-CA - DATABASE MANAGEMENT SYSTEM | Exam Type | INTERNAL OUT OF 30 |
| Teacher Name | Barse Vaishali Ashok (Mob. No.: 8087832643) - Internal Examiner | | |

| Total Students | Present Students | Absent Students | Not Applicable | Detained |
|---|---|---|---|---|
| 93 | 93 | 0 | 0 | 0 |

| Seat No | Marks/Grade | Seat No | Marks/Grade | Seat No | Marks/Grade | Seat No | Marks/Grade |
|---|---|---|---|---|---|---|---|
| 4164 | 26 | 4189 | 30 | 4214 | 24 | 4239 | 24 |
| 4165 | 27 | 4190 | 29 | 4215 | 27 | 4240 | 27 |
| 4166 | 29 | 4191 | 29 | 4216 | 29 | 4241 | 29 |
| 4167 | 26 | 4192 | 24 | 4217 | 25 | 4242 | 29 |
| 4168 | 24 | 4193 | 30 | 4218 | 25 | 4243 | 26 |
| 4169 | 24 | 4194 | 26 | 4219 | 27 | 4244 | 24 |
| 4170 | 26 | 4195 | 30 | 4220 | 28 | 4245 | 28 |
| 4171 | 30 | 4196 | 29 | 4221 | 30 | 4246 | 29 |
| 4172 | 25 | 4197 | 29 | 4222 | 30 | 4247 | 29 |
| 4173 | 29 | 4198 | 28 | 4223 | 26 | 4248 | 30 |
| 4174 | 29 | 4199 | 28 | 4224 | 30 | 4249 | 28 |
| 4175 | 28 | 4200 | 29 | 4225 | 26 | 4250 | 26 |
| 4176 | 27 | 4201 | 24 | 4226 | 29 | 4251 | 26 |
| 4177 | 28 | 4202 | 27 | 4227 | 26 | 4252 | 27 |
| 4178 | 26 | 4203 | 27 | 4228 | 28 | 4253 | 24 |
| 4179 | 24 | 4204 | 28 | 4229 | 24 | 4262 | 26 |
| 4180 | 24 | 4205 | 29 | 4230 | 24 | 4270 | 26 |
| 4181 | 24 | 4206 | 27 | 4231 | 27 | 4272 | 26 |
| 4182 | 25 | 4207 | 29 | 4232 | 27 | | |
| 4183 | 25 | 4208 | 30 | 4233 | 26 | | |
| 4184 | 25 | 4209 | 27 | 4234 | 29 | | |
| 4185 | 24 | 4210 | 29 | 4235 | 26 | | |
| 4186 | 24 | 4211 | 29 | 4236 | 26 | | |
| 4187 | 24 | 4212 | 30 | 4237 | 26 | | |
| 4188 | 24 | 4213 | 28 | 4238 | 28 | | |

**Savitribai Phule Pune University**
Examination Session 2022
Marks Inward System for Colleges

\*230216022
6397\*

2302160226397

2/16/2023

1 of 1

| College Name | CAAP013020 - VISHWAKARMA COLLEGE OF ARTS,COMMERCE & SCIENCE | | |
|---|---|---|---|
| Pattern Name | 10219 - B.B.A.( Computer Application) 2019 Credit Pattern | Batch No | 202210049149 |
| Subject Name | 105-CA - STATISTICS | Exam Type | INTERNAL OUT OF 30 |
| Teacher Name | Barse Vaishali Ashok (Mob. No.: 8087832643) - Internal Examiner | | |

| Total Students | Present Students | Absent Students | Not Applicable | Detained |
|---|---|---|---|---|
| 92 | 92 | 0 | 0 | 0 |

| Seat No | Marks/Grade | Seat No | Marks/Grade | Seat No | Marks/Grade | Seat No | Marks/Grade |
|---|---|---|---|---|---|---|---|
| 4164 | 25 | 4189 | 29 | 4214 | 24 | 4239 | 24 |
| 4165 | 29 | 4190 | 24 | 4215 | 26 | 4240 | 29 |
| 4166 | 25 | 4191 | 27 | 4216 | 29 | 4241 | 30 |
| 4167 | 26 | 4192 | 24 | 4217 | 26 | 4242 | 29 |
| 4168 | 26 | 4193 | 24 | 4218 | 28 | 4243 | 25 |
| 4169 | 25 | 4194 | 24 | 4219 | 29 | 4244 | 24 |
| 4170 | 27 | 4195 | 30 | 4220 | 30 | 4245 | 30 |
| 4171 | 25 | 4196 | 29 | 4221 | 30 | 4246 | 29 |
| 4172 | 28 | 4197 | 27 | 4222 | 29 | 4247 | 29 |
| 4173 | 30 | 4198 | 26 | 4223 | 26 | 4248 | 26 |
| 4174 | 27 | 4199 | 26 | 4224 | 30 | 4249 | 27 |
| 4175 | 27 | 4200 | 26 | 4225 | 24 | 4250 | 24 |
| 4176 | 25 | 4201 | 24 | 4226 | 29 | 4251 | 26 |
| 4177 | 24 | 4202 | 27 | 4227 | 26 | 4252 | 24 |
| 4178 | 29 | 4203 | 25 | 4228 | 27 | 4253 | 25 |
| 4179 | 24 | 4204 | 26 | 4229 | 24 | 4262 | 25 |
| 4180 | 24 | 4205 | 24 | 4230 | 24 | 4269 | 25 |
| 4181 | 26 | 4206 | 27 | 4231 | 26 | | |
| 4182 | 24 | 4207 | 27 | 4232 | 24 | | |
| 4183 | 25 | 4208 | 24 | 4233 | 24 | | |
| 4184 | 24 | 4209 | 29 | 4234 | 26 | | |
| 4185 | 24 | 4210 | 30 | 4235 | 28 | | |
| 4186 | 24 | 4211 | 30 | 4236 | 24 | | |
| 4187 | 24 | 4212 | 30 | 4237 | 26 | | |
| 4188 | 24 | 4213 | 27 | 4238 | 29 | | |

# Savitribai Phule Pune University
Examination Session 2022
Marks Inward System for Colleges

2/16/2023

1 of 1

| College Name | CAAP013020 - VISHWAKARMA COLLEGE OF ARTS,COMMERCE & SCIENCE | | |
|---|---|---|---|
| Pattern Name | 10219 - B.B.A.( Computer Application) 2019 Credit Pattern | Batch No | 202210049151 |
| Subject Name | 107-CA(A) - PPA (ADD-ON) | Exam Type | INTERNAL OUT OF 50 |
| Teacher Name | Barse Vaishali Ashok (Mob. No.: 8087832643) - Internal Examiner | | |

| Total Students | Present Students | Absent Students | Not Applicable | Detained |
|---|---|---|---|---|
| 90 | 90 | 0 | 0 | 0 |

| Seat No | Marks/Grade | Seat No | Marks/Grade | Seat No | Marks/Grade | Seat No | Marks/Grade |
|---|---|---|---|---|---|---|---|
| 4164 | 46 | 4189 | 47 | 4214 | 40 | 4239 | 42 |
| 4165 | 46 | 4190 | 45 | 4215 | 43 | 4240 | 46 |
| 4166 | 44 | 4191 | 43 | 4216 | 46 | 4241 | 47 |
| 4167 | 44 | 4192 | 44 | 4217 | 43 | 4242 | 46 |
| 4168 | 43 | 4193 | 46 | 4218 | 44 | 4243 | 46 |
| 4169 | 38 | 4194 | 37 | 4219 | 46 | 4244 | 35 |
| 4170 | 39 | 4195 | 48 | 4220 | 47 | 4245 | 45 |
| 4171 | 38 | 4196 | 46 | 4221 | 50 | 4246 | 47 |
| 4172 | 46 | 4197 | 45 | 4222 | 49 | 4247 | 48 |
| 4173 | 48 | 4198 | 42 | 4223 | 40 | 4248 | 40 |
| 4174 | 44 | 4199 | 38 | 4224 | 46 | 4249 | 41 |
| 4175 | 46 | 4200 | 45 | 4225 | 45 | 4250 | 44 |
| 4176 | 46 | 4201 | 39 | 4226 | 47 | 4251 | 36 |
| 4177 | 42 | 4202 | 41 | 4227 | 41 | 4252 | 44 |
| 4178 | 44 | 4203 | 41 | 4228 | 42 | 4253 | 42 |
| 4179 | 36 | 4204 | 43 | 4229 | 42 | | |
| 4180 | 36 | 4205 | 40 | 4230 | 39 | | |
| 4181 | 43 | 4206 | 43 | 4231 | 48 | | |
| 4182 | 39 | 4207 | 42 | 4232 | 42 | | |
| 4183 | 43 | 4208 | 47 | 4233 | 43 | | |
| 4184 | 36 | 4209 | 47 | 4234 | 38 | | |
| 4185 | 36 | 4210 | 47 | 4235 | 45 | | |
| 4186 | 41 | 4211 | 50 | 4236 | 36 | | |
| 4187 | 39 | 4212 | 50 | 4237 | 44 | | |
| 4188 | 36 | 4213 | 43 | 4238 | 48 | | |

All students are hereby inform that the ASSIGNMENT -I submission schedule is as follows:

| Sr. No. | Subject | Assignment Questions |
|---|---|---|
| 1 | Web Technology Computer | Q.1 Define HTML? Write the basic tags of HTML. Also write the working of HTML controls with example. <br> Q.2 Explain different types of protocols (HTTP, FTP, SMTP,TELNET). <br> Q.3 Write a program in JavaScript that contains array having 6 elements. a)Find the length of that array b)add 2 elements in it again find the length of array c) remove 1 element from array d) display the first element e) display last element f) display whole array <br> Q.4 Explain internal and external style sheets in detail <br> Q.5 Explain the concept of function in JavaScript with example |
| 2 | Advanced Databases | 1. Explain Query Processing. <br> 2. Explain measure of query cost. <br> 3. Explain projection. <br> 4. Explain materialization. <br> 5. Transformation Rules for relational expression. |
| 3 | Design and Analysis of Algorithm | Q.1 Huffman code is fixed length code. Justify. <br> Q.2 Obtain a set of optimal Huffman codes for the messages (m1,m2,m3,m4,m5,m6,m7) with relative frequencies (f1,f2,f3,f4,f5,f6,f7) = (1,1,2,3,5,8,13). Draw the decode tree for this set of codes. <br> Q.3 Find an optimal binary merge pattern for 10 files whose lengths are 15,2,12,35,28,11,23,5,20,3. <br> Q.4 Apply Floyd Warshall algorithm to find lengths of shortest paths from vertex u to vertex V $\forall$ u,v $\in$ V(G) , where adjacency matrix of G is m[1,1]=0 ,m[1,2]=4,m[1,3]=11 m[2,1]=6 m[2,2]=0 m[2,3]=2 m[3,1]=3 m[3,2]=$\infty$ m[3,3]=0 <br> Q.5 Describe matrix chain multiplication problem. What is the best way to multiply a chain of matrices with dimensions that are 20X5, 5X10, 10X15, !5X3 and 3X7 using dynamic programming method. |
| 4 | Object Oriented Programming with C++ | 1.What is in line function <br> 2.What are oops concept? <br> 3.What is operator overloading? <br> 4.what is virtual function? <br> 5.various file handling commands |

Note :

1. All the students should write the assignments in Journals and upload the pdf. The link will be provided on your official group.

2. Mention Roll No and Name.Rename file as RollNo followed by FirstNameLastName (Ex. 3001AnujPatil)

3. It is considered for **INTERNAL ASSESMENT.**

4. Students should be responsible for non evaluation.

5.Submission date for all subjects- till **15 th January 2022.**

Co-ordinator

HOD

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts,
Comm**Principal**cience
Kondhwa(Bk.), Pune-411 048.

1

VCACS

Teacher's Signature

Subject : Design & Analysis of Algorithm

Title : Assignment-1

Name : Radhika Prashant Pathak

Roll No.: 5038 　　　Batch :

Date : 　　　　　　　　Date : 15/01/2022

( Performed ) 　　　　( Submission )

1. Huffman code is fixed length code. Justify.

→ Every information in computer is encoded as strings of 0's & 1's.

Huffman coding is a lossless data compression algorithm.

Fixed length & variable length are two types of encoding.

Fixed length - Every character is assigned a binary code using same number of bits. Thus a string like "aabacdad" can require 64 bits i.e. (8 bytes) for storage or transmission, assuming that each character uses 8 bits.

2. Obtain a set of optimal huffman codes for messages (m1, m2, m3, m4, m5, m6, m7) with relative frequencies (f1, f2, f3, f4, f5, f6, f7) = (1, 1, 2, 3, 5, 8, 13). Draw the decode tree for this set of code.
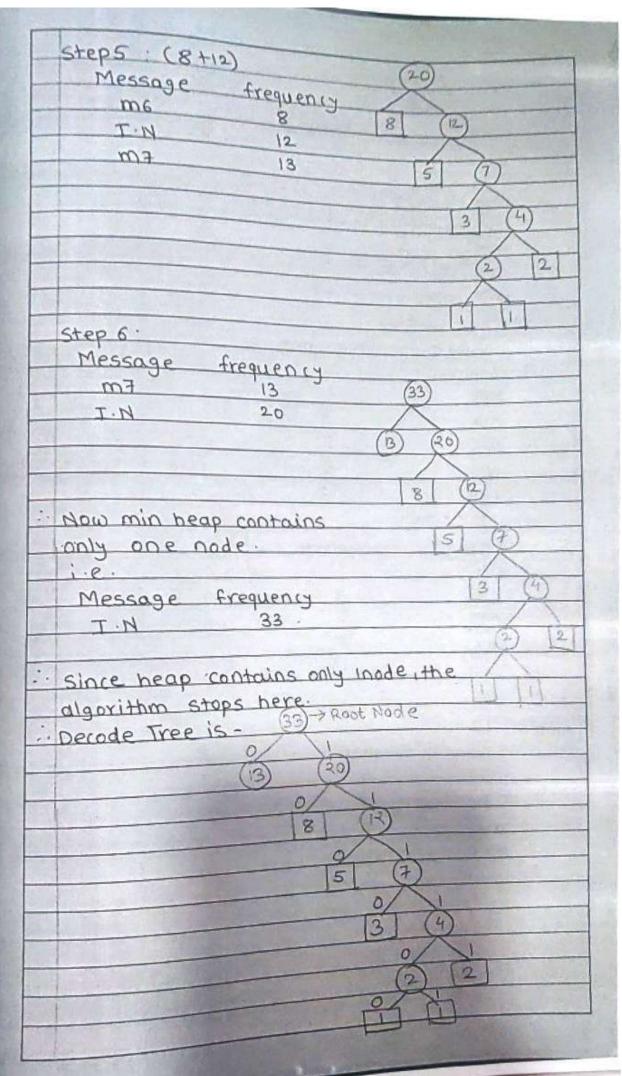
→ Build a min heap that contains represents root of a tree with sigle node.
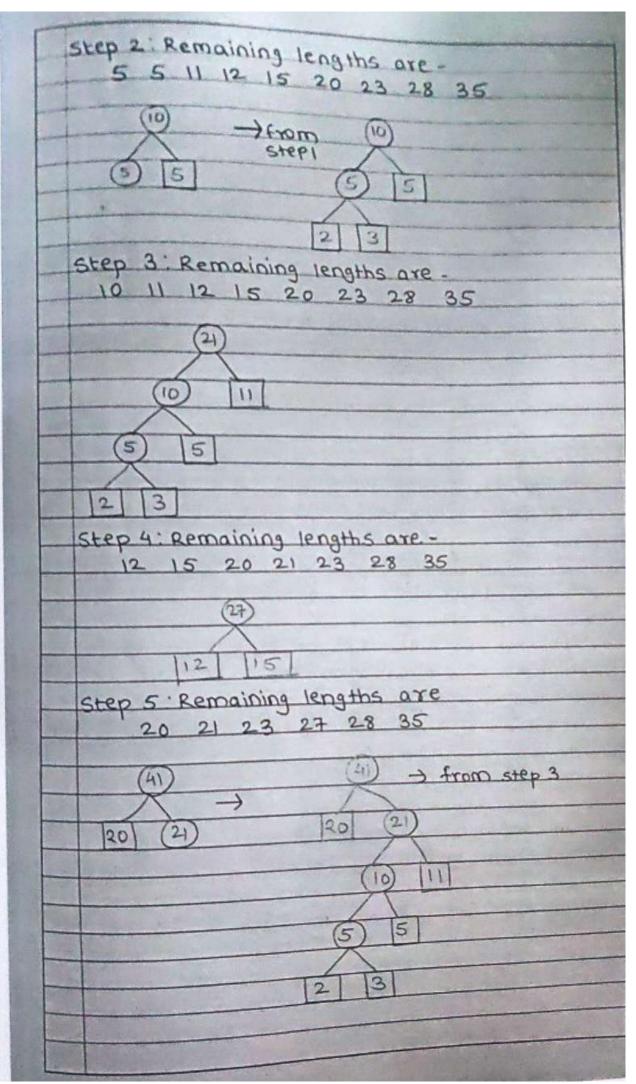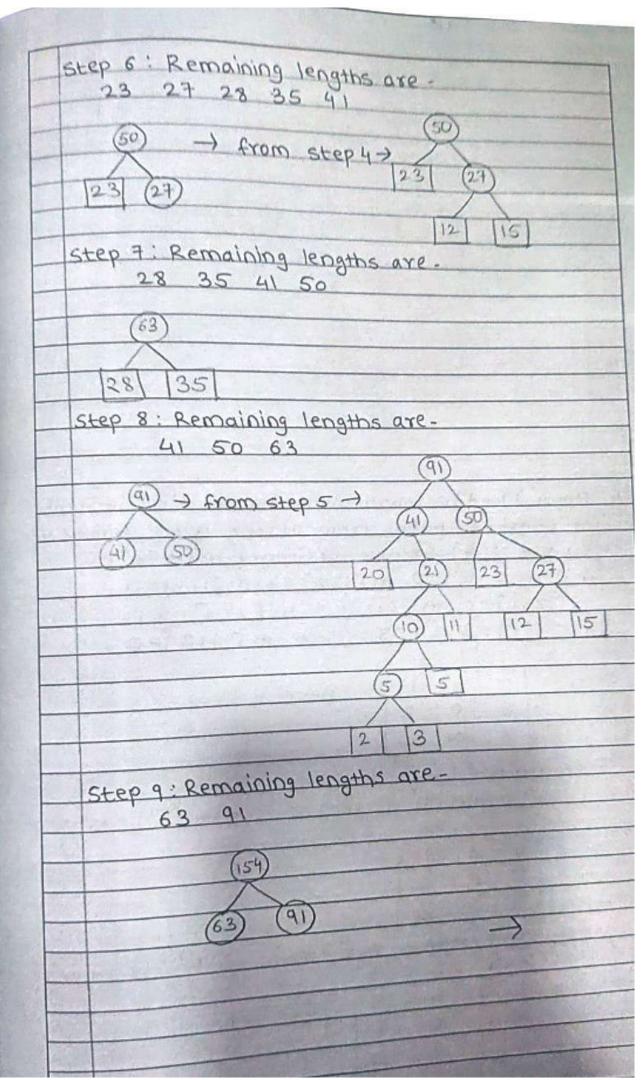
Here IN represents a Internal Node. 　　　　→

2
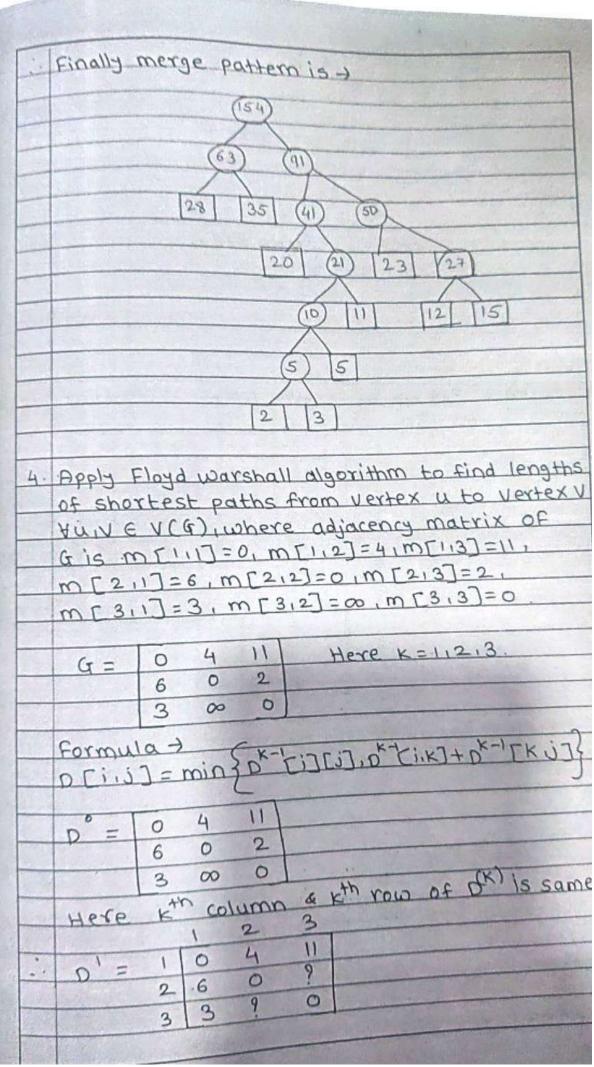
Step 1: Extract 2 minimum frequency node from min heap. (1+1)

| Message | frequency |
|---------|-----------|
| m1 | 1 |
| m2 | 1 |
| m3 | 2 |
| m4 | 3 |
| m5 | 5 |
| m6 | 8 |
| m7 | 13 |

Step 2: (2+2)

| Message | frequency |
|---------|-----------|
| Internal node | 2 |
| m3 | 2 |
| m4 | 3 |
| m5 | 5 |
| m6 | 8 |
| m7 | 13 |

Step 3: (3+4)

| Message | frequency |
|---------|-----------|
| m4 | 3 |
| I.N | 4 |
| m5 | 5 |
| m6 | 8 |
| m7 | 13 |

Step 4: (5+7)

| Message | frequency |
|---------|-----------|
| m5 | 5 |
| I.N | 7 |
| m6 | 8 |
| m7 | 13 |

## Step 5 : (8 + 12)

| Message | frequency |
|---------|-----------|
| m6 | 8 |
| I.N | 12 |
| m7 | 13 |

## Step 6.

| Message | frequency |
|---------|-----------|
| m7 | 13 |
| I.N | 20 |

∴ Now min heap contains only one node.

i.e.

| Message | frequency |
|---------|-----------|
| I.N | 33. |

∴ Since heap contains only 1node, the algorithm stops here.

∴ Decode Tree is -

33 → Root Node

Encode –

| Message | frequency | Huffman code |
|---------|-----------|--------------|
| m1 | 1 | |
| m2 | 1 | 111100 → 6 |
| m3 | 2 | 111101 → 6 |
| m4 | 3 | 11111 → 5 |
| m5 | 5 | 1110 → 4 |
| m6 | 8 | 110 → 3 |
| m7 | 13 | 10 → 2 |
| | | 0 → 1 |
| | | ――― |
| | | 27 |

∴ Total = no. of frequency * no. of bits.

bits = $(1 \times 6) + (1 \times 6) + (2 \times 5)(3 \times 4) + (5 \times 3) + (8 \times 2)$
$\qquad + (13) \times 1)$
$\qquad = 6 + 6 + 10 \times 12 + 15 + 16 \times 13$
$\qquad = 78.$

∴ No. of bits = (no. of characters $\times$ 8 bits) + no. of
Required      bits for each character + total bits.
$\qquad = (7 \times 8) + 27 + 78$
$\qquad = 56 + 27 + 78$
$\qquad = 161$ bits are Required.

3. Find an optimal binary merge pattern for 10 files whose length are
15, 2, 12, 35, 28, 11, 23, 5, 20, 3.

→ Arrange the lengths in an increament order

| 2 | 3 | 5 | 11 | 12 | 15 | 20 | 23 | 28 | 35 |
|---|---|---|----|----|----|----|----|----|----|
| f1 | f2 | f3 | f4 | f5 | f6 | f7 | f8 | f9 | f10 |

Now merge the length of two files with minimum length.

Step 1 : 2  3  5  11  12  15  20  23  28  35

Step 2: Remaining lengths are -
5  5  11  12  15  20  23  28  35


→ from step1

Step 3: Remaining lengths are -
10  11  12  15  20  23  28  35



Step 4: Remaining lengths are -
12  15  20  21  23  28  35



Step 5: Remaining lengths are
20  21  23  27  28  35


→ from step 3

6

step 6 : Remaining lengths are -
23  27  28  35  41



step 7 : Remaining lengths are -
28  35  41  50



step 8 : Remaining lengths are -
41  50  63



Step 9 : Remaining lengths are -
63  91

∴ Finally merge pattern is →



4. Apply Floyd warshall algorithm to find lengths of shortest paths from vertex u to vertex v ∀u,v ∈ V(G), where adjacency matrix of G is $m[1,1]=0$, $m[1,2]=4$, $m[1,3]=11$, $m[2,1]=6$, $m[2,2]=0$, $m[2,3]=2$, $m[3,1]=3$, $m[3,2]=\infty$, $m[3,3]=0$.

$$G = \begin{bmatrix} 0 & 4 & 11 \\ 6 & 0 & 2 \\ 3 & \infty & 0 \end{bmatrix}$$

Here $k = 1, 2, 3$.

Formula →
$$D[i,j] = \min\{D^{k-1}[i][j], D^{k-1}[i,k] + D^{k-1}[k,j]\}$$

$$D^0 = \begin{bmatrix} 0 & 4 & 11 \\ 6 & 0 & 2 \\ 3 & \infty & 0 \end{bmatrix}$$

Here $k^{th}$ column & $k^{th}$ row of $D^{(k)}$ is same

| $D^1 =$ | | 1 | 2 | 3 |
|---|---|---|---|---|
| | 1 | 0 | 4 | 11 |
| | 2 | 6 | 0 | ? |
| | 3 | 3 | ? | 0 |

8

$$D'[2,3] = \min\{D^0[2,3], D^0[2,1] + D^0[3,3]\}$$
$$K = 1$$
$$i = 2$$
$$J = 3 \qquad = \min(2, 6+11)$$
$$= \min(2, 17)$$
$$= 2$$

$$\therefore D'[2,3] = 2$$

$$D'[3,2] = \min\{D^0[3,2], D^0[3,2] + D^0[2,2]\}$$
$$\quad i \quad J$$
$$K = 2 \qquad = \min(\infty, 3+4)$$
$$= 7$$

$$\therefore D' \begin{array}{|ccc|} \hline 0 & 4 & 11 \\ 6 & 0 & \underline{2} \\ 3 & 7 & 0 \\ \hline \end{array}$$

Step 2 -

$$D^2 \quad \begin{array}{c|ccc} & 1 & 2 & 3 \\ \hline 1 & 0 & 4 & ? \\ 2 & 6 & 0 & 2 \\ 3 & ? & 7 & 0 \end{array}$$

$$\therefore D^2[1,3] = \min\{D'[1,3], D'[1,2] + D'[2,3]\}$$
$$K = 2$$
$$= \min(11, 4+2)$$
$$= 6$$

$$D^2[3,1] = \min\{D'[3,1], D'[3,2] + D'[2,1]\}$$
$$K = 2$$
$$= \min(3, 7+6)$$
$$= 3$$

$$\therefore D^2 = \begin{array}{|ccc|} \hline 0 & 4 & \underline{6} \\ 6 & 0 & 2 \\ \underline{3} & 7 & 0 \\ \hline \end{array}$$

# VCAC Vishwakarma College of Arts,Commerce and Science, Pune.

(Affiliated to Savitribai Phule Pune University)

NAAC Accredited with 'B+' Grade

Date : 4/6/2022

## Notice

This to inform to all students of FYMSc(CA) that they have to submit Seminar Report for all subjects. Topics are given below. Select the one topic for each subject.

Submit all reports on or before Wednesday, 8/6/2022.

| Sr. No | Subject | Topic |
|--------|---------|-------|
| 1 | Data Mining and ware Housing | Data analytics |
| | | Mining techniques |
| 2 | Operating System | Linux Operating System |
| | | Shell |
| 3 | Computer Networks | Cryptography |
| | | Bit coin |
| 4 | Java Programming | Spring Framework |
| | | Hibernate |

Note:

- Maximum 500 words.
- Upload pdf files only.
- Report name should be student name_FYMSc(CA).pdf
  e.g. shrastishiv_FYMSc(CA).pdf

Coordinator

HOD
(Science)

Principal R. Patil
PRINCIPAL
Vishwakarma College of Arts,
Commerce & Science
Kondhwa(Bk.), Pune-411 048.

10

# DAA SEMINAR REPORT

VISHWAKARMA INSTITUTES VCACS

- Name:-Rutuja Hanumant Khopade.
- Class:-FYMSc(CA).
- Roll No:-5023.
- Subject:-Data Analysis and Algorithm.
- Topic:-Analysis of Algorithm.
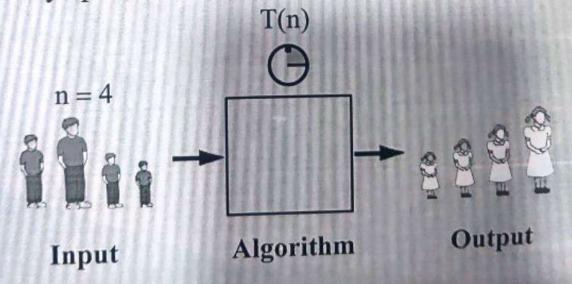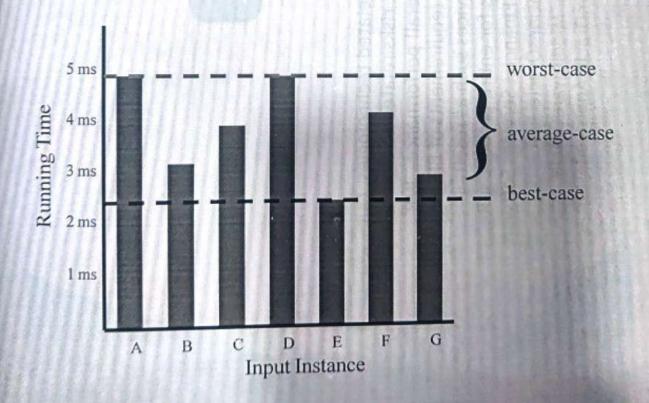
# ANALYSIS OF ALGORITHMS

- Quick Mathematical Review

- Running Time

- Pseudo-Code

- Analysis of Algorithms

- Asymptotic Notation

- Asymptotic Analysis



Input     Algorithm     Output

# AVERAGE CASE VS. WORST CASE RUNNING TIME OF AN ALGORITHM
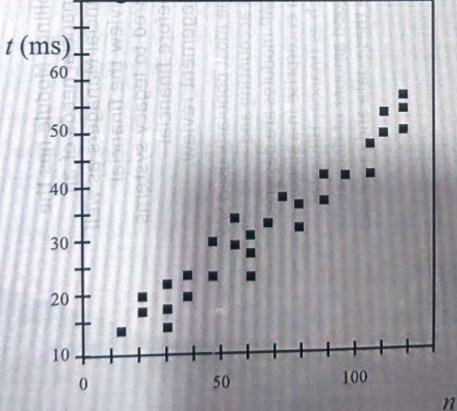
- An algorithm may run faster on certain data sets than on others,

- Finding the average case can be very difficult, so typically algorithms are measured by the worst-case time complexity.

- Also, in certain application domains (e.g., air traffic control, surgery) knowing the worst-case time complexity is of crucial importance.

# MEASURING THE RUNNING TIME

- How should we measure the running time of an algorithm?

- Experimental Study
  - Write a program that implements the algorithm
  - Run the program with data sets of varying size and composition.
  - Use a method like System.currentTimeMillis() to get an accurate measure of the actual running time.
  - The resulting data set should look something like:

# PSEUDO-CODE

- Pseudo-code is a description of an algorithm that is more structured than usual prose but less formal than a programming language.

- Example: finding the maximum element of an array.

**Algorithm** arrayMax(A, $n$):
    *Input*: An array A storing $n$ integers.
    *Output*: The maximum element in A.
  *currentMax* ← A[0]
  **for** $i$ ← 1 **to** $n-1$ **do**
    **if** *currentMax* < A[$i$] **then**
      *currentMax* ← A[$i$]
  **return** *currentMax*

- Pseudo-code is our preferred notation for describing algorithms.

- However, pseudo-code hides program design issues.

8

Bansilal Ramnath Agarwal Charitable Trust's

# Vishwakarma College of Arts, Commerce and Science, Pune.

### (Affiliated to Savitribai Phule Pune University)

NAAC Accredited with 'B+' Grade

**Department of Computer Science**

## Class Test (Time-Table May-2022)

## FY BSc (Computer Science) Sem II

| Sr No | Date | Time | Subject | Hall No | Roll No | Super visor |
|---|---|---|---|---|---|---|
| 1 | 23/05/2022 Monday | 10:30am to 11:30am | CS -121 Advanced C Programming | 301 | 6001-6042 | KW |
| 2 | | | | 302 | 6043-6085 | NS |
| 3 | | | | 303 | 6086-6127 | RP |
| 4 | 23/05/2022 Monday | 12:00noon to 1:00pm | CS-122 Relatinal Database and Management System | 301 | 6001-6042 | RP |
| 5 | | | | 302 | 6043-6085 | PP |
| 6 | | | | 303 | 6086-6127 | NS |
| 7 | 24/05/2022 Tuesday | 10:30am to 11:30am | ELC-121 Instrumention System | 301 | 6001-6042 | NS |
| 8 | | | | 302 | 6043-6085 | KW |
| 9 | | | | 303 | 6086-6127 | RP |
| 10 | 24/05/2022 Tuesday | 12:00noon to 1:00pm | ELC-122 Basics of Computer Organization | 301 | 6001-6042 | KW |
| 11 | | | | 302 | 6043-6085 | RP |
| 12 | | | | 303 | 6086-6127 | NS |
| 13 | 25/05/2022 Wednesday | 10:30am to 11:30am | CSST 121 Methods of Applied Statistics | 301 | 6001-6042 | SK |
| 14 | | | | 302 | 6043-6085 | YH |
| 15 | | | | 303 | 6086-6127 | Shiv |
| 16 | 25/05/2022 Wednesday | 12:00noon to 1:00pm | CSST 122 Continuous Probability Distributions & Testing of Hypothesis | 301 | 6001-6042 | YH |
| 17 | | | | 302 | 6043-6085 | SK |
| 18 | | | | 303 | 6086-6127 | KW |
| 19 | 26/05/2022 Thrusday | 10:30am to 11:30am | MTC-121 Linear Algebra | 301 | 6001-6042 | PC |
| 20 | | | | 302 | 6043-6085 | PL |
| 21 | | | | 303 | 6086-6127 | PP |
| 22 | 26/05/2022 Thrusday | 12:00noon to 1:00pm | MTC-122 Graph Theory | 301 | 6001-6042 | PL |
| 23 | | | | 302 | 6043-6085 | PC |
| 24 | | | | 303 | 6086-6127 | NS |

Coordinator

HOD

Dr. Principal

PRINCIPAL
Vishwakarma College of Arts,
Commerce & Science
Kondhwa(Bk.), Pune-411 048.

1

**BRACT's**

# Vishwakarma College of Arts, Commerce & Science

FYBSc (CS) - 2021-22    Sem - II

Theory - Classtest Marksheet    Out of 15

| Roll.No. | Exam Seat No. | Student Name | CS-I | CS-II | E-I | E-II | S-I | S-II | M-I | M-II |
|---|---|---|---|---|---|---|---|---|---|---|
| 6127 | 5052 | GHOMAN PRANAV NITIN | 14 | 14 | 12 | 14 | 12 | 12 | 12 | 13 |
| 6021 | 5053 | HANDE OM SANJAY | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6025 | 5054 | JADHVAR ASHISH ANAND | 12 | 12 | 12 | 13 | 12 | 12 | 12 | 12 |
| 6026 | 5055 | JAGTAP ADITI VISHAL | 12 | 13 | 12 | 12 | 12 | 12 | 12 | 15 |
| 6027 | 5056 | JAISWAR JYOTI SHYAMBAHADUR | 13 | 13 | 12 | 15 | 12 | 13 | 12 | 15 |
| 6049 | 5057 | NAGILLA SWARAN PRABHAKAR | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6059 | 5058 | PORWAL AVI BHOMRAJ | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6065 | 5059 | RAWLELLU AYUSH JAGDISH | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6075 | 5060 | SHAIKH FARDEEN IMTIYAZ | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6106 | 5061 | SHAIKH SABIRA SADIQ KOUSAR | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6077 | 5062 | SHARAYU NAIK | 14 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6078 | 5063 | SHARMA MADHU BRIJESH | 14 | 14 | 14 | 14 | 12 | 14 | 14 | 15 |
| 6080 | 5064 | SHINDE PREM VIJAY | 12 | 14 | 14 | 12 | 12 | 12 | 12 | 15 |
| 6081 | 5065 | SIDDHIKI AMIR JAHIRULAHAK | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 |
| 6094 | 5066 | VELAPURE MANASI ANAND | 14 | 12 | 14 | 14 | 12 | 12 | 12 | 14 |
| 6117 | 5067 | ABDULMATIN MAHAPULE SIRAJ | 14 | 14 | 12 | 12 | 12 | 12 | 12 | 15 |
| 6038 | 5068 | KUMBHARKAR ABHISHEK SUDHA | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6114 | 5069 | ADHAV KAUSHAL KIRAN | 12 | 14 | 12 | 12 | 12 | 12 | 12 | 14 |
| 6046 | 5070 | ADVAIT VIJAY MORE | 12 | 13 | 14 | 13 | 12 | 12 | 12 | 14 |
| 6096 | 5071 | ANKITA RAJESH YERANDE | 14 | 14 | 14 | 15 | 12 | 12 | 13 | 15 |
| 6001 | 5072 | ANSARI FAEKA IMTIYAZ | 14 | 12 | 12 | 14 | 12 | 14 | 14 | 14 |
| 6002 | 5073 | ANSARI SANOBAR GUDDU | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 6006 | 5074 | BHOSALE ATHARVA RAJENDRA | 12 | 14 | 12 | 12 | 12 | 12 | 12 | 14 |
| 6003 | 5075 | BAVDHANKAR GAURAV PRAKASH | 12 | 14 | 12 | 14 | 12 | 12 | 12 | 14 |
| 6004 | 5076 | BHAME ANURAG ROHIDAS | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6116 | 5077 | BHANDARI VANSH SUMEET | 14 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6005 | 5078 | BHASME YASHRAJ JAGJEET | 12 | 12 | 14 | 14 | 12 | 12 | 12 | 14 |
| 6007 | 5079 | BHOSALE GIRISH SHAHSIKANT | 12 | 14 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6008 | 5080 | CHAUDHARI VAISHNAVI PRAKASH | 15 | 12 | 14 | 14 | 13 | 14 | 13 | 15 |
| 6009 | 5081 | CHAVAN ABHAY SHIVAJI | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 |
| 6010 | 5082 | CHOUBEY ABINISH SHYAM NARAY | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6011 | 5083 | CHOUDHARY DINESH JETARAM | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6012 | 5084 | CHOUDHARY ROUNAK VIMAL PRA | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6103 | 5085 | DEEKSHANT VISHAL MORE | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6014 | 5086 | DESHMUKH DIVYA MILIND | 13 | 12 | 13 | 12 | 12 | 12 | 15 | 15 |
| 6015 | 5087 | DESHMUKH SIDDHESH YOGESH | 12 | 12 | 13 | 12 | 12 | 12 | 13 | 13 |
| 6013 | 5088 | DAIS SHERWIN STANLEY | 13 | 12 | 14 | 12 | 12 | 12 | 15 | 14 |
| 6063 | 5089 | DISHA NANDKISHOR RAUT | 13 | 12 | 15 | 13 | 12 | 12 | 13 | 15 |
| 6029 | 5090 | KADAM DNYANESHWAR LAXMAN | 12 | 13 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6016 | 5091 | DURGUNDE PRASHANT GOVIND | 15 | 12 | 15 | 14 | 13 | 14 | 13 | 15 |
| 6017 | 5092 | DURKAR TUSHAR JALINDAR | 14 | 13 | 13 | 12 | 12 | 12 | 12 | 13 |
| 6018 | 5093 | FATEPURWALA MURTAZA MUSTA | 13 | 13 | 12 | 13 | 12 | 12 | 12 | 13 |
| 6019 | 5094 | GADE PRASAD SANJAY | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6020 | 5095 | GAWLI DHANANJAY SAGAR | 13 | 12 | 14 | 14 | 12 | 12 | 12 | 13 |
| 6022 | 5096 | HUBLIKAR ADITYA MOHAN | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 6119 | 5097 | HUSAIN MURTAZA NALWALA | 12 | 12 | 12 | 12 | 12 | 13 | 12 | 13 |
| 6023 | 5098 | INAMDAR SANIYA SHABBIR | 13 | 12 | 12 | 13 | 12 | 12 | 12 | 13 |
| 6024 | 5099 | JADHAV ONKAR RAMESH | 13 | 12 | 12 | 13 | 12 | 12 | 12 | 14 |
| 6101 | 5100 | JANGID BIJESH DURGAPRASAD | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6028 | 5101 | JOSHI OM AMOD | 14 | 15 | 14 | 14 | 13 | 15 | 15 | 15 |
| 6099 | 5102 | KAKADE OMKAR KESHAV | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6030 | 5103 | KAMTHE ATHARV SANJAY | 13 | 13 | 12 | 12 | 12 | 12 | 13 | 15 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6122 | 5104 | KAMTHE SAMRUDDHI AJIT | 12 | 13 | 15 | 14 | 15 | 15 | 14 | 15 | |
| 6031 | 5105 | KARAJAGI MOHAMMAD KAIF SAM | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | |
| 6039 | 5106 | KAUSHAL HARIBA LOHAR | 14 | 14 | 14 | 13 | 12 | 12 | 12 | 12 | |
| 6032 | 5107 | KAZI ASAD ALI | 14 | 12 | 14 | 14 | 12 | 12 | 12 | 12 | |
| 6033 | 5108 | KHAIRE GAURI DEEPAK | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 14 | |
| 6034 | 5109 | KHAN MASIRA FAYYAZ | 13 | 13 | 14 | 12 | 12 | 12 | 12 | 13 | |
| 6036 | 5110 | KHODE POOJA VENKAT | 13 | 12 | 15 | 14 | 12 | 12 | 12 | 12 | |
| 6068 | 5111 | KIRAN DNYANESHWAR SALUNKE | 12 | 12 | 14 | 12 | 12 | 12 | 12 | 12 | |
| 6115 | 5112 | KOLEKAR MADHURI DATTA | 13 | 13 | 13 | 14 | 12 | 12 | 12 | 14 | |
| 6123 | 5113 | KONDALKAR RUTIKA JAGDISH | 14 | 13 | 15 | 14 | 12 | 12 | 12 | 12 | |
| 6037 | 5114 | KOSHATWAR SURABHI GAJANAN | 14 | 13 | 15 | 15 | 12 | 13 | 12 | 13 | |
| 6118 | 5115 | KOTE SAYALI RAMESH | 13 | 13 | 13 | 14 | 12 | 12 | 12 | 15 | |
| 6098 | 5116 | KP AKASH RAJAN | 12 | 12 | 14 | 12 | 12 | 12 | 12 | 12 | |
| 6040 | 5117 | LOHAR SHREE SHAILESH | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 6041 | 5118 | LONDHE MIHIKA SUNIL | 13 | 13 | 14 | 14 | 12 | 12 | 12 | 13 | |
| 6042 | 5119 | MADKI MOHD MUSHARAF MOHD | 13 | 13 | 12 | 12 | 12 | 12 | 13 | 12 | |
| 6043 | 5120 | MALWADE AAKANKSHA DATTATR | 13 | 13 | 12 | 15 | 12 | 12 | 12 | 14 | |
| 6044 | 5121 | MANNUR UZAIR SHAKIL | 12 | 13 | 15 | 14 | 12 | 12 | 13 | 14 | |
| 6108 | 5122 | MATKAR VISHAL KUSHINATH | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 6035 | 5123 | MD AFROZ HAIDERALI KHAN | 13 | 12 | 13 | 12 | 12 | 12 | 14 | 12 | |
| 6045 | 5124 | MOHAK V MALSHET | 13 | 14 | 12 | 14 | 12 | 12 | 12 | 14 | |
| 6124 | 5125 | MOHAMMED TAHER ALI | 14 | 14 | 14 | 15 | 14 | 15 | 14 | 15 | |
| 6047 | 5126 | MUJUMALE SARVESH KAILAS | 13 | 12 | 14 | 14 | 12 | 12 | 12 | 12 | |
| 6121 | 5127 | MULANI SAHIL SHAMSHODDIN | 13 | 13 | 14 | 14 | 12 | 12 | 12 | 14 | |
| 6048 | 5128 | MULE RAMESHWARI GANESH | 15 | 13 | 15 | 14 | 12 | 12 | 14 | 15 | |
| 6050 | 5129 | NAIK AWANI GANESH | 14 | 14 | 14 | 15 | 12 | 13 | 15 | 15 | |
| 6051 | 5130 | NAIK SHREYASH SHAHAJI | 13 | 12 | 13 | 13 | 12 | 12 | 12 | 12 | |
| 6052 | 5131 | NAIR MEGHA JAYAKUMAR | 13 | 13 | 14 | 12 | 12 | 14 | 12 | 15 | |
| 6053 | 5132 | NIDAGUNDI NIHAL SHAKEEL | 12 | 14 | 14 | 12 | 12 | 14 | 12 | 14 | |
| 6126 | 5133 | PALVE SHREYA SANDIP | 14 | 14 | 12 | 12 | 12 | 12 | 12 | 14 | |
| 6054 | 5134 | PANDHARE SEJAL SATISH | 14 | 14 | 14 | 15 | 14 | 15 | 15 | 15 | |
| 6105 | 5135 | PASHA WASIM N | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 6109 | 5136 | PATIL RUPALI CHANDRAKANT | 12 | 12 | 12 | 14 | 12 | 12 | 12 | 14 | |
| 6055 | 5137 | PATIL RUSHIKEH VASANTRAO | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | |
| 6056 | 5138 | PATIL SUJIT MAHADEV | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 6120 | 5139 | PATIL SUMIT DEEPAK | 13 | 13 | 12 | 12 | 12 | 13 | 12 | 12 | |
| 6111 | 5140 | PATIL VIPRAJ MUGUTRAO | 12 | 13 | 12 | 13 | 12 | 12 | 12 | 12 | |
| 6060 | 5141 | PT ANASWER AJITHAN | 13 | 13 | 14 | 14 | 12 | 12 | 14 | 14 | |
| 6061 | 5142 | RATHOD JEETENDRA BHAWARLAI | 12 | 12 | 14 | 13 | 12 | 12 | 12 | 14 | |
| 6062 | 5143 | RATHOD PRATIK MADHUKAR | 12 | 12 | 12 | 14 | 12 | 12 | 12 | 13 | |
| 6064 | 5144 | RAUT SHRUTI SACHIN | 13 | 12 | 12 | 13 | 12 | 12 | 12 | 15 | |
| 6066 | 5145 | RENUSE GANESH BHIMSEN | 14 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 6067 | 5146 | ROY SHIVAM DHARMENDRA | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 6069 | 5147 | SALUNKE RAJ CHANDRASHEKHAR | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | |
| 6113 | 5148 | SANAS SARTHAK GULAB | 12 | 12 | 12 | 13 | 12 | 12 | 12 | 12 | |
| 6070 | 5149 | SANJANA YADAV | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 6072 | 5150 | SAYYED MOHD MUKHTAR RAZA I | 12 | 12 | 13 | 13 | 12 | 12 | 12 | 14 | |
| 6073 | 5151 | SHAH ANIKET SAGAR | 12 | 12 | 12 | 13 | 12 | 12 | 12 | 15 | |
| 6125 | 5152 | SHAH NATASHA SAMEER | 13 | 12 | 13 | 12 | 14 | 12 | 12 | 14 | |
| 6100 | 5153 | SHAHVEZ PARVEZ MEMON | 12 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 6074 | 5154 | SHAIKH AMAN SAYYED ALI | 12 | 12 | 13 | 13 | 12 | 12 | 12 | 14 | |
| 6076 | 5155 | SHAIKH RIZWAN RIYAZ | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | |
| 6093 | 5156 | SHANTANU MANDAR VEDAK | 15 | 15 | 15 | 15 | 12 | 12 | 12 | 15 | |
| 6079 | 5157 | SHETE HARSHADA UMAJI | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | |
| 6107 | 5158 | SMIT MANOJ GUJAR | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 6082 | 5159 | SUKALE VISHAL CHANDU | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 | |
| 6083 | 5160 | SURVE UTKARSHA SUNIL | 15 | 14 | 15 | 14 | 14 | 13 | 13 | 15 | |
| 6084 | 5161 | SUTAR KUSUM KUMARI SURESH K | 12 | 14 | 14 | 15 | 14 | 12 | 14 | 15 | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6085 | 5162 | SWAMY SHRUTI RAJU | 12 | 15 | 14 | 15 | 14 | 14 | 14 | 15 |
| 6086 | 5163 | TELKAR ISHA KRISHNA | 15 | 15 | 15 | 15 | 12 | 14 | 13 | 15 |
| 6087 | 5164 | TETGURE TISHA ASHOK | 12 | 12 | 13 | 15 | 12 | 12 | 12 | 15 |
| 6088 | 5165 | THAKUR NEHA VIJAY | 14 | 15 | 14 | 15 | 12 | 14 | 12 | 15 |
| 6089 | 5166 | THORAT OM JITENDRA | 12 | 12 | 13 | 12 | 12 | 12 | 12 | 12 |
| 6090 | 5167 | THORAT PIYUSH SANJU | 15 | 15 | 15 | 15 | 12 | 12 | 12 | 15 |
| 6091 | 5168 | TINGARE OMKAR PRASHANT | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6092 | 5169 | VADJE PRAJAKTA BHAU | 15 | 13 | 13 | 14 | 12 | 12 | 12 | 15 |
| 6057 | 5170 | VAIBHAV SANJAY PHALKE | 14 | 12 | 12 | 12 | 12 | 12 | 12 | 15 |
| 6112 | 5171 | VIDHATE ARYAN SANTOSH | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6110 | 5172 | WAIKAR PIYUSH HANUMANT | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6102 | 5173 | YADAV AAKASH ARVIND | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6095 | 5174 | YASH RAJBAHADUR VERMA | 14 | 14 | 14 | 15 | 12 | 12 | 12 | 14 |
| 6071 | 5175 | ZAMAAN SAYED | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6097 | 5176 | ZARI NOUSHIN ABDUL VAHID | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 14 |
| 100 | 5177 | DAREKAR SATYAM SATISH | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6104 | 22039 | TAMBOLI ANAS JAVED | 12 | 12 | 12 | 14 | 12 | 12 | 12 | 14 |
| | | | | | | | | | | |
| | | **Total Student** | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 |
| | | **Present** | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 |
| | | **Absent** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | **Pass** | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 |
| | | **Fail** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | **Passing Percentage (%)** | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

Class Teacher     Co-ordinator     HOD     Principal

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts,
Commerce & Science
Kondhwa(Bk.), Pune-411 048.

4

Name: Ayush A. Mehta
Class: TYBSc(CS) Div: B
Rollno: 6481

Q.1 | Explain different methods used to maintain state
in PPP
① Hidden Fields
One session tracking technique is to use hiddening
form fields to pass data from one page to another
PHP treats form fields like normal farm fields,
so valves are available in GET or POST POST
arrays.
eg. < form action = " myform.php" method = " post >
       <select name = " selected - product - id" >
         <option value = "121" > product 121 </option)
         <option value = "122") Product 122 </ option)
       < / select)
       <$ input type = " submit value = " select product",
    < /form>
we could return a page to him using following code.
<input type = " hidden" name = " chosen product - id"
       value = "< ? php echo $ POST [ selected product
                   id ]; ? >" >
② URL Rewriting. In this technique you can add
some extra information in URL For eg. you can
assign a unique lo to a user as given below so
that this ID can be passed to that page
http //www. nirali.com / cat a log. php ? userid=123

This method is insecure because everyone can See the values K also can change values in the URL

③ cookies: It is a bit of information that server can give to client on every subsequent request client will give information back to the server.

Q.2 what is sticky form? Explain with example.

→ ① In sticky forms the values entered by user remain displayed with form component, if we display form component. eg. If we search Google (http://www.google.com) for "PHP cookbook" top of the results page contains another search box which already contains "PHP cookbox"

```
<html>
<head><title> greet user </title></head>
<body>
<form action="<? php echo $ SERVER['PHP.SE
    ? >" method="GET">
    Enter your Name:
    <input type="text" name="name[value="
    "<?php echo $-GET['name I']; ? >"/>
    <br/>
    <input type="submit" name="ok"/>
</form>
<? php
    if(is set( $ GET['name I'])] {
        (nm = $-GET['namel'];
        echo "Hello", $nm;
    }
? >    </body> </html>
```

3 Difference between XML & HTML

① HTML tags are predefined, XML tag are of not predefined.

② HTML is used to display data but XML is used to store & transport data.

Q.4 State difference between GET and POST method.

① Both GET and POST method create an array eg. array (key=) value, Key2 = value 2. key 3 = value 3, ② The array holds key/value pairs, where keys are the names of the form controls and values are i/P

② Both GET and POST are treated as $ GET and $ POST, These are superglobals.

③ GET requests are idempotent i.e one GET request ~~are Indempotent ie~~ for a particular URL including form parameters is the same as 2 or more request for that URL POST requests are not idempotent that means they cannot be cached and the server is recontacted every time the page is displayed.

④ Information of GET is visible to everyone in the URL with a limit of 2000 characters. POST method's information is invisible to others and no limit for amount of information to send POST supports advanced functionalities such as support for multi-part binary input with uploading files to server However the pages cannot be bookmarked because variables are not displayed in URL

```
<script>
    var a = 40;
    if (a% 2 == 0)
    {
        document write ("a is even number");
    } else {
                document.write ('a isodd
                                    number');
    }
    </script>
    O/P => a is even number
```

③ If else statement :
It is one level advance form of control
statement that allows java script to make correct
decision out of several condition.
syntax.

```
    if (condition)
    {
            // execute statement ;
                                    }

        else if (condition)
    { // execute this ;
        }

    else
    {
            // execute this
        }
```

④ Switch statement :
It is used to execute one of statements from

many blocks of statements. It is like enhanced
if-else-if else statement, only less confusing
& more easy & simple to use.

syntax →

```
Switch (value / expression)
{
    case: "value 1" :
        // execute
        break;
    case "value 2" :
        // execute
        break;
    default:
        // execute
}
```

> ➤ VCACS has conducted various activities for Continuous Internal Evaluation (CIE) like Class Test, Assignment, Seminar etc. Following are the sample of Class Test Notice, Time-table, Mark-sheet, Assignment Notice and Assignment Submission.

Bansilal Ramnath Agarwal Charitable Trust's

# Vishwakarma College of Arts, Commerce and Science, Pune.
**(Affiliated to Savitribai Phule Pune University)**
NAAC Accredited with 'B+' Grade

Date: 24th March 2021

# NOTICE

All the students FY and SY B.Sc(CS) are hereby informed that **"Online Class Test"** Examination will be held from Thursday, 1/4/2021 to 10/4/2021. Kindly refer the timetable sent on Official WhatsApp group for schedule of Class Test.
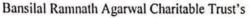
Note: -

1. Student should give the examination in mentioned schedule as per timetable.
2. It is mandatory to give this **"Online class test"**, as it's comes under the Continuous Evaluation program of CBCS.

Coordinator                    HOD                    **Principal**
Dr. Arun R.
PRINCI
Vishwa...        ...ge of Arts
...        & Science
...        ...), Pune - 411 048.

# Vishwakarma College of Arts, Commerce and Science, Pune.
### (Affiliated to Savitribai Phule Pune University)
NAAC Accredited with 'B+' Grade
## Department of Computer Science
## Class Test (Time-Table Apr 2021)

### SY BSc (Computer Science) Sem IV

| Sr No | Date | Time | Subject |
|-------|------|------|---------|
| 1 | 1/4/2021 Thursday | 9.30 am to 10:00 am | CS 241 DATA STRUCTURES AND ALGORITHMS - II |
| 2 | 3/4/2021 Saturday | 9.30 am to 10:00 am | CS 242 COMPUTER NETWORKS - I |
| 3 | 5/4/2021 Monday | 9.30 am to 10:00 am | ELC-241 EMBEDDED SYSTEM DESIGN |
| 4 | 6/4/2021 Tuesday | 9.30 am to 10:00 am | ELC-242 WIRELESS COMMUNICATION & INTERNET OF THINGS |
| 5 | 7/4/2021 Wednesday | 9.30 am to 10:00 am | MTC 241 COMPUTATIONAL GEOMETRY |
| 6 | 8/4/2021 Thursday | 9.30 am to 10:00 am | MTC-242 OPERATIONS RESEARCH |
| 7 | 9/4/2021 Friday | 9.30 am to 10:00 am | AECC-II LANGUAGE COMMUNICATION - II |
| 8 | 10/4/2021 Saturday | 9.30 am to 10:00 am | AECC-I ENVIRONMENTAL AWARENESS - II |

Coordinator          HOD          Principal R. Patil
                                  PRINCIPAL
                      Vishwakarma College of Arts
                         Commerce & Science
                   Kondhwa(Bk.), Pune - 411 048.

Scanned with CamScanner

# VISHWAKARMA COLLEGE OF ARTS, COMMERCE & SCIENCE KONDHWA(BK),PUNE

## Theory Internal Credit Marks(2020-21)

| Sr No. | Seat No. | Roll No. | Student's Name | CI | CII | M-I | MII | EI | EII | ENG | EVS (Out of 15) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 22081 | 6280 | MANDHARE NISHA SUSHANT | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 2 | 22082 | 6201 | ABHIJIT BHAGWAN PILANE | 13 | 13 | 12 | 13 | 15 | 12 | 12 | 11 |
| 3 | 22083 | 6202 | ADHAV VAIBHAV GAJENDRA | 11 | 15 | 9 | 13 | 13 | 13 | 14 | 10 |
| 4 | 22084 | 6365 | AHEMAD SAMIM | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 5 | 22085 | 6203 | ALLAM SAURAV RAJESH | 12 | 15 | 10 | 11 | 12 | 13 | 11 | 13 |
| 6 | 22086 | 6321 | PRAJAPATI AMAN JAWAHARLAL | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 7 | 22087 | 6368 | AMRITHA SIVA PRASAD | 13 | 15 | 15 | 14 | 14 | 12 | 13 | 12 |
| 8 | 22088 | 6204 | ANGIDIKAR PRATHAM SOMNATH | 13 | 15 | 11 | 15 | 14 | 14 | 13 | 12 |
| 9 | 22089 | 6205 | ARE RUTUJA ARUN | 10 | 15 | 13 | 13 | 13 | 11 | 11 | 11 |
| 10 | 22090 | 6206 | ATAR ALFIYAH KAUSAR SAMEER | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 11 | 22091 | 6207 | BATABYAL SOUMYAJIT SUDIP | 12 | 15 | 11 | 13 | 13 | 13 | 10 | 10 |
| 12 | 22092 | 6208 | BHAGAT SAGAR GOVINDRAI | 8 | 14 | 12 | 11 | 13 | 13 | 11 | 8 |
| 13 | 22093 | 6209 | BHALERAO GANESH DILIP | 10 | 12 | 8 | 8 | 10 | 8 | 8 | 8 |
| 14 | 22094 | 6338 | SHETTY BHARAT PREM | 12 | 14 | 10 | 11 | 12 | 11 | 10 | 10 |
| 15 | 22095 | 6210 | BHONDWE SAKSHI BHUPENDRA | 13 | 15 | 15 | 15 | 14 | 14 | 13 | 13 |
| 16 | 22096 | 6211 | BHORADE PRIYANKA RAVINDRA | 12 | 14 | 11 | 12 | 14 | 14 | 14 | 11 |
| 17 | 22097 | 6212 | BHOSALE ADITYA SANJAY | 13 | 14 | 9 | 13 | 14 | 14 | 14 | 13 |
| 18 | 22098 | 6213 | BHOSALE KUNAL DATTATRAY | 11 | 15 | 10 | 12 | 13 | 13 | 13 | 13 |
| 19 | 22099 | 6214 | BIRADAR SUNITA BALU | 14 | 15 | 12 | 13 | 12 | 11 | 14 | 13 |
| 20 | 22100 | 6215 | BORA BHAVESH RAVINDRA | 12 | 15 | 10 | 15 | 13 | 13 | 13 | 11 |
| 21 | 22101 | 6216 | CHANDEL SHASHWAT SHIVPRATAP | 9 | 12 | 11 | 9 | 9 | 8 | 12 | 12 |
| 22 | 22102 | 6217 | CHATLA KOMAL PRASHANT | 14 | 15 | 15 | 15 | 14 | 15 | 12 | 13 |
| 23 | 22103 | 6218 | CHAUDHARI DARSHAN RAVINDRA | 13 | 15 | 13 | 14 | 15 | 14 | 13 | 13 |
| 24 | 22104 | 6219 | CHAVAN ANIKET BALASAHEB | 13 | 14 | 9 | 13 | 13 | 13 | 14 | 13 |
| 25 | 22105 | 6220 | CHAVAN BHUSHAN PRAKASH | 12 | 15 | 12 | 14 | 15 | 13 | 13 | 12 |
| 26 | 22106 | 6221 | CHAVAN NEHA TANAJI | 14 | 15 | 14 | 13 | 14 | 12 | 13 | 13 |
| 27 | 22107 | 6222 | CHAVAN PRAJAKTA PRATAP | 12 | 15 | 11 | 13 | 15 | 13 | 12 | 11 |
| 28 | 22108 | 6223 | CHAVAN PRATIKSHA SUNIL | 12 | 15 | 12 | 14 | 15 | 12 | 14 | 11 |
| 29 | 22109 | 6224 | CHAVAN ROHIT RAJENDRA | 11 | 15 | 12 | 14 | 15 | 13 | 13 | 12 |
| 30 | 22110 | 6225 | CHOUDHARI ANUSHKA VIJAY | 14 | 15 | 14 | 14 | 14 | 14 | 14 | 14 |
| 31 | 22111 | 6226 | CHOUDHARI PRANIL ANIL | 13 | 15 | 12 | 14 | 15 | 13 | 13 | 13 |
| 32 | 22112 | 6227 | CHOUDHARY NEELAM SOBARAM | 12 | 13 | 12 | 13 | 12 | 13 | 12 | 12 |
| 33 | 22113 | 6228 | DAHIWAL DHIRAJ GANESHRAO | 8 | 12 | 8 | 8 | 9 | 10 | 8 | 8 |
| 34 | 22114 | 6229 | DAIMIWAL TASMAY GHANSHYAM | 12 | 14 | 12 | 14 | 13 | 13 | 12 | 13 |
| 35 | 22115 | 6230 | DALVI NAMRATA RAJU | 14 | 14 | 14 | 15 | 14 | 10 | 12 | 12 |
| 36 | 22116 | 6231 | DANI SEJAL VIJAY | 12 | 15 | 10 | 12 | 13 | 12 | 12 | 11 |
| 37 | 22117 | 6232 | DEGAONKAR GAURI PRAVEEN | 10 | 14 | 9 | 10 | 12 | 12 | 13 | 8 |
| 38 | 22118 | 6233 | DESHMUKH PRATHAMESH KISHOR | 9 | 13 | 9 | 11 | 13 | 14 | 10 | 8 |
| 39 | 22119 | 6234 | DHIMATE PRACHI PRAMOD | 14 | 15 | 13 | 13 | 13 | 14 | 12 | 12 |
| 40 | 22120 | 6235 | DHONGADI AVENDRA RAHUL | 12 | 15 | 12 | 14 | 13 | 13 | 13 | 12 |

| No | ID | Code | Name | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 131 | 22211 | 6319 | PITRE ISHAN SAMIR | 9 | 13 | 11 | 12 | 12 | 13 | 12 | 12 |
| 132 | 22212 | 6320 | PONNARKAR KUNAL BALU | 12 | 15 | 11 | 13 | 13 | 14 | 13 | 12 |
| 133 | 22213 | 6322 | RAMPURAWALA HUSSAIN SHABBIR | 12 | 15 | 14 | 13 | 14 | 13 | 13 | 13 |
| 134 | 22214 | 6323 | RODE GAURAV SHIVAJI | 12 | 15 | 10 | 13 | 14 | 13 | 12 | 12 |
| 135 | 22215 | 6324 | SAHU AYUSHI DASHRATH | 12 | 15 | 13 | 13 | 13 | 12 | 12 | 12 |
| 136 | 22216 | 6325 | SALUNKHE NISHA MANOJ | 15 | 15 | 13 | 15 | 13 | 14 | 13 | 13 |
| 137 | 22217 | 6360 | SAROJ POOJA NOKHELAL | 12 | 15 | 15 | 13 | 14 | 12 | 12 | 12 |
| 138 | 22218 | 6371 | SHIVAM SAROJ | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 139 | 22219 | 6326 | SAWANT NEHA SUNIL | 11 | 15 | 8 | 13 | 13 | 12 | 11 | 12 |
| 140 | 22220 | 6327 | SHAH MAITRI ALPESH | 12 | 13 | 11 | 12 | 14 | 13 | 12 | 12 |
| 141 | 22221 | 6361 | SHAHANE SUDHANSHU SURESH | 8 | 14 | 8 | 8 | 12 | 8 | 8 | 12 |
| 142 | 22222 | 6328 | SHAIKH ASIM GAFFAR | 9 | 8 | 13 | 8 | 8 | 8 | 8 | 12 |
| 143 | 22223 | 6329 | SHAIKH AZIM MUSTAFA | 14 | 15 | 13 | 13 | 14 | 14 | 11 | 13 |
| 144 | 22224 | 6330 | SHAIKH NUMAAN KHALID | 8 | 8 | 10 | 11 | 12 | 11 | 8 | 8 |
| 145 | 22225 | 6331 | SHAIKH SHADAB AHMED | 15 | 15 | 14 | 13 | 14 | 14 | 13 | 13 |
| 146 | 22226 | 6332 | SHAIKH UJEF NISAR | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 147 | 22227 | 6333 | SHARMA LAKHAN KRISHNA | 12 | 14 | 14 | 13 | 14 | 13 | 13 | 12 |
| 148 | 22228 | 6334 | SHARMA RADHA PHOOL | 13 | 14 | 15 | 12 | 14 | 12 | 13 | 11 |
| 149 | 22229 | 6335 | SHARMA SANDIP JAYPRAKASH | 13 | 15 | 14 | 15 | 13 | 13 | 13 | 11 |
| 150 | 22230 | 6336 | SHARMA YASH SURAJ | 8 | 12 | 8 | 8 | 8 | 8 | 8 | 12 |
| 151 | 22231 | 6337 | SHENDKAR NIKITA SURESH | 13 | 14 | 15 | 12 | 14 | 12 | 14 | 10 |
| 152 | 22232 | 6339 | SHINDE ROHAN DEVDAS | 13 | 14 | 13 | 10 | 14 | 13 | 13 | 10 |
| 153 | 22233 | 6340 | SHINDE SANKET SANJAY | 13 | 14 | 13 | 13 | 15 | 13 | 13 | 13 |
| 154 | 22234 | 6341 | SHIRKE PRATHAMESH PRAVIN | 8 | 14 | 11 | 8 | 13 | 12 | 10 | 8 |
| 155 | 22235 | 6342 | SHITOLE YUVRAJ SANJAY | 15 | 15 | 14 | 14 | 15 | 15 | 13 | 15 |
| 156 | 22236 | 6343 | SHUKLA SAGAR UMASHANKAR | 8 | 13 | 10 | 9 | 8 | 11 | 12 | 8 |
| 157 | 22237 | 6344 | SINGH KHUSHVEER BHANWAR | 12 | 12 | 13 | 13 | 13 | 13 | 12 | 12 |
| 158 | 22238 | 6345 | SURYAWANSHI VAISHNAVI VITTHAL | 14 | 14 | 15 | 13 | 14 | 11 | 13 | 13 |
| 159 | 22239 | 6346 | TAKAWALE MAYUR MOHAN | 12 | 8 | 10 | 12 | 13 | 13 | 12 | 12 |
| 160 | 22240 | 6347 | TAMBOLI SAMEER NOOR M | 8 | 13 | 9 | 12 | 12 | 11 | 10 | 8 |
| 161 | 22241 | 6367 | THORAT SUCHETAN REVANKUMAR | 8 | 11 | 8 | 8 | 9 | 8 | 10 | 8 |
| 162 | 22242 | 6348 | TOGURAGE AMBIKA BANDAPPA | 13 | 14 | 15 | 12 | 14 | 12 | 14 | 13 |
| 163 | 22243 | 6349 | UBALE SHIVAM MAHESH | 13 | 14 | 15 | 12 | 14 | 13 | 14 | 13 |
| 164 | 22244 | 6350 | ULDE ALTAMASH ALTAF | 13 | 15 | 10 | 12 | 15 | 13 | 12 | 9 |
| 165 | 22245 | 6351 | VATHAR AKASH KHAJAPPA | 12 | 15 | 13 | 13 | 13 | 13 | 13 | 12 |
| 166 | 22246 | 6352 | YADAV GAURAV VIJAYKUMAR | 8 | 14 | 10 | 12 | 14 | 12 | 12 | 8 |
| 167 | 22247 | 6353 | YADAV KRISHNA RAJENDRA | 11 | 14 | 13 | 13 | 14 | 13 | 13 | 13 |
| 168 | 22248 | 6354 | YADAV NAGESHWARKUMAR VIJENDRA | 12 | 14 | 12 | 13 | 13 | 13 | 12 | 13 |
| 169 | 22249 | 6355 | YADAV SANKET VIJAY | 13 | 15 | 14 | 13 | 13 | 13 | 13 | 13 |
| 170 | 22250 | 6363 | YENDHE Prasad | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |
| 171 | 22251 | 6356 | ZAD SHRUTI YOGESH | 12 | 15 | 12 | 12 | 13 | 11 | 11 | 13 |
| 172 | 22252 | 6357 | ZAMBAD SAMIKSHA SANJAY | 13 | 15 | 11 | 12 | 13 | 11 | 11 | 14 |
| 173 | 22253 | 6364 | ZOYA | 8 | 14 | 12 | 12 | 13 | 11 | 12 | 12 |
| 174 | | 6270 | KHEDEKAR CHAITANYA BAJIRAO | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 175 | | 6373 | Vishwakarma Aman | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

| | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 |
|---|---|---|---|---|---|---|---|---|
| Total Student | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 |
| Present | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Absent | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 |
| Pass | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fail | | | | | | | | |

Class Teacher    Coordinator    HOD

**BRACT'S**
**Vishwakarma College of Arts Commerce & Science**
Kondhwa (BK),Pune 411048
**FYMSc(CS) Sem I (2020-21)**
**ASSIGNMENT SUBMISSION NOTICE**

Date : 2/ 4/2021

All students are hereby inform that Assignment I Submission Schedule is as follows:

| Sr. | Subject | Assignment Questions |
|---|---|---|
| 1 | PPL | 1. Explain difference between applicative & normal order evaluation of expression.<br>2. What is a descriptor? Give descriptors for static string, limited dynamic string, and dynamic string.<br>3. Explain discriminated & free unions with the help of suitable diagram.<br>4. Assume that class D is inherited from class A,B, and C, none of which share a common ancestor. Show how data members and v tables of D might be laid out in memory. Show how to convert reference to a D object into a reference to an A, B, or C object.<br>5. Explain SIMD and MIMD multiprocessor architectures in detail. |
| 2 | DAA | 1.Justify $4 \ ^2+3n+2=O(n^2)$<br>2.Exaplain Recurrence relation for Quick sort.<br>3.Find an Optimal solution for Knapsack problem n=7, m=15, p={10,5,15,7,6,18,3} and w={2,3,5,7,1,4,1}<br>4.Str1=S T O N E<br>  Str2= L O N G E S T    Find maximum length common subsequence(LCS)<br>  5.  Find an optimal merge pattern for merging the file size 10,5,7,20,12 |
| 3 | DT | 1. What are aggregates? Explain with example<br>2.Explain the concept of sharding with example.<br>  3. How version stamps are applied on multiple nodes?<br>  4. Write a short note on polyglot persistence<br>  5. Write a short note on incremental migration. |
| 4 | Web Services | 1. Explain Web Service Architecture.<br>2.Explain structure of SOAP Message.<br>3. Write Down Limitations of WSDL .<br>4. Explain Categorization in UDDI.<br>5. Explain Java tools and frameworks for building RESTful web services |
| 5 | AI | 1.What is AI? Describe charactristics of an AI.<br>2.Explain applications of AI.<br>3.Explain generate & test algoritham by giving its advantages & disadvantages.<br>  4.Describe the A* algorithm.<br>  5.Define Heuristic.Explain the significance of Heuristics function in the informed search with suitable example. |
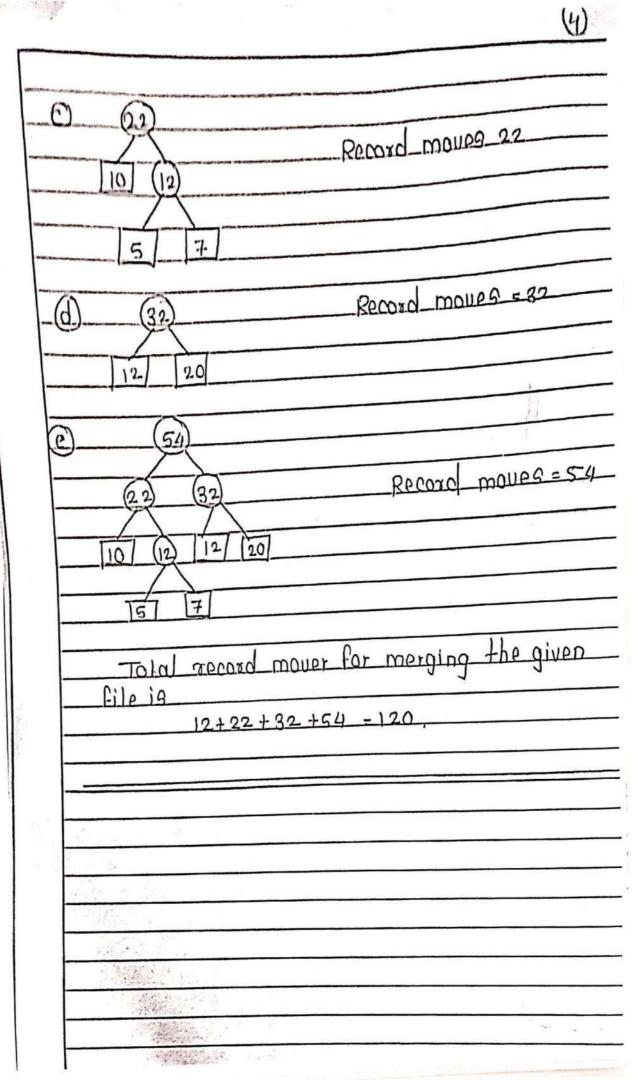
Note :

1. Write this assignements in Journal and upload respective PDF file on google form.
2. It is considered for internal assessment.
3. Students should be responsible for submitting and signing the assignments.
4.Submission date for all subjects- 10th April 2021.

Co-ordinator

HOD

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts,
Commerce & Science
**Principal**
Kondhwa(Bk.), Pune-411 048.

**Q1** Justify $4n^2 + 3n + 2 = O(n^2)$

→

$f(n) = Og(n)$

$f(n) < C \cdot g(n)$

$f(n) = 4n^2 + 3n + 2$ ..... assume $g(n) = n^2$

$4n^2 + 3n + 2 < Cn^2$

Put C = $\dfrac{1}{F}$, $\dfrac{2}{F}$, $\dfrac{3}{F}$, $\dfrac{4}{F}$, $\dfrac{5}{T}$

∴ $\boxed{C = 5}$

∴ $4n^2 + 3n + 2 \leq 5n^2$

|       | $4n^2 + 3n + 2$ | $5n^2$ |          |
|-------|-----------------|--------|----------|
| n=1   | 9               | 5      | - False  |
| n=2   | 24              | 20     | - False  |
| n=3   | 47              | 45     | - False  |
| n=4   | 78              | 80     | - True   |

∴ n=4 satisfy the condition

**Q2)** Explain Recurrence relation for quick sort

→

$T(n) = \begin{cases} & \text{if } n=1 \end{cases}$

c)



Record moves 22

10    12

5    7

d)



Record moves = 32

32

12    20

e)



Record moves = 54

54

22    32

10    12    12    20

5    7

Total record mover for merging the given file is

$$12 + 22 + 32 + 54 = 120.$$

# Savitribai Phule Pune University

## Internal Examination-Time Table

### (Academic Year 2019-20 - Sept 2019)

### T.Y.B.B.A. IB (SEM-V)

| Date | Day | Sub. Code | Subject | Time |
|------|-----|-----------|---------|------|
| 24/9/2019 | Tuesday | 501 | Business Ethics | 8:00 am to 9:00 am |
| | | 502 | Business Law | 9:30 am to 10:30 am |
| 25/9/2019 | Wednesday | 503 | International Relations | 8:00 am to 9:00 am |
| | | 504 | International Banking & Finance | 9:30 am to 10:30 am |
| 26/9/2019 | Thursday | 505 | Business Reporting & Analysis | 8:00 am to 9:00 am |
| | | 506 | E-Commerce | 9:30 am to 10:30 am |

**Seating Arrangement:**

| Roll No | Hall No | Strength |
|---------|---------|----------|
| 4201- 4245 | 107 | 45 |
| 4246 - 4272 | 106 | 27 |

Coordinator                    HOD

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts,
Commerce & Science
Kondhwa(Bk.), Pune-411 048.

Scanned By Scanner Go

# BRACT's
## VISHWAKARMA COLLEGE OF ARTS, COMMERCE & SCIENCE, PUNE-48
### TYBBA-IB SEM-V Internal Marksheet - Oct 2019

| Seat No | Roll No | Students' Name | 501 Ethics | 502 Law | 503 IR | 504 IBF | 505 BR& A | 506 ECom | Total | % |
|---------|---------|----------------|------------|---------|--------|---------|-----------|----------|-------|---|
| 1333 | 4222 | Lavesh Agarwal | 12 | 14 | 13 | 16 | 15 | 14 | 84 | 70% |
| 1334 | 4261 | Ganeriwala Mayank Rajeev | 8 | 8 | 13 | 8 | 8 | 8 | 53 | 44% |
| 1335 | 4262 | Ganla Shreya Sanjay | 8 | 8 | 8 | 8 | 8 | 8 | 48 | 40% |
| 1336 | 4214 | Hakimuddin Hatimali Tailo | 16 | 17 | 18 | 18 | 17 | 16 | 102 | 85% |
| 1337 | 4215 | Harihar Venkatesh Motilal | 8 | 8 | 15 | 10 | 12 | 9 | 62 | 52% |
| 1338 | 4218 | Jangid Rekha Bhavarlal | 15 | 15 | 15 | 19 | 16 | 16 | 96 | 80% |
| 1339 | 4270 | Jay Vijay Chauhan | 8 | 10 | 14 | 12 | 11 | 11 | 66 | 55% |
| 1340 | 4257 | Kakade Ashish Suhas | 8 | 8 | 8 | 9 | 10 | 8 | 51 | 43% |
| 1341 | 4226 | Nahata Divya Suresh | 8 | 14 | 14 | 10 | 8 | 8 | 62 | 52% |
| 1342 | 4229 | Oswal Vineet Rajesh | 12 | 13 | 13 | 14 | 13 | 8 | 73 | 61% |
| 1343 | 4266 | Pandey Sumeet Hausilapras | 12 | 12 | 15 | 16 | 14 | 15 | 84 | 70% |
| 1344 | 4268 | Parekh Parth Ghanshyam | 15 | 15 | 16 | 14 | 15 | 14 | 89 | 74% |
| 1345 | 4269 | Parekh Prakashkumar Bhara | 14 | 14 | 15 | 16 | 16 | 16 | 91 | 76% |
| 1346 | 4234 | Raskonda Harshkumar Dine | ab | ab | 9 | 0 | 1 | 8 | 18 | 15% |
| 1347 | 4236 | Rathod Bhavana Ganpatlal | 11 | 13 | 17 | 17 | 16 | 16 | 90 | 75% |
| 1348 | 4240 | Shah Jainam Satish | 8 | 15 | 12 | 18 | 15 | 11 | 79 | 66% |
| 1349 | 4272 | Shah Mahima Rahul | 10 | 10 | 17 | 13 | 11 | 9 | 70 | 58% |
| 1350 | 4263 | Singh Mili Ashitkumar | 0 | 0 | 11 | 13 | 8 | 9 | 41 | 34% |
| 1351 | 4265 | Solanki Sanket Chetan | 8 | 8 | 0 | 0 | 8 | 8 | 32 | 27% |
| 1352 | 4271 | Tamboli Adnan Rafique | 14 | 16 | 17 | 16 | 16 | 16 | 95 | 79% |
| 1353 | 4249 | Thakkar Darshit Chandraka | 8 | 13 | 12 | 13 | 11 | 10 | 67 | 56% |
| 1354 | 4254 | Tiwatane Sahil Jagannath | 8 | 9 | 8 | 8 | 8 | 8 | 49 | 41% |
| 1355 | 4250 | Todkar Pratik Kishor | 8 | 8 | 8 | 8 | 8 | 8 | 48 | 40% |
| 1356 | 4251 | Vaidya Siddhesh Rahul | 8 | 8 | 10 | 10 | 8 | 8 | 52 | 43% |
| 1357 | 4253 | Yalgi Asif Hasan | 8 | 10 | 12 | 13 | 11 | 11 | 65 | 54% |
| 1358 | 4201 | Attarde Chandan Vishnu | 14 | 11 | 15 | 15 | 14 | 14 | 83 | 69% |
| 1359 | 4202 | Ayush Agrawal | 15 | 15 | 15 | 16 | 17 | 17 | 95 | 79% |
| 1360 | 4203 | Badade Prathmesh Kiran | 15 | 16 | 17 | 17 | 16 | 16 | 97 | 81% |
| 1361 | 4264 | Yash Mahavir Bagmar | 8 | 8 | 0 | 0 | 8 | 8 | 32 | 27% |
| 1362 | 4256 | Bhalerao Yogini Milind | 11 | 14 | 19 | 19 | 15 | 15 | 93 | 78% |
| 1363 | 4259 | Butala Parthav Dinesh | 9 | 8 | 12 | 8 | 8 | 8 | 53 | 44% |
| 1364 | 4204 | Chavan Harsh Jiteshkumar | 11 | 12 | 13 | 15 | 11 | 8 | 70 | 58% |
| 1365 | 4205 | Chawlani Yash Ramesh | 8 | 9 | 13 | 11 | 13 | 13 | 67 | 56% |
| 1366 | 4206 | Chitale Riddhi Rajeev | 15 | 16 | 15 | 15 | 15 | 13 | 89 | 74% |
| 1367 | 4207 | Chopda Neel Rajkumar | 8 | 10 | 15 | 15 | 16 | 11 | 75 | 63% |
| 1368 | 4258 | Darak Rajat Ashok | 14 | 14 | 14 | 10 | 13 | 10 | 75 | 63% |
| 1369 | 4208 | Deshmukh Akash Kailas | 15 | 16 | 18 | 16 | 17 | 15 | 97 | 81% |
| 1370 | 4209 | Deshmukh Saloni Manoj | 11 | 8 | 13 | 13 | 9 | 11 | 65 | 54% |
| 1371 | 4210 | Gaikwad Omkar Ganesh | 13 | 8 | 11 | 11 | 8 | 9 | 60 | 50% |
| 1372 | 4211 | Gavai Pushkaraj | 14 | 15 | 18 | 16 | 17 | 17 | 97 | 81% |
| 1373 | 4212 | Gounder Aishwarya Mani | 11 | 13 | 18 | 16 | 15 | 15 | 88 | 73% |
| 1374 | 4213 | Gundecha Mansi Sunil | 11 | 13 | 19 | 16 | 16 | 16 | 91 | 76% |
| 1375 | 4216 | Inamdar Noorhalima Faiyaz | 19 | 19 | 20 | 20 | 19 | 19 | 116 | 97% |
| 1376 | 4217 | Jadhav Sagar Sharad | 11 | 9 | 17 | 16 | 16 | 14 | 83 | 69% |
| 1377 | 4255 | Jagtap Aniket Sampat | 8 | 13 | 17 | 14 | 12 | 15 | 79 | 66% |
| 1378 | 4219 | Kandhare Pramod Narayan | 8 | 8 | 8 | 9 | 8 | 8 | 49 | 41% |
| 1379 | 4220 | Kumari Anshul Vijaykumar | 17 | 17 | 20 | 20 | 18 | 20 | 112 | 93% |
| 1380 | 4221 | Kunchetti Aishwarya Shrini | 14 | 16 | 20 | 20 | 17 | 17 | 104 | 87% |
| 1381 | 4223 | Manavi Rudra Raghavendra | 11 | 12 | 16 | 16 | 8 | 13 | 76 | 63% |
| 1382 | 4224 | Mankani Simran Prakash | 13 | 11 | 18 | 17 | 15 | 15 | 89 | 74% |
| 1383 | 4225 | Mantri Sanket Radhesham | 15 | 16 | 18 | 18 | 18 | 18 | 103 | 86% |
| 1384 | 4227 | Najmi Mustafa Yusuf | 9 | 8 | 13 | 13 | 14 | 14 | 71 | 59% |
| 1385 | 4228 | Oswal Ishaan Rakesh | 10 | 14 | 19 | 18 | 16 | 16 | 91 | 76% |

138

| St No | Roll No | Students' Name | 501 Ethics | 502 Law | 503 IR | 504 IBF | 505 BR&A | 506 ECom | Total | % |
|---|---|---|---|---|---|---|---|---|---|---|
| 1386 | 4230 | Palange Siddeshwar Ramesh | 8 | 8 | 18 | 14 | 14 | 10 | 72 | 60% |
| 1387 | 4231 | Patwa Pawan Narendra | 16 | 16 | 18 | 17 | 14 | 14 | 95 | 79% |
| 1388 | 4232 | Punjabi Simran Prakash | 15 | 14 | 17 | 15 | 15 | 15 | 91 | 76% |
| 1389 | 4233 | Raisoni Divya Rajesh | 8 | 11 | 17 | 15 | 13 | 13 | 77 | 64% |
| 1390 | 4235 | Rathi Shridhar Narendra | 11 | 10 | 18 | 16 | 15 | 11 | 81 | 68% |
| 1391 | 4237 | Rushikesh Loya | 19 | 19 | 20 | 20 | 18 | 19 | 115 | 96% |
| 1392 | 4238 | Safri Sakina Asgerali | 16 | 15 | 20 | 20 | 18 | 19 | 108 | 90% |
| 1393 | 4239 | Sayyed Sadiya Irshad | 11 | 10 | 19 | 17 | 17 | 17 | 91 | 76% |
| 1394 | 4241 | Shah Nidhi Rajeshkumar | 8 | 10 | 16 | 15 | 15 | 15 | 79 | 66% |
| 1395 | 4242 | Shah Urmi Bankim | 15 | 17 | 20 | 18 | 18 | 16 | 104 | 87% |
| 1396 | 4243 | Shah Yash Jignesh | 12 | 15 | 16 | 15 | 14 | 14 | 86 | 72% |
| 1397 | 4244 | Shaikh Alifiya Asif | 12 | 15 | 19 | 19 | 15 | 15 | 95 | 79% |
| 1398 | 4245 | Shaikh Mohammedfaisal Ja | 12 | 10 | 19 | 18 | 14 | 14 | 87 | 73% |
| 1399 | 4260 | Sharma Shivam Mahesh | 16 | 12 | 19 | 19 | 17 | 18 | 101 | 84% |
| 1400 | 4267 | Shashikesh Chaudhary | 15 | 16 | 17 | 16 | 15 | 15 | 94 | 78% |
| 1401 | 4246 | Shetty Pooja Vijay | 15 | 16 | 19 | 18 | 15 | 15 | 98 | 82% |
| 1402 | 4247 | Sinha Anvesha Vijay | 11 | 14 | 18 | 16 | 14 | 14 | 87 | 73% |
| 1403 | 4248 | Srinivasan Abhishek S | 9 | 13 | 15 | 14 | 13 | 11 | 75 | 63% |
| 1404 | 4252 | Watharkar Omkar Shrikant | 9 | 9 | 11 | 9 | 13 | 8 | 59 | 49% |

| | | | 501 | 502 | 503 | 504 | 505 | 506 |
|---|---|---|---|---|---|---|---|---|
| TOTAL STUDENTS | | | 72 | 72 | 72 | 72 | 72 | 72 |
| PRESENT | | | 71 | 71 | 72 | 72 | 72 | 72 |
| ABSENT | | | 1 | 1 | 0 | 0 | 0 | 0 |
| FAIL | | | 1 | 1 | 2 | 3 | 1 | 0 |
| PASS | | | 70 | 70 | 70 | 69 | 71 | 72 |

Coordinator

HoD

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts,
Commerce & Science
Kondhwa(Bk.), Pune-411 048.

# BRACT'S
## Vishwakarma College of Arts Commerce & Science
### Kondhwa (BK),Pune 411048
### FYBBA(CA) ASSIGNMENT SUBMISSION NOTICE

Date :1st August 2019

All students are hereby inform that Assignment I Submission Schedule is as follows:

| Sr. | Name of | Assignment Questions | Submission |
|---|---|---|---|
| 1 | Business Communication | Q.1 Define the term Communication. Q.2 Explain the importance and principles of effective communication. Q.3 Distinguish between oral communication and written communication | 07/08/2019 |
| 2 | Principles of M. | 1. Describe the concept of management. | 07/08/2019 |
| 3 | C Programming | 1. What is identifiers, tokens and constants in C language? 2. What are different Data types in C? 3. Write note on diffent operators in C? 4. Explain printf(), scanf(), getchar(), gets(), puts()? 5. Basic structure of C language | 08/08/2019 |
| 4 | Database | Draw ER diagram and write query for the following   Q1. | 08/08/2019 |
| 5 | Stastics | Assignment frequency distribution (Refer example 21, 22, 23,37, 51, 52 on page number 2.29, 2.32 and 2.34) | 09/08/2019 |
| 6 | Primciples of programming | Write and Draw flowchart and algorithm for the following: 1. Sum of first N natural numbers.  2. Reverse of digit.  3.Prime numbers. 4. Factors of number. 5. Factorial of numbers | 09/08/2019 |

Note :

1. All students should submit assignement to respective subject teacher.

2. It is considered for internal assessment.

3. Students should be responsible for submitting and signing the assignments withing stipulated time.

Co-ordinator

HOD
Science

Principal
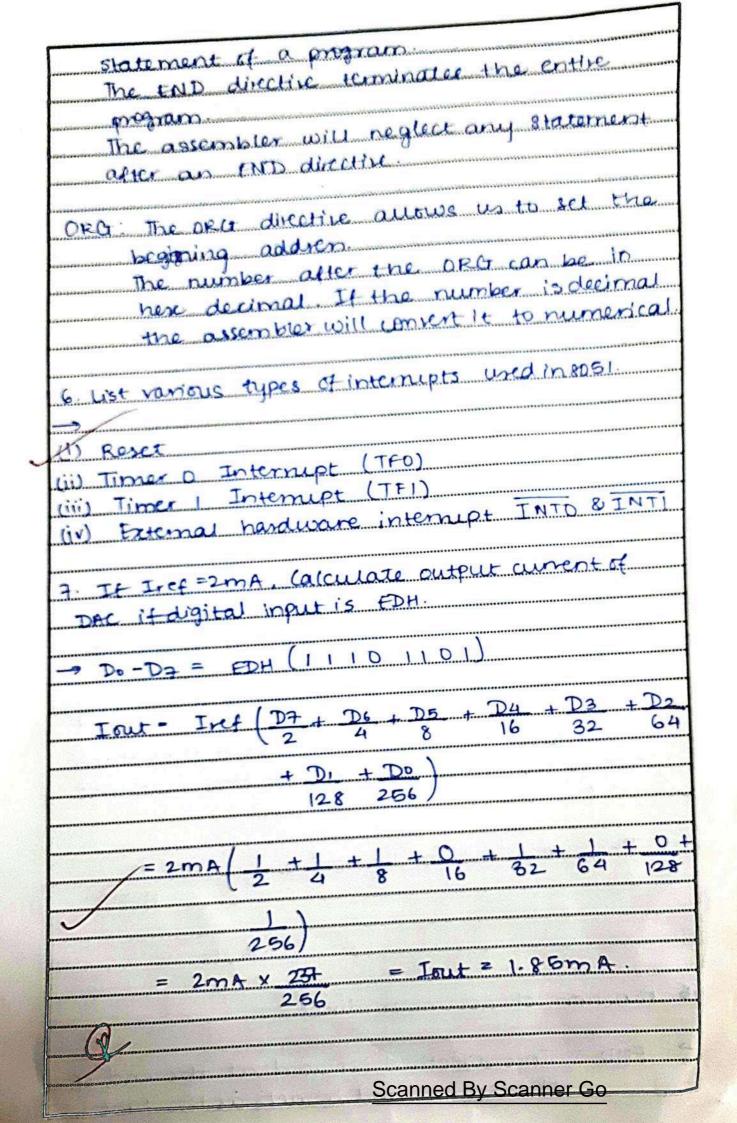
Name : Bhushan R. Shirsale          Roll no. ! 6305

Subject : Electronics

Q.I]  Any six:

I] Write any 4 features of 8051 Microcontroller.

→ 8 bit CPU optimized for control application.
   16 bit address bus.
   4kb of on-chip program memory (ROM)
   128 bit of on-chip data memory (RAM)
   2 - 16 bit timer counter.

2] function for $\overline{PSEN}$ & ALE pins in 8051.

→ $\overline{PSEN}$ : Program store enable is a active low
         pin. It is accessed incase of external
         ROM access.

   ALE : It is an active high output pin stands
         for Address latch enable. Since port is
         used to send both address and data
         using both multiplexing technique,
         during external memory interfacing.

3. If oscillator frequency of 8051 is 10 MHz, then
   what is the time required for one machine
   cycle?

→ Time required for I machine cycle = $\dfrac{12}{10 \times 10^{6}}$

                                    = 1.2 $\mu s$

4. Function of assembler directives:

→ END : This directive is placed at the end of
        the source and it acts as the last

statement of a program.
The END directive terminates the entire
program.
The assembler will neglect any statement
after an END directive.

ORG: The ORG directive allows us to set the
beginning address.
The number after the ORG can be in
hex decimal. If the number is decimal
the assembler will convert it to numerical.

6. List various types of interrupts used in 8051.
→

(i) Reset
(ii) Timer 0 Interrupt (TF0)
(iii) Timer 1 Interrupt (TF1)
(iv) External hardware interrupt $\overline{INT0}$ & $\overline{INT1}$

7. If $I_{ref} = 2mA$, Calculate output current of
DAC if digital input is EDH.

→ $D_0 - D_7 = EDH$ (1 1 1 0 1 1 0 1)

$$I_{out} = I_{ref}\left(\frac{D7}{2} + \frac{D6}{4} + \frac{D5}{8} + \frac{D4}{16} + \frac{D3}{32} + \frac{D2}{64}\right.$$

$$\left. + \frac{D1}{128} + \frac{D0}{256}\right)$$

$$= 2mA\left(\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{0}{16} + \frac{1}{32} + \frac{1}{64} + \frac{0}{128} +\right.$$

$$\left.\frac{1}{256}\right)$$

$$= 2mA \times \frac{237}{256} \qquad = I_{out} = 1.85\,mA.$$

# Savitribai Phule Pune University

## University Internal Examination-Time Table

### (First Term Sept-2018)

### T.Y.BSc.(C.S.) (SEM-III)

| Date | Day | Sub. Code | Subject | Time |
|---|---|---|---|---|
| 25/9/2018 | Tuesday | CS-331 | System Programming | 12.30 to 1.30pm |
| | | CS-332 | Theoretical Computer science | 2.30 to 3.30pm |
| 26/9/2018 | Wednesday | CS-333 | Computer Networks I | 12.30 to 1.30pm |
| | | CS-334 | Internet Programming-I | 2.30 to 3.30pm |
| 27/9/2018 | Thursday | CS-335 | Programming in Java -I | 12.30 to 1.30pm |
| | | CS-336 | Object oriented Software Engineering | 2.30 to 3.30pm |

**Seating Arrangement:**

| HALL No : | Roll No : | Total |
|---|---|---|
| 108 : | 6401–6445 | 45 |
| 109 : | 6446–6490 | 45 |
| 110 : | 6491– 6520 | 30 |
| 104 : | 6521– 6543 | 23 |

Coordinator                    HOD

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts,
Commerce & Science
Kondhwa Bk.), Pune-411 048.
**Principal**

Scanned By Scanner Go

**BRACT's**

# Vishwakarma College of Arts, Commerce & Science

## TYBSc(CS)

### Internal Exam Result (Sept. 2018)

| Sr. No. | Seat No. | Roll No. | Name | Syspro 10 Marks | TCS 10 Marks | CN 10 Marks | IP 10 Marks | Java 10 Marks | OOSE 10 Marks |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5811 | 6402 | Anandraj P Abel | 4 | 4 | 7 | 4 | 9 | 6 |
| 2 | 5812 | 6405 | Barhate Harshada Dattatray | 5 | 9 | 4 | 5 | 6 | 8 |
| 3 | 5813 | 6406 | Bhosale Ritesh Vitthal | 5 | 4 | 4 | 4 | 6 | 6 |
| 4 | 5814 | 6408 | Chikane Yuvraj Sanjay | 8 | 8 | 8 | 9 | 8 | 9 |
| 5 | 5815 | 6409 | Dale Supriya Bhausaheb | 8 | 9 | 6 | 5 | 6 | 5 |
| 6 | 5816 | 6410 | Darekar Snehal Sandeep | 9 | 5 | 7 | 8 | 9 | 6 |
| 7 | 5817 | 6543 | Delcio | 6 | 4 | 4 | 7 | 4 | 4 |
| 8 | 5818 | 6412 | Desai Siddarth Girish | 9 | 10 | 10 | 9 | 9 | 10 |
| 9 | 5819 | 6413 | Deshmukh Mamta Shankarrao | 4 | 4 | 4 | 4 | 6 | 8 |
| 10 | 5820 | 6414 | Deshmukh Tanuja Nijalingappa | 10 | 10 | 8 | 9 | 10 | 10 |
| 11 | 5821 | 6416 | Dhage Pooja Santosh | 4 | 4 | 5 | 4 | 5 | 5 |
| 12 | 5822 | 6417 | Dhumal Atharva Jitendra | 8 | 6 | 10 | 10 | 8 | 10 |
| 13 | 5823 | 6418 | Dhumal Himanshu Sudhir | 9 | 5 | 8 | 10 | 8 | 6 |
| 14 | 5824 | 6419 | Dhumal Shreyas Sadashiv | 6 | 4 | 7 | 6 | 6 | 6 |
| 15 | 5825 | 6420 | Gabale Shripad Shrikrashna | 6 | 4 | 4 | 6 | 8 | 5 |
| 16 | 5826 | 6422 | Gaikwad Sachin Suresh | 7 | 6 | 4 | 5 | 5 | 7 |
| 17 | 5827 | 6424 | Gawade Dakshata Anand | 9 | 10 | 8 | 8 | 8 | 6 |
| 18 | 5828 | 6425 | Ghodke Rohan Rajendra | 7 | 7 | 8 | 8 | 4 | 7 |
| 19 | 5829 | 6426 | Gurav Shraddha Rajshekhar | 7 | 7 | 7 | 5 | 7 | 9 |
| 20 | 5830 | 6427 | Haldankar Bhushan Balkrishna | 6 | 5 | 5 | 4 | 6 | 6 |
| 21 | 5831 | 6428 | Holambe Mandakini Laxman | 6 | 4 | 5 | 6 | 4 | 5 |
| 22 | 5832 | 6429 | Inamdar Shantanu Suhas | 4 | 4 | 4 | 4 | 4 | 4 |
| 23 | 5833 | 6431 | Jadhav Chitransh Vitthal | 9 | 5 | 8 | 9 | 8 | 8 |
| 24 | 5834 | 6433 | Jain Dhanraj Rajendra | 10 | 10 | 9 | 10 | 9 | 10 |
| 25 | 5835 | 6434 | Jain Mahima Suresh | 8 | 9 | 4 | 9 | 5 | 9 |
| 26 | 5836 | 6438 | Jawlekar Aishwarya Ulhas | 8 | 7 | 9 | 7 | 7 | 7 |
| 27 | 5837 | 6439 | Jeure Ganesh Shivanand | 4 | 4 | 8 | 7 | 6 | 7 |
| 28 | 5838 | 6440 | Joshi Akash Sadashiv | 4 | 4 | 5 | 4 | 4 | 5 |
| 29 | 5839 | 6442 | Kadre Omkar Machhindra | 4 | 4 | 4 | 4 | 4 | 5 |
| 30 | 5840 | 6445 | Kamble Charushila Govind | 6 | 5 | 4 | 4 | 4 | 4 |
| 31 | 5841 | 6541 | Omkar Kasturi | 4 | 4 | 4 | 4 | 5 | 5 |
| 32 | 5842 | 6449 | Kawankar Meghana Uday | 8 | 7 | 9 | 7 | 8 | 5 |
| 33 | 5843 | 6450 | Kazi Sameer Dilawar | 5 | 5 | 5 | 4 | 5 | 7 |
| 34 | 5844 | 6451 | Khade Mahesh Bharat | 6 | 5 | 5 | 4 | 4 | 6 |
| 35 | 5845 | 6453 | Khandelwal Aneesh Rajesh | 7 | 7 | 7 | 9 | 9 | 6 |
| 36 | 5846 | 6454 | Khandelwal Priyam Mukeshkum: | 4 | 4 | 5 | 4 | 4 | 4 |
| 37 | 5847 | 6455 | Khenat Omkar Dattatray | 5 | 6 | 7 | 8 | 6 | 5 |
| 38 | 5848 | 6456 | Khude Sanjana Prashant | 8 | 9 | 10 | 9 | 8 | 7 |
| 39 | 5849 | 6458 | Kore Akshay Prakash | 7 | 9 | 6 | 9 | 5 | 7 |
| 40 | 5850 | 6459 | Kuchekar Manasi Chandrakant | 8 | 4 | 6 | 5 | 7 | 5 |
| 41 | 5851 | 6460 | Kulkarni Saurabh Sudhakar | 4 | 4 | 4 | 4 | 6 | 5 |
| 42 | 5852 | 6461 | Kumar Patel | 7 | 4 | 6 | 7 | 7 | 6 |
| 43 | 5853 | 6462 | Kumawat Nuksha Purva | 8 | 7 | 8 | 8 | 9 | 8 |
| 44 | 5854 | 6463 | Kurapati Pooja Laxmikant | 10 | 6 | 8 | 8 | 8 | 8 |
| 45 | 5855 | 6464 | Lagad Akshay Subhash | 10 | 6 | 7 | 7 | 7 | 6 |

| Sr. No. | Seat No. | Roll No. | Name | Syspro 10 Marks | TCS 10 Marks | CN 10 Marks | IP 10 Marks | Java 10 Marks | OOSE 10 Marks |
|---|---|---|---|---|---|---|---|---|---|
| 46 | 5856 | 6465 | Lavate Shruti Chandrasakher | 5 | 5 | 6 | 8 | 5 | 5 |
| 47 | 5857 | 6466 | Lonkar Komal Changdev | 9 | 8 | 7 | 8 | 4 | 7 |
| 48 | 5858 | 6469 | Malhare Shivam Sanjay | 8 | 4 | 6 | 8 | 8 | 6 |
| 49 | 5859 | 6470 | Maragale Vijay Dhondiba | 9 | 4 | 4 | 5 | 5 | 4 |
| 50 | 5860 | 6471 | Memane Prathamesh Hanumant | 4 | 4 | 4 | 5 | 5 | 4 |
| 51 | 5861 | 6474 | More Rushabh Rajendra | 7 | 5 | 8 | 5 | 5 | 6 |
| 52 | 5862 | 6475 | Mp Salam Sahad Shamsudheen | 6 | 4 | 7 | 6 | 8 | 7 |
| 53 | 5863 | 6476 | Mujawar Shoaib Paigambar | 8 | 5 | 8 | 9 | 8 | 6 |
| 54 | 5864 | 6477 | Mulla Ramiz Sajid | 7 | 7 | 10 | 7 | 8 | 7 |
| 55 | 5865 | 6478 | Mundhe Jayesh Govind | 5 | 6 | 8 | 6 | 7 | 4 |
| 56 | 5866 | 6479 | Naik Akshay Nagesh | 6 | 6 | 5 | 7 | 7 | 8 |
| 57 | 5867 | 6481 | Naykawadi Sourabh Arvind | 6 | 6 | 8 | 8 | 7 | 7 |
| 58 | 5868 | 6483 | Nikam Sanket Somnath | 5 | 4 | 7 | 6 | 8 | 5 |
| 59 | 5869 | 6484 | Nimkar Amey Prabhakar | 7 | 4 | 4 | 4 | 5 | 7 |
| 60 | 5870 | 6485 | Oswal Dikshant Gajraj | 10 | 10 | 10 | 8 | 8 | 10 |
| 61 | 5871 | 6487 | Padvekar Chaitanya Santosh | 5 | 4 | 6 | 5 | 4 | 4 |
| 62 | 5872 | 6488 | Pahadiya Pankaj Rakesh | 10 | 10 | 9 | 8 | 8 | 10 |
| 63 | 5873 | 6489 | Pangare Ashutosh Vishwas | 10 | 6 | 7 | 9 | 8 | 9 |
| 64 | 5874 | 6491 | Pasalkar Pratiksha Tukaram | 8 | 8 | 7 | 6 | 8 | 9 |
| 65 | 5875 | 6492 | Pasalkar Shubham Balasaheb | 7 | 4 | 7 | 8 | 7 | 5 |
| 66 | 5876 | 6493 | Pathak Rahul Vijay | 9 | 8 | 10 | 7 | 8 | 8 |
| 67 | 5877 | 6495 | Pawar Sonali Mohan | 4 | 4 | 4 | 5 | 4 | 7 |
| 68 | 5878 | 6496 | Pawar Sourabh Dattatray | 6 | 4 | 4 | 7 | 4 | 4 |
| 69 | 5879 | 6497 | Phadtare Chaitrali Eknath | 8 | 8 | 7 | 7 | 7 | 6 |
| 70 | 5880 | 6500 | Rasane Prajakta Santosh | 7 | 5 | 4 | 4 | 4 | 4 |
| 71 | 5881 | 6503 | Rawale Abhishek Somnath | 6 | 4 | 4 | 5 | 4 | 5 |
| 72 | 5882 | 6504 | Sable Amol Ramdas | 7 | 5 | 5 | 4 | 5 | 6 |
| 73 | 5883 | 6509 | Sawant Arati Jalindar | 9 | 9 | 7 | 9 | 5 | 7 |
| 74 | 5884 | 6510 | Sawant Shivani Sandeep | 9 | 9 | 7 | 8 | 5 | 7 |
| 75 | 5885 | 6512 | Shaikh Musaib Javed | 10 | 5 | 5 | 9 | 9 | 8 |
| 76 | 5886 | 6513 | Shaikh Rahil Rahimuddin | 8 | 6 | 6 | 8 | 7 | 9 |
| 77 | 5887 | 6514 | Shaikh Sahil Sadik | 6 | 6 | 7 | 4 | 8 | 9 |
| 78 | 5888 | 6515 | Shaikh Saqlain Mujim | 6 | 4 | 7 | 5 | 8 | 9 |
| 79 | 5889 | 6516 | Shaikh Saqlain Sabir | 8 | 6 | 8 | 8 | 6 | 7 |
| 80 | 5890 | 6519 | Shinde Maheshwari Manoj | 8 | 6 | 8 | 6 | 8 | 7 |
| 81 | 5891 | 6521 | Shitole Prithviraj Sachin | 6 | 4 | 7 | 4 | 6 | 6 |
| 82 | 5892 | 6522 | Sonali Bharati | 7 | 7 | 6 | 6 | 6 | 7 |
| 83 | 5893 | 6523 | Sonawane Aniket Adinath | 7 | 6 | 9 | 8 | 7 | 6 |
| 84 | 5894 | 6524 | Sonawane Rutuja Laxman | 7 | 8 | 5 | 8 | 8 | 5 |
| 85 | 5895 | 6526 | Suryawanshi Pruthviraj Shahuraj | 7 | 4 | 5 | 4 | 4 | 6 |
| 86 | 5896 | 6527 | Suthar Satyanarayan Shankarlal | 8 | 9 | 10 | 8 | 8 | 5 |
| 87 | 5897 | 6528 | Syed Navied Syed Iqbal | 7 | 4 | 7 | 5 | 7 | 4 |
| 88 | 5898 | 6540 | Thorat Prajakta | 4 | 5 | 6 | 7 | 4 | 6 |
| 89 | 5899 | 6531 | Todkar Raj Vinod | 7 | 4 | 8 | 8 | 7 | 8 |
| 90 | 5900 | 6533 | Vairagar Shweta Ajay | 4 | 4 | 4 | 4 | 4 | 4 |
| 91 | 5901 | 6535 | Vishwakarma Priya Kodulal | 10 | 6 | 5 | 8 | 8 | 7 |
| 92 | 5902 | 6538 | Yadav Ajit Kumar | 5 | 4 | 8 | 4 | 6 | 7 |
| 93 | 5903 | 6401 | Adsul Mayuri Santram | 8 | 10 | 9 | 4 | 9 | 9 |
| 94 | 5904 | 6403 | Bade Aarti Sambhaji | 10 | 10 | 10 | 10 | 9 | 10 |
| 95 | 5905 | 6404 | Badgujar Vaibhav Vinayak | 10 | 10 | 10 | 10 | 10 | 10 |
| 96 | 5906 | 6407 | Chavan Pooja Tanaji | 10 | 9 | 9 | 7 | 8 | 7 |
| 97 | 5907 | 6411 | Dayama Diksha Sanjay | 10 | 6 | 7 | 6 | 9 | 6 |
| 98 | 5908 | 6415 | Deshpande Neeraj Atul | 10 | 10 | 10 | 10 | 10 | 10 |
| 99 | 5909 | 6421 | Gaikwad Deepak Vijay | 7 | 4 | 6 | 6 | 5 | 8 |

| Sr. No. | Seat No. | Roll No. | Name | Syspro 10 Marks | TCS 10 Marks | CN 10 Marks | IP 10 Marks | Java 10 Marks | OOSE 10 Marks |
|---|---|---|---|---|---|---|---|---|---|
| 100 | 5910 | 6423 | Gajare Siddhika Popat | 8 | 8 | 8 | 10 | 9 | 8 |
| 101 | 5911 | 6430 | Jadhav Apoorva Chandrashekhar | 10 | 8 | 10 | 9 | 8 | 9 |
| 102 | 5912 | 6432 | Jagtap Asmita Subhash | 10 | 8 | 10 | 8 | 8 | 8 |
| 103 | 5913 | 6435 | Jain Manali Ashok | 10 | 10 | 10 | 10 | 9 | 10 |
| 104 | 5914 | 6436 | Jain Priyanka Vijay | 10 | 10 | 10 | 10 | 9 | 10 |
| 105 | 5915 | 6437 | Jamadar Afreen Murad | 9 | 8 | 10 | 9 | 9 | 9 |
| 106 | 5916 | 6441 | Joshi Akshada Rajendra | 9 | 10 | 10 | 10 | 10 | 10 |
| 107 | 5917 | 6443 | Kairamkonda Sanket Sadanand | 8 | 5 | 4 | 7 | 8 | 6 |
| 108 | 5918 | 6444 | Kakade Shubham Pradeep | 6 | 4 | 6 | 5 | 7 | 7 |
| 109 | 5919 | 6446 | Karnawat Namrata Deepak | 10 | 9 | 10 | 8 | 9 | 8 |
| 110 | 5920 | 6447 | Kaste Akshay Tukaram | 8 | 6 | 7 | 9 | 8 | 7 |
| 111 | 5921 | 6448 | Kawa Roshni Ramesh | 10 | 9 | 10 | 10 | 10 | 8 |
| 112 | 5922 | 6452 | Khandajkar Komal Sanjay | 9 | 9 | 10 | 10 | 10 | 10 |
| 113 | 5923 | 6457 | Kijabile Vaibhavi Mahesh | 9 | 8 | 10 | 8 | 9 | 10 |
| 114 | 5924 | 6467 | Mackwan Sharon Samuel | 10 | 10 | 8 | 9 | 10 | 8 |
| 115 | 5925 | 6468 | Mahajan Anushka Pravin | 10 | 9 | 10 | 8 | 9 | 10 |
| 116 | 5926 | 6472 | Memon Kamran Anis | 7 | 5 | 10 | 6 | 9 | 8 |
| 117 | 5927 | 6473 | Mohol Rutuja Rajesh | 9 | 10 | 10 | 8 | 8 | 9 |
| 118 | 5928 | 6480 | Naik Pooja Nagesh | 10 | 8 | 8 | 5 | 9 | 8 |
| 119 | 5929 | 6482 | Nikam Arati Sambhaji | 9 | 9 | 8 | 6 | 7 | 8 |
| 120 | 5930 | 6486 | Oswal Khushboo Kiran | 10 | 10 | 10 | 9 | 8 | 10 |
| 121 | 5931 | 6490 | Pardhi Abhishek Kisan | 8 | 4 | 5 | 4 | 7 | 6 |
| 122 | 5932 | 6494 | Pawar Kiran Raju | 5 | 5 | 4 | 5 | 4 | 7 |
| 123 | 5933 | 6498 | Rampurawala Hamza M Quresh | 10 | 8 | 10 | 8 | 8 | 8 |
| 124 | 5934 | 6499 | Ranka Ketan Tejpal | 10 | 10 | 10 | 9 | 8 | 10 |
| 125 | 5935 | 6501 | Raut Ajay Savata | 9 | 8 | 9 | 7 | 9 | 10 |
| 126 | 5936 | 6502 | Raut Harshada Shantaram | 10 | 10 | 10 | 10 | 10 | 10 |
| 127 | 5937 | 6505 | Sahani Ujwala Ramkaran | 10 | 10 | 9 | 8 | 9 | 8 |
| 128 | 5938 | 6506 | Sancheti Samrudhi Tejmal | 10 | 10 | 10 | 8 | 9 | 10 |
| 129 | 5939 | 6507 | Sarda Nupur Rahul | 10 | 10 | 9 | 8 | 9 | 10 |
| 130 | 5940 | 6508 | Savant Rati Rajendra | 10 | 10 | 10 | 9 | 9 | 10 |
| 131 | 5941 | 6511 | Shaikh Maleka Gulamsarwar | 10 | 10 | 10 | 8 | 9 | 9 |
| 132 | 5942 | 6517 | Sharma Shivam Praveshkumar | 6 | 5 | 7 | 8 | 6 | 8 |
| 133 | 5943 | 6518 | Shendkar Aarti Popat | 10 | 8 | 9 | 9 | 9 | 10 |
| 134 | 5944 | 6520 | Shinde Priyanka Sunil | 9 | 4 | 7 | 8 | 8 | 9 |
| 135 | 5945 | 6542 | Soni Mayur | 7 | 5 | 4 | 5 | 8 | 4 |
| 136 | 5946 | 6525 | Soni Nikita Anil | 10 | 10 | 10 | 8 | 9 | 9 |
| 137 | 5947 | 6529 | Tambekar Mayuri Rajendra | 8 | 10 | 10 | 7 | 8 | 7 |
| 138 | 5948 | 6530 | Thakur Siddhesh Nitin | 4 | 7 | 8 | 9 | 6 | 6 |
| 139 | 5949 | 6532 | Tummalpalli Neha Mohan | 10 | 10 | 10 | 9 | 8 | 10 |
| 140 | 5950 | 6534 | Verma Poonam Ramharish | 10 | 10 | 10 | 9 | 8 | 10 |
| 141 | 5951 | 6536 | Walgude Komal Sunil | 9 | 5 | 9 | 8 | 8 | 8 |
| 142 | 5952 | 6537 | Wankhede Rakhi Sanjay | 10 | 10 | 7 | 8 | 8 | 10 |
| 143 | 5953 | 6539 | Yadav Pinky Tilakram | 10 | 10 | 10 | 9 | 9 | 10 |

| | | | | Syspro | TCS | CN | IP | Java | OOSE |
|---|---|---|---|---|---|---|---|---|---|
| Total No. of Students | | | | 143 | 143 | 143 | 143 | 143 | 143 |
| Total no. of Present Students | | | | 143 | 143 | 143 | 143 | 143 | 143 |
| Total no. of Absent Students | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Total no. of Pass Students | | | | 143 | 143 | 143 | 143 | 143 | 143 |
| Total no. of Fail Students | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Percentage. of Present Students | | | | 100% | 100% | 100% | 100% | 100% | 100% |
| Percentage. of Absent Students | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| Percentage. of Pass Students | | | | 100% | 100% | 100% | 100% | 100% | 100% |
| Percentage. of Fail Students | | | | 0% | 0% | 0% | 0% | 0% | 0% |

Class Teacher                 Co-ordinator                 HOD

Dr. Arun R. Patil
PRINCIPAL
Vishwakarma Principal of Arts,
Commerce & Science

**BRACT'S**
# Vishwakarma College of Arts Commerce & Science
Kondhwa (BK),Pune 411048
## FYMSc(CS) Sem II (2018-19)
## ASSIGNMENT SUBMISSION NOTICE

Date : 22/01/2019

All students are hereby inform that Assignment II Submission Schedule is as follows:

| Sr. | Subject | Assignment Questions |
|---|---|---|
| 1 | Digital Image Processing | 1. What is Gamma correction? Explain.<br>2. What do you mean by image restoration and degradation.<br>3. How image can be store in image processing application? and Define image acquisition.<br>4. What is merging technique?<br>5. Explain the fundamental steps in Digital Image processing. |
| 2 | Advanced Operating System | 1. Which user-ids are stored in process table slot and u-area of a process? Explain the system calls used to change the user ids.<br>2. Distinguish between named and unnammed pipes.<br>3. Explain readv( ) and writev( ) system calls. How they are different from read( ) and write( ) system calls?<br>4. Explain context switching with respect to threads in windows operating system.<br>5. Explain mmap with its advantages and disadvantages. |
| 3 | Data Mining and Warehousing | 1. Explain Graph mining in detail.<br>2. Wxplain web mining in detail.<br>3. Explain the process of KDD.<br>4. Write the applications of Association mining.<br>5. Explain classification in detail. |
| 4 | Programming with.NET | 1. Explain features of .NET.<br>2. Describe XML with example.<br>3. Write a note on checkbox control.<br>4. Explain Deployment of web application.<br>5. State and explain characteristics of web services. |
| 5 | Artificial Intelligence | 1. Describe the A* algorithm.<br>2. Write short note on semantic nets.<br>3. Compare scripts and frames using example.<br>4. Explain MINMAX search algorithm.<br>5. Write a short note on production system. |

Note :
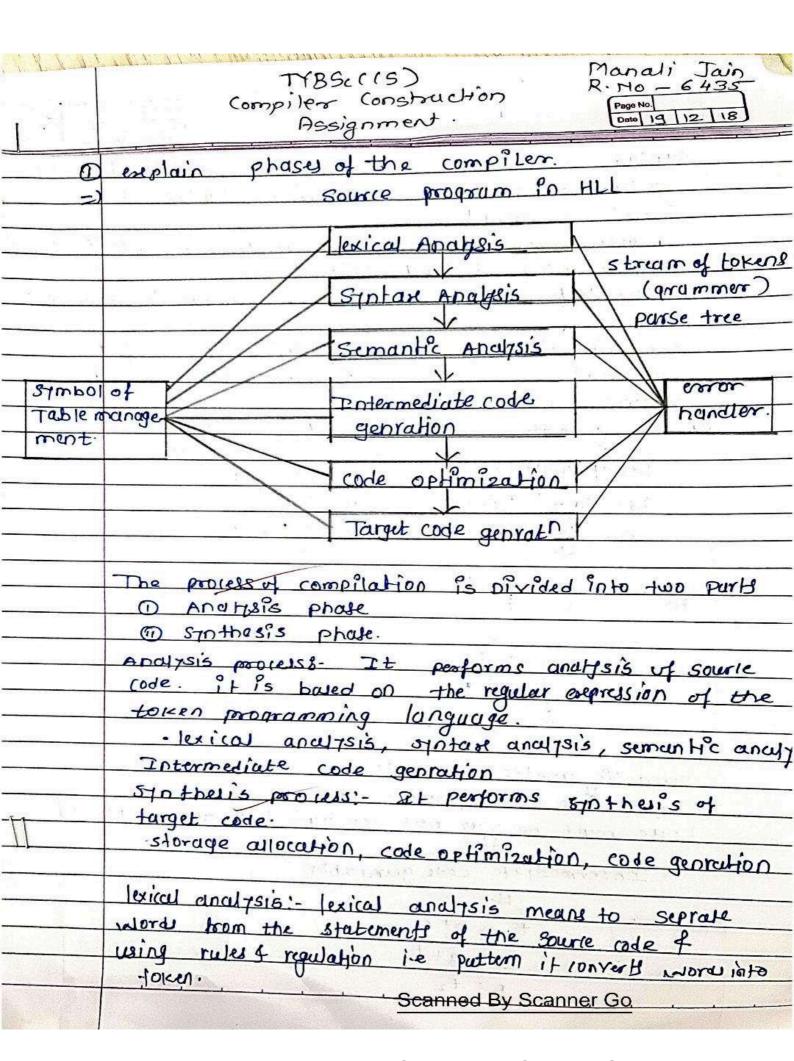
1. Submission date for all subjects- 29/01/2019
2. It is considered for internal assessment.
3. Students should be responsible for submitting the assignments.

Coordinator

NOD

Dr. Arun R. Patil
PRINCIPAL
**Principal**
Vishwakarma College of Arts,
Commerce & Science
Kondhwa(Bk.), Pune-411 048.

TYBSc (IS)
Compiler Construction
Assignment.

Manali Jain
R. No — 6435
Page No.
Date | 19 | 12 | 18

① explain    phases of the    compiler.
=)    Source    program    in HLL

```
                    ┌──────────────────┐
                    │ lexical Analysis │ ──────── stream of tokens
                    └──────────────────┘              (grammer)
                            ↓                         parse tree
                    ┌──────────────────┐
                    │ Syntax Analysis  │
                    └──────────────────┘
                            ↓
                    ┌──────────────────┐
                    │ Semantic Analysis│
                    └──────────────────┘
                            ↓
┌─────────────┐     ┌──────────────────┐     ┌──────────┐
│ Symbol of   │     │ Intermediate code│     │ error    │
│ Table manage│─────│    genration     │─────│ handler. │
│ ment.       │     └──────────────────┘     └──────────┘
└─────────────┘             ↓
                    ┌──────────────────┐
                    │ code optimization│
                    └──────────────────┘
                            ↓
                    ┌──────────────────┐
                    │Target code genratⁿ│
                    └──────────────────┘
```

The process of compilation is Divided into two parts
① Analysis phase
⑪ Synthesis phase.

Analysis process8-   It    performs analysis of source
code.   it is    based on    the regular expression of the
token programming language.
   · lexical analysis, syntax analysis, semantic analy
   Intermediate code genration
Synthesis process:-   It performs synthesis of
target code.
   · storage allocation, code optimization, code genration

lexical analysis:- lexical analysis means to seprate
words from the statements of the source code &
using rules & regulation i.e pattern it converts word into
token.

Syntax analysis 8- Syntax analysis means to check Syntax of the input statement. Syntax of the input statement.

Semantic analysis 8- semantic analysis means to check the meaning of input statement

Intermediate code genration:- It genrate intermediate Code

code optimization :- This code optimize the size of IC. So that speed of object code is increled & it requires minimum space.

eg    $x = a + b + c$                     $re = l(l+d)$     patter must be
         ↓                               known to lexical analyzer
    lexical analyzer
         ↓                               $s => id = E;$
    $id = id + id + id;$                 $E \rightarrow E + T / T$
         ↓                               $T \rightarrow T * F id$
    syntax analyzer                      $F \; 7 \; d$
         ↓



semantic analyzer (logical error)
         ↓
parse tree semantically verified
[LHS must be var not constant fun name, array name]
         ↓
    Intermediate code genration
         ↓
    $t_1 = b * c$
    $t_2 = a + t_1$
    $x = t_2$

# code optimization

↓

$t_1 = b * c$

$x = a + t_1$

↓

target code optimization

↓

```
MULT   R1 R2
ADD    R0, R1
MOVEM  x, R0
```

+ explain passes of compiler

=)  **one pass compilers:-** one pass compiler are easy to implement. Suppose form high storage required entire program scan memory because one phase need information in different model manner. backpatching is use to store symbol address.

| grammatical rules in term of Data structure |
|---|

| Source Code | | One Pass compiler | | Target Code |
|---|---|---|---|---|

| constant table | | litral table | | variable table |
|---|---|---|---|---|

one pass compiler

**Two Pass compiler:-** A Two pass compiler is an compiler which goes through assembly language program twice, & genrate object code.

- second passed is called as pass II or synthesis phase
- backpatching is not required
- execution time required is more than one pass.

```
          +-------------------------+
          | gramatical rule in term of |
          | Data structure          |
          +-------------------------+
                     |
                     v
+--------+  +-------+  +-------------------+  +--------+  +-------+
| Source |->| pass I|->| Intermediate      |->| pass II|->| object|
| code   |  |       |  | Code (i.e Ic)     |  |        |  | Code  |
+--------+  +-------+  +-------------------+  +--------+  +-------+
              |              |                   ^
              v              v                   |
          +---------+  +--------------+          |
          | variable|  | constant/    |          |
          | table   |  | litral table |----------+
          +---------+  +--------------+
```

- **multipass compiler:-** A multipass compiler, is a compiler, which goes through high level language program several times, and genrate object code. First pass, second pass Third pass are called as analysis phase pass I, pass 2. pass 3 respectivly

    The compiler is renuired several forms of intermediak codes which array genrated by each pass.

```
                +---------------------+               +-------------+
                | gramatical rules in |               | Error routine|
                | term of Data structure |            | table       |
                +---------------------+               +-------------+
                     |                   |                  ^
                     v                   v                  |
+-------+  +-------+  +----+  +-------+  +-----+  +-------+  +-----+
| Source|->| pass I|  | IC |  | pass 2|  | ICl |  | pass 3|  | Pco |
| code  |  |       |  +----+  |       |  +-----+  |       |  +-----+
+-------+  +-------+     ^     +-------+     ^     +-------+     |
                        |                   |                  v
                        |                   |              +-------+
                  +-------------------+     |              | pass n|
                  | variable, constant,|----+             +-------+
                  | symbol & litral   |                       |
                  +-------------------+                   +-------+
                                                          | object|
                                                          | code  |
                                                          +-------+
```

Define:

① compiler :- It translate source program into object code

② cross compiler :- a compiler capable of creating executable code for a platform other than one or which the compiler that runlon-windows etc is running called cross compiler

③ Bootstrapping :-
The process by which a simple language is use to translate a more complicated program which is tern many handle more complicated program and so on called as bootstrapping

> ➢ VCACS has conducted various activities for Continuous Internal Evaluation (CIE) like Class Test, Assignment, Seminar etc. Following are the sample of Class Test Time-table, Mark-sheet, Assignment Notice and Assignment Submission.

## Vishwakarma College of Arts, Commerce and Science, Pune
### University Internal Examination - Time Table
#### (First Term-Sept/Oct-2017)

### SYBBA(CA) (SEM-III)

| Sr.No | Date | Day | Subject | Time |
|---|---|---|---|---|
| 1 | 25/9/2017 | Monday | 301- Relation Database Management System | 11:45 am to 12:45 pm |
| | | | 302- Data Structure | 1:15 pm to 2:15 pm |
| 2 | 26/9/2017 | Tuesday | 303- Operating System | 11:45 am to 12:45 pm |
| | | | 304- Business Mathematics | 1:15 pm to 2:15 pm |
| 3 | 27/9/2017 | Wednesday | 305- Sotware Engineering | 11:45 am to 12:45 pm |

Seating Arrangement:

B-Basement

| HALL No : | Roll Nos. | Total |
|---|---|---|
| 110 | 3201 - 3230 | 30 |
| B-104 | 3231 - 3260 | 30 |
| B-103 | 3261-3280 | 20 |

Exam. Coordinator        HOD        Principal

| Roll No. | Name of student | PPL | Ad. Networking | DDC | DAA | NP |
|---|---|---|---|---|---|---|
| 7001 | AGARWAL JYOTI VIJAY | 12 | Ab | 12 | 15 | 19 |
| 7002 | ARJUN KOMAL RAMCHANDRA | AB | 15 | 13 | 14 | 15 |
| 7003 | BADADE VAIJAYANTI RAJENDRA | 14 | 12 | 12 | 15 | 10 |
| 7004 | BAHULIKAR AKSHAY DEVIDAS | 15 | 16 | 15 | 12 | 9 |
| 7005 | BAIG IBRAHIM MURTUZA | 11 | 11 | 16 | 12 | 19 |
| 7006 | BALGURI YAGNASHREE SURESH | 8 | 15 | 13 | 12 | 10 |
| 7007 | BHATKHALKAR ATHARVA | 13 | 6 | 16 | 12 | 14 |
| 7008 | BHOL DINESH DATTATRAY | 17 | 11 | 16 | 15 | 12 |
| 7009 | CHABUKSWAR TANVI NITIN | AB | Ab | 17 | 15 | AB |
| 7010 | CHAVAN KETAN HIRAMAN | 14 | 14 | 10 | 15 | 10 |
| 7011 | CHIDREVAR PALLAVI | 15 | 15 | 10 | 15 | 10 |
| 7012 | CHIKANE PRIYA BHARAT | 16 | 16 | 9 | AB | 12 |
| 7013 | CHINCHKAR AKSHAY ARUN | 11 | 11 | 14 | 15 | 10 |
| 7014 | DANDAWATE CHINMAY SHIVAJI | 7 | 16 | 5 | 15 | 11 |
| 7015 | DEOKUL MADHURA UDAY | 4 | 17 | 12 | 15 | 13 |
| 7016 | DESAI SHRILA PRASANNA | 18 | 12 | 16 | 15 | 12 |
| 7017 | GATAGAT SHUBHAM RASIKLAL | AB | 13 | 14 | 15 | 10 |
| 7018 | HANDE SHRIKANT SANTOSH | 19 | 12 | 15 | 15 | 10 |
| 7019 | HUMBRE ATUL RAJENDRA | 20 | Ab | 11 | AB | 12 |
| 7020 | JADHAV AKASH ASHOK | 14 | 11 | 11 | AB | 12 |
| 7021 | JADHAV SAMUEL DINESH | 16 | 15 | 13 | 15 | 19 |
| 7022 | JADHAV SHIVANI BALU | 11 | 14 | AB | 15 | 16 |
| 7023 | JOSHI BHUSHAN GANGADHAR | 8 | 14 | 15 | 12 | 10 |
| 7024 | KADAM RAJGAURI SHASHIKANT | 9 | 4 | 13 | 12 | 15 |
| 7025 | KAPADNIS SHALAKA SANJEEV | AB | 15 | 11 | 12 | 10 |
| 7026 | KATE ASMITA AVINASH | 14 | 15 | 16 | 12 | 11 |
| 7027 | KATE TULAJEERAM SUBRAO | 14 | 12 | 17 | 12 | 8 |
| 7028 | KHAN RUKSAR AYAZ | 17 | 12 | 11 | 12 | 12 |
| 7029 | KULKARNI HRUSHIKESH | 11 | 11 | 14 | 15 | 15 |
| 7030 | MANDAVGANE PRANITA RAJESH | 8 | 10 | AB | 15 | 10 |
| 7031 | MANJARE PRADNYA VINOD | AB | 15 | 3 | 15 | 9 |
| 7032 | MORE DARSHANA SURESH | 15 | 13 | 12 | 12 | 10 |
| 7033 | MUJAWAR ARSHEEN JABBAR | 14 | 14 | 14 | 12 | 16 |
| 7034 | MUSTAFA MUSTAN KANCHWALA | 11 | 11 | 8 | 14 | 10 |
| 7035 | NANAVARE ADITI BALASAHEB | 7 | 10 | 11 | 16 | 12 |
| 7036 | NEDARPALLY STEVEN ANTHONY | 8 | 9 | 14 | 15 | 10 |
| 7037 | PANSARE PRATIKSHA KAILAS | 9 | 8 | 13 | 15 | 13 |

| Roll No. | Name of student | PPL | Ad. Networking | DDC | DAA | NP |
|---|---|---|---|---|---|---|
| 7038 | PARPATEKAR SILVIA THOMAS | 13 | Ab | 11 | 14 | 20 |
| 7039 | PATIL SIDDHARTH SAMBHAJIRAO | 17 | Ab | 10 | 16 | 10 |
| 7040 | PEREIRA LAZARUS PETER | AB | 14 | AB | 16 | 11 |
| 7041 | PHULPAK ASHWIN SOMANTH | 11 | 14 | 16 | 15 | 14 |
| 7042 | PILLAI SRUTHI SURENDRAN | 15 | 13 | 17 | 15 | 14 |
| 7043 | RAJPUT TILAK SHANKAR | 17 | 17 | 13 | 16 | 15 |
| 7044 | RAMGHARIA SIMRAN KAUR | 11 | 14 | 14 | 16 | 12 |
| 7045 | RAMSHETTY RENUKA BHIMRAO | AB | 5 | 11 | 14 | AB |
| 7046 | SHAH DEEP SHRENIK | 20 | 5 | 8 | 14 | 10 |
| 7047 | SHAIKH AFREEN ILSHAD | 13 | 15 | 16 | 14 | 12 |
| 7048 | SHAIKH ERAM FAROOQUE | AB | Ab | 17 | AB | 10 |
| 7049 | SHAIKH SAADIN KHALID | 12 | 8 | 13 | AB | 10 |
| 7050 | SHAIKH SAJIYA MAHIBOOB | 15 | 9 | AB | 12 | 12 |
| 7051 | SHARMA NIRAJKUMAR | 16 | Ab | 16 | 12 | 11 |
| 7052 | SHETE HARSHADA SHEKHAR | 17 | 13 | 17 | 15 | 14 |
| 7053 | SHINDE SHWETA SHITALKUMAR | AB | 12 | 13 | 15 | 12 |
| 7054 | SHUBHAM KAKADE | 17 | 14 | 13 | 16 | 9 |
| 7055 | SIDDHARTH KHOPADE | 14 | 15 | 15 | 15 | 9 |
| 7056 | SOLANKI MONALI MISHRILAL | 10 | 17 | 11 | 15 | 10 |
| 7057 | SURVASE SANDHYA PRABHAKAR | 15 | 15 | 10 | 15 | 9 |
| 7058 | TAMBOLI RAMEEZ SADIQ | 19 | 11 | 9 | 15 | 16 |
| 7059 | VANNAM HEMANT VIJAY | 17 | 15 | 8 | 15 | 15 |
| 7060 | ZAINAB MAQSUD | AB | 4 | 5 | 15 | 13 |

| | PPL | Ad. Networking | DDC | DAA | NP |
|---|---|---|---|---|---|
| Total No. of Students | 60 | 60 | 60 | 60 | 60 |
| Total no. of Present Students | 50 | 53 | 56 | 55 | 58 |
| Total no. of Absent Students | 10 | 7 | 4 | 5 | 2 |
| Total no. of Pass Students | 47 | 48 | 53 | 55 | 58 |
| Total no. of Fail Students | 3 | 5 | 3 | 0 | 0 |
| Percentage. of Present Students | 83% | 88% | 93% | 92% | 97% |
| Percentage. of Absent Students | 17% | 12% | 7% | 8% | 3% |
| Percentage. of Pass Students | 94% | 91% | 95% | 100% | 100% |
| Percentage. of Fail Students | 6% | 9% | 5% | 0% | 0% |

Class Teacher    Co-ordinator    HOD    Dr. Arun R. Patil
PR Principal
Vishwakarma College of Arts,
Commerce & Science
Kondhwa(Bk.), Pune-411 048.

Date : 3/08/2017

All students are hereby inform that Assignment I Submission Schedule is as follows:

| Sr. | Subject | Assignment Questions |
|---|---|---|
| 1 | PPL | 1. Explain the layout of the runtime stack.<br>2. What is multiway assignment? Give its advantage.<br>3. Explain why ordering within an expression is important.<br>4. Explain scope rules and binding rules with suitable example.<br>5. Write a prolog program to find factorial of a number |
| 2 | Advanced Networking | 1. Explain the steps of complete video streaming process.<br>2. Explain different security principles.<br>3. Explain four kinds of digital certificates.<br>4. Explain digital signature concept using public key cryptography<br>5. Draw and explain RIP message format. |
| 3 | Distributed Database Concepts | 1. Explain features of distributed Vs centralized database.<br>2. Describe important efficiency aspects of transaction management.<br>3. Explain the layers of query processing.<br>4. Write a note on state transition in 3PC protocol.<br>5. Illustrate the four reasons that causes the failure of DBMS. |
| 4 | Design & Analysis of Algorithms | 1. What is 8 queen's problem? & explain N-Queen algorithm.<br>2. Find an optimal binary merge pattern for 10 files whose lengths are 15, 2, 12, 35, 28, 11, 23, 5, 20, 3.<br>3. Explain Strassen's matrix multiplication. Derive the time complexity required by Strassen's matrix multiplication.<br>4. Write an algorithm for quick sort.<br>5. Find the minimum cost of computing product of chain of matrices having dimension $15 \times 5, 5 \times 10, 10 \times 20, 20 \times 25$, using dynamic programming. |

Note :

1. Submission date for all subjects- 11/08/2017
2. It is considered for internal assessment.
3. Students should be responsible for submitting the assignments.

Coordinator

HOD

Dr. Arun P. Patil
**Principal**
Vishwakarma College of Arts,
Commerce & Science
Kondhwa(Bk.), Pune-411 048.

## Assignment No: 1

**Q1.** List any two Armstrong's axioms

→ Armstrong's axioms are as follows:

**i. Reflexivity Rule:** It states that a set of attributes always determines itself or any of its subsets. It generates dependencies that are always true, such dependencies are called trivial.

Suppose that $X \supseteq Y$ and that two tuples $t_1$ and $t_2$ exist in same relation instance $r$ of R such that $t_1[X] = t_2[X]$ then $t_1[Y] = t_2[Y]$ because $X \supseteq Y$ is hence, $X \to Y$ must hold in $r$.

**ii. Transistivity Rule:** According to this rule functional dependencies are transitive. Assume that $X \to Y$ and $Y \to Z$ both hold in a relation $r$. Then for any two types $t_1$ and $t_2$ in $r$ such that $t_1[X] = t_2[X]$, and $t_1[Y] = t_2[Y]$ hence we must also have $t_1[Z] = t_2[Z]$ hence, $X \to Z$ must hold in $r$.

**Q2.** Explain desirable properties of decomposition

→ There are two desirable properties of 'decomposition' numely, the lossless join property and the dependency preservation property which are both used by the these design algorithms to achieve desirable decompositions.

**i.** losslees (Non-additive) join property:

It ensures that no spurious tuples are generated when a Natural Join operation D is set of functional dependencies in $F^+$, the closure of F, such that all their left & right hand side attributes are in R, we say that a decomposition $D = \{R_1, R_2, \ldots R_m\}$ of R is dependency preserving w.r.t F if union of projection of F on each $R_i$ in D is equivalent to F; that is $(F_1 \cup F_2 \ldots \cup F_n)^+ = F^+$

For eg: $R(A, B, C, D)$ and $F = \{A \to B, A \to C, C \to D\}$
R in decomposed into
$R_1 = (A, B, C)$ with the FD's
$F_1 = \{A \to B, A \to C\}$
$R_2 = (C, D)$ with the FD's
$F_2 = \{C \to D\}$
$F' = F_1 \cup F_2 = \{A \to B, A \to C, C \to D\}$
Hence, $F'^+ = F^+$
Hence, the decomposition is dependency preserving and also loss less.

Q3. Write Purpose and Syntax of Raise statement.

→ Raise statement

The Raise statements raise errors and exceptions during a PL/pg sql function's execution PL/pg sql provides a error logging facility, the elog mechanism. A Raise is also given level of error it should raise and string error message it should send to postgresql. The percent (%) sign is

used as place holder for variables that are inserted into string.
syntax:

Raise level "message string" [, identifier[ ] )

Error level in Raised statements

|   | value | Explanation |
|---|---|---|
| 1. | Debug | send specified text as debug message to log. |
| 2. | Notice | send specified text as a notice. |
| 3. | Exception | send specified text as an error it also causes current transaction to be aborted. |

Q4. Explain Referential integrity?

→ The referential integrity constraint is specified between two relations and is used to maintain the consistency among tuples in two relations Informally. referential integrity constraint states that a tuple in one relation that refers to another relation must refer to an existing tuple in that relation referest at integrity constraints typically arise from relationships among entities represented by relation schemas.

For eg:

| Employee: | Eid | Ename | salary | Dno |
|---|---|---|---|---|
| | | John | 30000 | 5 |
| | | | 5000 | 4 |

Department

| Dname | Dno |
|--------|-----|
| Research | 5 |
| Admin | 4 |

(f) Here, the attribute "Dno" of employee gives department number for which each employee works, hence it's values is ever Employee tuple must match the Dno value of some tuple in Department table.

Q5. Explain concateration of string in pl/pl/sq

→ Concatenation is the process of combining two (or more) strings together to produce another string it can only be used with character strings string are concatenated by placing the operation (||) between two or more character strings be combined. This can be used to combi two strings together to form a combine compound word and multipl strings together to form complex character string. combination concentenat can only be use in situation where your function requires a string valu i.e must be returned or when you are assigning a new value to a strin

For eg:

create or replace function compound string word (text, text) return text as

```
declare
-- Define aliases for function argument
word1 alis for $1;
word2 alis for $2;
begin
-- Return the resulting joined words
return word1 || word2;
end;
language 'plpgsql';
```

When the word break of fast one passed as arguements to compound word () returns be break fast as the concatenated string

```
Select compound word ('break', 'fast');
compound word
-----------------
breakfast;
(1 Row)
```

**Q6.** Consider the following relation schema

student (sno, sname)
teacher (tno, tname, qualification)

student & teacher are related with M:M relationship, write a cursor to list details of students who have taken RDBMS as a subject.

→ 
```
Create table student (sno int primary key
sname char(20) not null );
```

```sql
Create table teacher (tno int primary key,
sname char(20) not null, qualification
char(15);

Create table st ( sno int references
student, tno int references teacher,
subject char(10));
```

Student & teacher is many-to-many
relationship. ∴ there will be a third table,
student-teacher (sn, tno, subject)

```sql
declare
    cursor student_teacher (subject) is
    select sno, sname from student
    where student.sno = st.sno & subject=
    'RDBMS';
        m-sno student.sno%type;
        m-sname student.sname%type;
    begin
        open student teacher ('subject');
        loop
    Fetch student_teacher into m.so, m.sname
    dbms-output.put line (m.sno || " " || m-snam
    exist when student teacher%. notnull=found;
        end loop;
        close student teacher;
    end;
```