POORNIMA
COLLEGE OF ENGINEERING

**Approved by AICTE**
**Affiliated to Rajasthan Technical University, Kota**
**Recognized by UGC under Section 2(f) of the UGC Act, 1956**

# Curriculum Delivery Plans (CDPs)
# Department of Advance Computing
# (Odd Semester 2022-23)

**ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)**
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POORNIMA
COLLEGE OF ENGINEERING

# DEPARTMENT OF ADVANCE COMPUTING

## CURRICULUM DELIVERY PLAN

## OUTLINE-ODD SEM-2022-23

**ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)**

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# 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 (CIA)

PCE is affiliated to RTU, Kota and follows the planned and prescribed curriculum of University. The Internal Quality Assurance Cell (IQAC) of PCE takes the responsibility of monitoring the effective delivery of the curriculum through a well-planned and documented process. To ensure effective curriculum delivery, a Curriculum Delivery Plan (CDP) is prepared by all PAC's of the respective departments. A CDP includes detailed planning for preparation, verification, execution and adherence to all documents related to academic delivery of all courses. As per the directions received from IQAC, the Examination cell plans for the Continuous Internal Assessment. Examination cell then circulate CIA planning to the PAC. Examination cell sends all the CIE Data to Director's Office for the final approval before its submission to RTU. Detail outlines are as follows.

1. Director Office, PCE receives the curriculum from RTU, Kota through university website.
2. IQAC prepares institute academic calendar aligned with RTU academic calendar considering input received in last GC meeting and other stakeholders. IQAC forwards the Institute Academic Calendar to PAC (Program Assessment Committee) for identifying curriculum gaps and examination cell for CIE. PACs then prepares CDPs after consolidating the course specific planning received from the respective faculty members.
3. A CDP includes activities for gap abridgement which are proposed to be carried out by the faculty members.
4. IQAC also instructs PACs to prepare the department activity calendar. PACs receives approval of department activity calendars and CDPs from DABs before its final approval from IQAC.
5. IQAC also reviews the CDPs approved by DABs and gives suggestions/ approvals periodically. All the activities (SPL, Industrial visit, workshop etc.) planned are taken into consideration for the Department activity calendar after the approval from DABs.
6. Subject wise Course files are prepared by respective faculty, comprising of Syllabus, ABC analysis, Blown-Up, Deployment, Lecture notes, Zero Lecture, Tutorial and Assignment sheets, COs Statements, and Mapping with POs and PSOs.
7. Faculty frequently use ICT tools for more effective content delivery using PPTs, video lectures etc.
8. Student attendance is monitored by tutors and chief proctor office with help of SHARP ERP software. Attendance defaulters are regularly counseled through their tutors for improving their attendance.
9. Institute also conducts Annual Internal Academic Audit for the effectiveness of teaching-learning methodologies and the necessary actions are taken as suggested by the audit team.
10. Conferences, seminars, webinars, workshops, expert lectures, STTPs, and FDPs are organized throughout the year on the recent advances in the field of engineering.
11. Continuous Internal Assessment process includes Midterm exam, Tutorials, Assignments, Quizzes, presentation, Class Test, viva-voce etc.
12. As per the RTU examination scheme, mid semester examinations are conducted centrally by examination cell as per the planning & academic calendar and other assessments are conducted at departmental level.
13. All the evaluations are carried out by the faculty members which include COs-POs attainment, Gap identification & action taken for the fulfillment of gap.
14. Student feedback and attainment of COs-POs are reviewed by the PAC for any revision in planning & Delivery.
15. End term semester examinations are conducted by the RTU, Kota.

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# 2 Vision & Mission Statements

## 2.1 Vision &Mission Statements of the Institute

**Vision of Institution**

To create knowledge based society with scientific temper, team spirit and dignity of labor to face the global competitive challenges

**Mission of Institution**

To evolve and develop skill based systems for effective delivery of knowledge so as to equip young professionals with dedication & commitment to excellence in all spheres of life

## 2.2 Vision &Mission Statements of the Programme B. Tech. (Computer Engineering)

### 2.2.1 Vision of Department

Evolve as a centre of excellence with wider recognition and to adapt the rapid innovation in Computer Engineering.

### 2.2.2 Mission of Department

- To provide a learning-centered environment that will enable students and faculty members to achieve their goals empowering them to compete globally for the most desirable careers in academia and industry.
- To contribute significantly to the research and the discovery of new arenas of knowledge and methods in the rapid developing field of Computer Engineering.
- To support society through participation and transfer of advanced technology from one sector to another.

### 2.2.3 PEO of the Department

**Program Educational Objectives (PEOs**

**PEO1**: Graduates will work productively as skillful engineers playing the leading roles in multifaceted teams

**PEO2:** Graduates will identify the solutions for challenging issues inspiring the upcoming generations leading them towards innovative, creative, and sophisticated technologies.

**PEO3:** Graduates will implement their pioneering ideas practically to create products and the feasible solutions of research oriented problems

### 2.2.4 Program Specific Outcome (PSOs)

**PSO1:** The ability to understand and apply knowledge of mathematics, system analysis & design, Data Modeling, Cloud Technology, and latest tools to develop computer based solution

in the areas of system software, Multimedia, Web Applications, Big data analytics, IOT, Business Intelligence and Networking systems.

**PSO2**: The ability to understand the evolutionary changes in computing, apply standards and ethical practices in project development using latest tools & Technologies to solve societal problems and meet the challenges of the future.

**PSO3:** The ability to employ modern computing tools and platforms to be an entrepreneur, lifelong learning and higher studies.

## 2.3 Program Outcomes (PO)

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

# 3 Department Academic & Administrative Bodies - Structure & Functions

## 3.1 Department Advisory Board (DAB)

### 3.1.1 Primary Objective

Department Advisory Board (DAB) of Department of Computer Engineering, PCE, Jaipur is formed to provide necessary suggestions for developing a structured approach for continuous improvement in curriculum delivery, planning and incorporation of Curricular, Extra and Co-Curricular activities needed to abridge the pre-identified curriculum gaps.

### 3.1.2 Roles & Responsibilities

1. Suggest improvement in academic plans and recommend standard practices/system for attainment of Program Educational Objectives, Program Outcomes, Program Specific Outcomes and Course Outcomes.
2. Provide guidelines for industry-institute interactions to bridge up curriculum/industry gap and suggest quality improvement initiatives to enhance employability.
3. Develop a structured Curriculum Delivery Plan, Department Academic Calendar and seek approval for them from Internal Quality Assurance Cell.
4. Incorporate suggestions received from Program Assessment Committee (PAC) by including proposed activities for bridging curricular gaps identified.
5. To identify and suggest thrust areas to conduct various activities (final year projects, training courses and additional experiments to meet PEOs, and propose necessary action plan for skill development of students, required for entrepreneurship development and quality improvement.

### 3.1.3 Department-Wise Composition

| S. No. | Category | Nominated by | Name of Members | Address |
|---|---|---|---|---|
| 1 | Chairman, DAB-CE | Chairman, IQAC | DR. MITHLESH ARYA | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 2 | Member Secretary | Chairman, DAB | MS.REENA SHARMA | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 3 | Faculty representative-1 | Chairman, DAB | MR.GAURAV SHARMA | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 4 | Faculty representative-2 | Chairman, DAB | MS.ARCHANA BHARDWAJ | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |

| | | | | |
|---|---|---|---|---|
| 5 | Faculty representative-3 | Chairman, DAB | DR.DIVYA JAIN | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 6 | Faculty representative-4 | Chairman, DAB | MS. NEETU | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 7 | Faculty representative-5 | Chairman, DAB | DR.INDRAJIT GHOSHAL | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 8 | Faculty representative-6 | Chairman, DAB-CE | MS.DEEPIKA AGARWAL | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 9 | Special Invitee | Chairman, DAB | Dr. REKHA NAIR | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 10 | Alumni Representative-1 | Chairman, DAB | | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 11 | Alumni Representative-2 | Chairman, DAB | | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 12 | Student Representative | Chairman, DAB | | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 13 | Industry Representative | Chairman, DAB | | |
| 14 | Parents Representative-1 | Chairman, DAB | Mr. ANURAG KULSHRESTHA | B-14(A),SHANTI PATH,AMBER PATH AJMER ROAD JAIPUR 302006 RAJASTHAN |
| 15 | Parents Representative-2 | Chairman, DAB | Mr. ANIL MATHUR | 21, PUSHPANJALI COLONY MAHESH NAGAR, JAIPUR, JAIPUR 302015 RAJASTHAN |

### 3.1.4 Meeting Frequency & Objectives

| Meeting No. | Meeting Code | Meeting Month-Week | Meeting Objective |
|---|---|---|---|
| 1. | DAB-1 | July | ● Consideration of gaps and proposed activities by PAC last |

| | | | |
|---|---|---|---|
| | | First Week | meeting to be implemented in DAC and CDP.<br>● Prepares final draft of CDP and DAC to be proposed in upcoming IQAC meeting |
| 2. | DAB-2 | September Second Week | ● Approval / Suggestions of proposals from last PAC Meeting.<br>● Revision of DAB Drafts for being proposed in upcoming GC |
| 3 | DAB-3 | December First Week | ● Draft preparation for DAC and CDP for upcoming semester after considering inputs from PAC.<br>● Review Semester closure draft from PAC. |

## 3.2 Program Assessment Committee

### 3.2.1 Primary Objective

The primary objective of Program Assessment Committee (PAC) is to identify bridge and assess the gaps in Program's Curriculum received from University through attainment calculation.

### 3.2.2 Roles & Responsibilities

**1.** Identify gaps in curriculum laid down by University and propose activities for bridging identified gaps.

**2.** Implement academic plans and standard practices/system for attainment of Program Educational objectives, Program Outcomes, Program Specific Outcomes and Course Outcomes.

**3.** Regular Monitoring of curriculum gap abridgement and course deployment practices through pre-defined methods.

**4.** Execute Industry-Institute Interactions to enhance the employability thereby meeting the industry standards and requirements.

**5.** Implement Curriculum Delivery Plan & Department Academic Calendar.

### 3.2.3 Department-Wise Composition

| S. No. | Category | Nominated by | Name of Members | Address |
|---|---|---|---|---|
| 1 | Chairman, PAC-CE | Chairman, IQAC / Head of Institution | DR. MITHLESH ARYA | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 2 | Member Secretary | Chairman, PAC-CE | MS.REENA SHARMA | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 3 | Faculty representative-1 | Chairman, PAC-CE | MR.GAURAV SHARMA | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 4 | Faculty representative-2 | Chairman, PAC-CE | MS.ARCHANA BHARDWAJ | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 5 | Faculty representative-3 | Chairman, PAC-CE | DR.DIVYA JAIN | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 6 | Faculty | Chairman, PAC-CE | MS. NEETU | Poornima College of |

| | | | | |
|---|---|---|---|---|
| | representative-4 | | | Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 7 | Faculty representative-5 | Chairman, PAC-CE | DR.INDRAJIT GHOSHAL | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |
| 8 | Faculty representative-6 | Chairman, PAC-CE | MS.DEEPIKA AGARWAL | Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur |

### 3.2.4 Meeting Frequency & Objectives

| Meeting No. | Meeting Code | Meeting Month-Week | Meeting Objective |
|---|---|---|---|
| 1. | PAC-1 | July Last Week | ● Execution of Academic, Extra and Co-Curricular activities<br>● Regular assessment of Academic, Extra and Co-Curricular activities<br>● Regular calculation of attainments<br>● Revision of Academics gaps<br>● Prepared regular report of program for all assessment, attainment & gaps |
| 2. | PAC-2 | August Last Week | ● Execution of Academic, Extra and Co-Curricular activities<br>● Regular assessment of Academic, Extra and Co-Curricular activities<br>● Regular calculation of attainments<br>● Revision of Academics gaps<br>● Prepared regular report of program for all assessment, attainment & gaps |
| 3 | PAC-3 | September Last Week | ● Execution of Academic, Extra and Co-Curricular activities<br>● Regular assessment of Academic, Extra and Co-Curricular activities<br>● Regular calculation of attainments<br>● Revision of academics gaps as previous attainment<br>● Assessment of activities required for being proposed in upcoming GC<br>● Submit report to Governing Council about previous semester & planning of next semester. |
| 4. | PAC-4 | October Last Week | ● Inclusion of suggestions for revising gaps<br>● Execution of Academic, Extra and Co-Curricular activities according to suggestions in GC<br>● Regular assessment of Academic, Extra and Co-Curricular activities<br>● Regular calculation of attainments<br>● Revision of academics gaps as previous attainment |
| 5. | PAC-5 | November Third Week | ● Revision of academics gaps as previous attainment<br>● Regular assessment of Academic, Extra and Co-Curricular activities<br>● Identification and proposal of gaps and activities to be considered by DAB to prepare Department Academic Calendar and CDP for upcoming semester.<br>● Semester closure report draft to be prepared<br>● Elective proposals/CBCS |
| 6. | PAC-6 | December Third Week | ● Incorporation of suggestions from IQAC and DAB meetings in execution of Semester activities<br>● Execution and assessment of Academic, Extra and Co-Curricular activities<br>● Revision of academics gaps as previous attainment<br>● Calculation of attainments |

# 4 List of Faculty Members& Technical Staff

| S.No | Name of the Faculty Member | College Emp. ID | Designation | Email Address | MobilePhone |
|---|---|---|---|---|---|
| 1 | DR. MAHESH BUNDELE | 2820 | PRINCIPAL | maheshbundele@poornima.org | 9828999440 |
| 2 | Ms. NIDHI GUPTA | 1176 | ASST PROFESSOR | nidhigupta@poornima,org | 9057740237 |
| 3 | Mr. DEEPAK BABERWAL | 2833 | ASST PROFESSOR | deepakbaberwal@poornima.org | 9785079541 |
| 4 | Ms. DEEPIKA AGRAWAL | 3682 | ASST PROFESSOR | deepika.agrawal@poornima.org | 7665692655 |
| 5 | MS. REENA SHARMA | 6450 | ASST PROFESSOR | shreena275@gmail.com | 8233912546 |
| 6 | Mr. BHAGIRATH CHOUHAN | 6880 | ASST PROFESSOR | bhagirath.singh@poornima.org | 9829275869 |
| 7 | Dr. MITHLESH ARYA | 6917 | PROFESSOR | mithlesharya@gmail.com | 9413942204 |
| 8 | Mr. GAURAV SHARMA | 6961 | ASST PROFESSOR | gaurav.sharma@poornima.org | 9413107600 |
| 9 | Mrs. ARCHANA BHARDWAJ | 7127 | ASST PROFESSOR | archana.bhardwaj@poornima.org | 9460018038 |
| 10 | DR. DIVYA JAIN | 7256 | ASSOCIATE PROFESSOR | divya.jain@poornima.org | 9521753583 |
| 11 | MS. NEETU | 7272 | ASST PROFESSOR | neetu@poornima.org | 9680629838 |

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# 5 Institute Academic Calendar

| JULY 2022 | | | | | | |
|---|---|---|---|---|---|---|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| 31 | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

| AUGUST 2022 | | | | | | |
|---|---|---|---|---|---|---|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

| SEPTEMBER 2022 | | | | | | |
|---|---|---|---|---|---|---|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

| OCTOBER 2022 | | | | | | |
|---|---|---|---|---|---|---|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| 30 | 31 | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |

| NOVEMBER 2022 | | | | | | |
|---|---|---|---|---|---|---|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

| DECEMBER 2022 | | | | | | |
|---|---|---|---|---|---|---|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

# POORNIMA
## COLLEGE OF ENGINEERING

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NBA

# ACADEMIC CALENDAR 2022-23*#

## ODD SEMESTER

### JULY 2022

RTU THEORY EXAMINATION OF FIRST YEAR [EVEN SEM 2021-22]
Practical Training [After II, IV, VI Sem.]

### AUGUST 2022

| | |
|---|---|
| Tuesday 16 | Commencement of Classes-Odd Semesters B.Tech III Sem. |
| Wednesday 17 | Commencement of Classes-Odd Semesters B.Tech VII Sem. |
| Monday 15 | Celebration of Independence Day |
| Tuesday 16 to Thursday 18 | Orientation programme-B.Tech. III Sem. |
| Wednesday17 to Saturday 20 | Orientation programme-B.Tech. VII Sem. |

### SEPTEMBER 2022

RTU THEORY EXAMINATION OF SECOND YEAR [EVEN SEM 2021-22]

| | |
|---|---|
| Monday 05 | Faculty Felicitation Program, Celebration of Teachers' Day & activities under WISE |
| Thursday 15 | Engineers' Day |
| Monday 19 | Commencement of Classes-Odd Semesters V Sem. |
| Monday 19 to Wednesday 21 | Orientation programme-B. Tech. V Sem. |
| Monday 26 to Friday 30 | First Mid Term Theory & Practical Exam for B.Tech VII Sem |

### OCTOBER 2022

| | |
|---|---|
| Sunday 02 | Annual Day 'KALANIDHI' & Prize distribution ceremony |
| Thursday 06 | Manthan- Inter-college Debate Competition |
| Monday 10 to Saturday 15 | First Mid Term Theory & Practical Exam for B.Tech III Sem |
| Monday 10 to Saturday 29 | Orientation programme-B. Tech. I Sem. |
| Monday 31 | Commencement of Classes-Odd Semesters I Sem. |

### NOVEMBER 2022

| | |
|---|---|
| Tuesday 01 | Blood Donation Camp |
| Monday 07 to Saturday 12 | First Mid Term Theory & Practical Exam for B.Tech V Sem |
| Monday 28 | Last Teaching Day for B.Tech VII Sem |
| Tuesday 29 to Saturday 03 | Second Mid-TermTheory & Practical Exam for B.Tech VII Sem |

### DECEMBER 2022

| | |
|---|---|
| Wednesday 07 | End-Term Theory Exams for B.Tech VII Sem |
| Monday 12 | End-Term Practical Exams for B.Tech VII Sem |
| Monday 12 to Saturday 17 | First Mid Term Theory & Practical Exam for B.Tech I Sem |
| Saturday 17 | Last Teaching Day for B.Tech III Sem |
| Monday 19 to Saturday 24 | Second Mid-TermTheory & Practical Exam for B.Tech III Sem |
| Friday 30 | Last Teaching Day for B.Tech V Sem |

### JANUARY 2023

| | |
|---|---|
| Monday 02 to Saturday 07 | Second Mid-TermTheory & Practical Exam for B.Tech V Sem |
| Tuesday 03 | End-Term Practical Exams for B.Tech III Sem |
| Monday 09 | End-Term Practical Exams for B.Tech V Sem |
| Tuesday 17 | End-Term Theory Exams for B.Tech III Sem |
| Wednesday 18 | End-Term Theory Exams for B.Tech V Sem |

### FEBRUARY 2023

| | |
|---|---|
| Thursday, 09 | Last Teaching Day for B.Tech I Sem |
| Friday 10 to Friday 17 | Second Mid Term Theory & Practical Exam for B.Tech I Sem |
| Monday 20 | End-Term Practical Exams for B.Tech I Sem |
| Saturday 11 March | End-Term Theory Exams for B.Tech I Sem |

**HOLIDAYS IN ODD SEMESTER**

| | |
|---|---|
| Bakrid / Eid ul-Adha" | Sunday, July 10, 2022 |
| Raksha Bandhan | Thursday, August 11, 2022 |
| Shri Krishna Janmashtami | Friday, August 19, 2022 |
| Vijay Dashmi | Wednesday, October 5, 2022 |
| Diwali Break | Saturday, Oct. 22 to Wednesday, Oct. 26 |
| Guru Nanak Jayanti | Tuesday, November 8, 2022 |
| Christmas | Sunday, December 25, 2022 |
| Winter Break | As per RTU Examination Schedule |
| New Year Day | December 31, 2022 to January 01, 2023 |

*Subject to revision as per RTU notifications

#For all Engineering Faculty and Students of PCE

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# 6 Department Activity Calendar

| (A) Academic Processes | | | | | |
|---|---|---|---|---|---|
| **S. No.** | **Activity/ Process** | **B.Tech. I Sem.** | **B.Tech. III Sem.** | **B.Tech. V Sem.** | **B.Tech. VII Sem.** |
| 1 | Date of Registration & start of regular classes for students | Monday, October 31, 22 | Tuesday, August 16, 22 | Monday, September 19, 22 | Wednesday, August 17, 22 |
| 2 | Orientation programme | Monday, October 31, 22 to Saturday, October 29, 22 | Tuesday, August 16, 22 to Thursday August18, 22 | Monday, September 19, 22 to Wednesday, September 21, 22 | Wednesday, August 17, 22 to Saturday, August 20, 22 |
| 3 | Date of submission of question papers by faculty members to secrecy for 1st Mid-term | Tuesday, December 06, 22 | Saturday, October 01, 22 | Tuesday, November 01, 22 | Friday, September 16, 22 |
| 4 | I Mid Term Theory & Practical Exam | Monday, December 12, 22 to Saturday, December 17, 22 | Monday, October 10, 22 to Saturday, October 15, 22 | Monday, November 7, 22 to Saturday, November 12, 22 | Monday, September 26, 22 to Friday, October 30, 22 |
| 5 | Showing evaluated answer books of 1st Mid-term exam to students in respective classes | Upto Wednesday, December 21, 22 | Upto Saturday, Octomber 22, 22 | Upto Monday, November 21, 2022 | Upto Saturday, November 5, 2022 |
| 6 | Last date of submission of Evaluated Answer Books and Mark of First Mid-term Theory & Practical exam to Exam and Secrecy Cell | Upto Monday, December 26, 22 | Upto Saturday, November 12, 2022 | Upto Saturday, November 26, 2022 | Upto Monday, November 7, 2022 |
| 7 | Date of submission of question papers by faculty members to secrecy for 2nd Mid-term | Friday, December 09, 22 | Thursday, November 17, 2022 | Wednesday, November 30, 2022 | Monday, October 17, 2022 |
| 8 | Revision classes | To be declared later according to RTU Exam Schedule | | | |
| 9 | Last Teaching Day | Monday, January 09, 2023 | Saturday, December 17, 22 | Friday, December 30, 2022 | Monday, November 28, 2022 |
| 10 | 2nd Mid-term theory & Practical Exams | Friday, February 10, 2023 to Friday 17, 2023 | Monday -Saturday, Decmber 19-24 , 22 | Monday-Saturday, January 02-07, 2023 | Tuesday -Saturday, November 29-December 03, 2022 |
| 11 | End-Term Practical Exams | Monday, February 20, 2023 | Tuesday, January 03, 23 | Wednesday, January 18, 2023 | Monday, December 12, 2022 |



| | | | | | |
|---|---|---|---|---|---|
| 12 | Alumni Session | Wednesday, November 23, 2022 | | | |
| 13 | Teachers Day Celebration | Monday, September 05, 2022 | | | |
| 14 | Celebration of Vishwakarma Jayanti | Saturday, September 17, 2022 | | | |
| 15 | Industrial Visit at Universal Autofoun | Wednesday, September 28, 2022 | | | |
| 16 | Celebration of Engineers Day | Thursday, September 15, 2022 | | | |
| 17 | Toyota Hybrid Awareness Drive | Wednesday, September 28, 2022 | | | |
| 18 | Celebration of Vishwakarma Jayanti | Saturday, September 17, 2022 | | | |
| 19 | Teachers Day Celebration | Monday, September 05, 2022 | | | |
| 20 | Workshop on Ethical Hacking | Thursday, September 15, 2022 | | | |
| 21 | Hands-on Session on Python | Wednesday, September 21, 2022 | | | |
| 22 | Awareness session on ACM | Tuesday,October 18, 2022 | | | |
| 23 | Expert Lecture on Artifical Intelligence and Its Application | Wednesday, November 2,2022 | | | |
| 24 | Expert Lecture on NP Completeness & | Thursday, December 01,2022 | | | |
| 25 | Expert Lecture on Future of cyber | Monday, December 05,2022 | | | |
| 26 | Expert Lecture on Ethical Hacking and | Monday, December 05,2022 | | | |
| 27 | A Vision towards Entrepreneurship and | Friday, December 16,2022 | | | |
| 28 | Expert Lecture on Skills Development in | Wednesday, December 21,2022 | | | |
| 29 | | | | | |
| | | (C) Holidays | | | |
| 30 | Bakrid / Eid ul-Adha" | Sunday, July 10, 2022 | | | |
| 31 | Raksha Bandhan | Thursday, August 11, 2022 | | | |
| 32 | Shri Krishna Janmashtami | Friday, August 19, 2022 | | | |
| 33 | Vijay Dashmi | Wednesday, October 05, 2022 | | | |
| 34 | Diwali Break | Saturday, October 22 -26, 2022 | | | |
| 35 | Guru Nanak Jayanti | Tuesday, November 08, 2022 | | | |
| 36 | Christmas | Sunday, December 25, 2022 | | | |
| 37 | Winter Break | As per RTU examination schedule | | | |

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# 7 Teaching Scheme

## 7.1 RTU Teaching Scheme

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

**Teaching & Examination Scheme**
**B.Tech. : Computer Science and Design**
**2nd Year - III Semester**

| SN | Category | Course Code | Course Title | Contact hrs/week L | T | P | Marks Exm Hrs | IA | ETE | Total | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **THEORY** | | | | | | | | | | | |
| 1 | BSC | 3CSD2-01 | Advanced Engineering Mathematics | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 2 | HSMC | 3CSD1-02/ 3CSD1-03 | Technical Communication/ Managerial Economics and Financial Accounting | 2 | 0 | 0 | 3 | 30 | 70 | **100** | **2** |
| 3 | ESC | 3CSD3-04 | Digital Electronics | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 4 | PCC | 3CSD4-05 | Data Structures and Algorithms | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 5 | | 3CSD4-06 | Object Oriented Programming | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 6 | | 3CSD4-07 | Software Engineering | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| | | | **Sub Total** | **17** | **0** | **0** | | | | | **17** |
| **PRACTICAL & SESSIONAL** | | | | | | | | | | | |
| 7 | PCC | 3CSD4-21 | Data Structures and Algorithms Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 8 | | 3CSD4-22 | Object Oriented Programming Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 9 | | 3CSD4-23 | Software Engineering Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 10 | | 3CSD4-24 | Digital Electronics Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 11 | PSIT | 3CSD7-30 | Industrial Training | 0 | 0 | 1 | | 60 | 40 | **100** | **1** |
| 12 | SODECA | 3CSD8-00 | Social Outreach, Discipline & Extra Curricular Activities | | | | | | | **100** | **0.5** |
| | | | **Sub- Total** | **0** | **0** | **13** | | | | | **7.5** |
| | | | **TOTAL OF III SEMESTER** | **17** | **0** | **13** | | | | | **24.5** |

***L:*** *Lecture,* ***T:*** *Tutorial,* ***P:*** *Practical,* ***Cr:*** *Credits*

***ETE:*** *End Term Exam,* ***IA:*** *Internal Assessment*

Office of Dean Academic Affairs
Rajasthan Technical University, Kota

Scheme of 2nd Year B. Tech. (CSD) for students admitted in Session 2021-22 onwards. Page 1

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# RAJASTHAN TECHNICAL UNIVERSITY, KOTA

## Teaching & Examination Scheme
## B.Tech. : Computer Science & Engineering (Cyber Security)
## 2nd Year - III Semester

| THEORY | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SN | Category | Course | | Contact hrs/week | | | Marks | | | | Cr |
| | | Code | Title | L | T | P | Exm Hrs | IA | ETE | Total | |
| 1 | BSC | 3CCS2-01 | Advanced Engineering Mathematics | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 2 | HSMC | 3CCS1-02/ 3CCS1-03 | Technical Communication/ Managerial Economics and Financial Accounting | 2 | 0 | 0 | 2 | 30 | 70 | **100** | **2** |
| 3 | ESC | 3CCS3-04 | Digital Electronics | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 4 | PCC | 3CCS4-05 | Data Structures and Algorithms | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 5 | | 3CCS4-06 | Object Oriented Programming | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 6 | | 3CCS4-07 | Software Engineering | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| | | | **Sub Total** | **17** | **0** | **0** | | | | | **17** |
| | | | | | | | | | | | |
| **PRACTICAL & SESSIONAL** | | | | | | | | | | | |
| 7 | PCC | 3CCS4-21 | Data Structures and Algorithms Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 8 | | 3CCS4-22 | Object Oriented Programming Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 9 | | 3CCS4-23 | Software Engineering Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 10 | | 3CCS4-24 | Digital Electronics Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 11 | PSIT | 3CCS7-30 | Industrial Training | 0 | 0 | 1 | | 60 | 40 | **100** | **1** |
| 12 | SODECA | 3CCS8-00 | Social Outreach, Discipline & Extra Curricular Activities | | | | | | | **100** | **0.5** |
| | | | **Sub- Total** | **0** | **0** | **13** | | | | | **7.5** |
| | | | **TOTAL OF III SEMESTER** | **17** | **0** | **13** | | | | | **24.5** |

***L:*** *Lecture,* ***T:*** *Tutorial,* ***P:*** *Practical,* ***Cr:*** *Credits*

***ETE:*** *End Term Exam,* ***IA:*** *Internal Assessment*

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# RAJASTHAN TECHNICAL UNIVERSITY, KOTA

## Teaching & Examination Scheme
## B.Tech. : Artificial Intelligence & Data Science
## 2nd Year - III Semester

| SN | Category | Course | | Contact hrs/week | | | Marks | | | | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Code | Title | L | T | P | Exm Hrs | IA | ETE | Total | |
| **THEORY** | | | | | | | | | | | |
| 1 | BSC | 3AID2-01 | Advanced Engineering Mathematics | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 2 | HSMC | 3AID1-02/ 3AID1-03 | Technical Communication/ Managerial Economics and Financial Accounting | 2 | 0 | 0 | 2 | 30 | 70 | **100** | **2** |
| 3 | ESC | 3AID3-04 | Digital Electronics | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 4 | PCC | 3AID4-05 | Data Structures and Algorithms | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 5 | | 3AID4-06 | Object Oriented Programming | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 6 | | 3AID4-07 | Software Engineering | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| | | | **Sub Total** | **17** | **0** | **0** | | | | | **17** |
| **PRACTICAL & SESSIONAL** | | | | | | | | | | | |
| 7 | PCC | 3AID4-21 | Data Structures and Algorithms Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 8 | | 3AID4-22 | Object Oriented Programming Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 9 | | 3AID4-23 | Software Engineering Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 10 | | 3AID4-24 | Digital Electronics Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 11 | PSIT | 3AID7-30 | Industrial Training | 0 | 0 | 1 | | 60 | 40 | **100** | **1** |
| 12 | SODECA | 3AID8-00 | Social Outreach, Discipline & Extra Curricular Activities | | | | | | | **100** | **0.5** |
| | | | **Sub- Total** | **0** | **0** | **13** | | | | | **7.5** |
| | | | **TOTAL OF III SEMESTER** | **17** | **0** | **13** | | | | | **24.5** |

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S

# RAJASTHAN TECHNICAL UNIVERSITY, KOTA

## Teaching & Examination Scheme
## B.Tech. : Computer Science & Engineering (AI)
## 2nd Year - III Semester

| SN | Category | Course | | Contact hrs/week | | | Marks | | | | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Code | Title | L | T | P | Exm Hrs | IA | ETE | Total | |
| **THEORY** | | | | | | | | | | | |
| 1 | BSC | 3CAI2-01 | Advanced Engineering Mathematics | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 2 | HSMC | 3CAI1-02/ 3CAI1-03 | Technical Communication/ Managerial Economics and Financial Accounting | 2 | 0 | 0 | 2 | 30 | 70 | **100** | **2** |
| 3 | ESC | 3CAI3-04 | Digital Electronics | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 4 | PCC | 3CAI4-05 | Data Structures and Algorithms | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 5 | | 3CAI4-06 | Object Oriented Programming | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| 6 | | 3CAI4-07 | Software Engineering | 3 | 0 | 0 | 3 | 30 | 70 | **100** | **3** |
| | | | **Sub Total** | **17** | **0** | **0** | | | | | **17** |
| **PRACTICAL & SESSIONAL** | | | | | | | | | | | |
| 7 | PCC | 3CAI4-21 | Data Structures and Algorithms Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 8 | | 3CAI4-22 | Object Oriented Programming Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 9 | | 3CAI4-23 | Software Engineering Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 10 | | 3CAI4-24 | Digital Electronics Lab | 0 | 0 | 3 | | 60 | 40 | **100** | **1.5** |
| 11 | PSIT | 3CAI7-30 | Industrial Training | 0 | 0 | 1 | | 60 | 40 | **100** | **1** |
| 12 | SODECA | 3CAI8-00 | Social Outreach, Discipline & Extra Curricular Activities | | | | | | | **100** | **0.5** |
| | | | **Sub- Total** | **0** | **0** | **13** | | | | | **7.5** |
| | | | **TOTAL OF III SEMESTER** | **17** | **0** | **13** | | | | | **24.5** |

***L:*** *Lecture,* ***T:*** *Tutorial,* ***P:*** *Practical,* ***Cr:*** *Credits*

***ETE:*** *End Term Exam,* ***IA:*** *Internal Assessment*

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# 8 PCE Teaching Scheme

**Teaching Scheme of ODD Semester (III Sem) 2022-23 (AI &DS, CS, AI )**

| Working Group | Year | Sem | Students | Dept. | Teaching Scheme | | | | Course Name | Subject Code | No. of Sec | No. of Batches | Batch Size (T/H/ | Total Load | Total Load (T) | Total Load (P) | Total Load (L+T+P) | Teaching Dept. | Cat. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | L | T | P | Credit | | | | | | | | | | | |
| CS/IT | 2 | 3 | **200** | CSE | 3 | 0 | 0 | 3 | Advanced Engineering Mathematics | 3AID2-01 | 3 | 9 | F | 9 | 0 | 0 | 9 | Maths | BSC |
| CS/IT | 2 | 3 | **200** | CSE | 2 | 0 | 0 | 2 | Managerial Economics and Financial | 3AID1-03 | 3 | 9 | F | 6 | 0 | 0 | 6 | Humanities | HSMC |
| CS/IT | 2 | 3 | **200** | CSE | 3 | 0 | 0 | 3 | Digital Electronics | 3AID3-04 | 3 | 9 | F | 9 | 0 | 0 | 9 | ECE | ESC |
| CS/IT | 2 | 3 | **200** | CSE | 3 | 0 | 0 | 3 | Data Structures and Algorithms | 3AID4-05 | 3 | 9 | F | 9 | 0 | 0 | 9 | CS | PCC |
| CS/IT | 2 | 3 | **200** | CSE | 3 | 0 | 0 | 3 | Object Oriented Programming | 3AID4-06 | 3 | 9 | F | 9 | 0 | 0 | 9 | s | PCC |
| CS/IT | 2 | 3 | **200** | CSE | 3 | 0 | 0 | 3 | Software Engineering | 3AID4-07 | 3 | 9 | F | 9 | 0 | 0 | 9 | CS | PCC |
| CS/IT | 2 | 3 | **200** | CSE | 0 | 0 | 3 | 1.5 | Data Structures and Algorithms Lab | 3AID4-21 | 3 | 9 | T | 0 | 0 | 27 | 27 | CS | PCC |
| CS/IT | 2 | 3 | **200** | CSE | 0 | 0 | 3 | 1.5 | Object Oriented Programming Lab | 3AID4-22 | 3 | 9 | T | 0 | 0 | 27 | 27 | CS | PCC |
| CS/IT | 2 | 3 | **200** | CSE | 0 | 0 | 3 | 1.5 | Software Engineering Lab | 3AID4-23 | 3 | 9 | T | 0 | 0 | 27 | 27 | CS | PCC |
| CS/IT | 2 | 3 | **200** | CSE | 0 | 0 | 3 | 1.5 | Digital Electronics Lab | 3AID4-24 | 3 | 9 | T | 0 | 0 | 27 | 27 | ECE | PCC |
| CS/IT | 2 | 3 | **200** | CSE | 0 | 0 | 1 | 1 | Industrial Training /NSP | 3AID7-30 | 3 | 9 | T | 0 | 0 | 9 | 9 | CS | PSIT |
| | | | | | | | | | | | TOTAL LOAD FOR II YEAR - III SEM | | | | | | **168** | | |

Total Load 168

**Teaching Scheme of ODD Semester (III Sem) 2022-23 (AI &DS, CS, AI and CSE (Regional Language))**

| Working Group | Year | Sem | Students | Dept. | Teaching Scheme | | | | Course Name | Subject Code | No. of Sec | No. of Batches | Batch Size (T/H/ | Total Load | Total Load (T) | Total Load (P) | Total Load (L+T+P) | Teaching Dept. | Cat. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | L | T | P | Credit | | | | | | | | | | | |
| CS/IT | 2 | 3 | **200** | CSE | 3 | 0 | 0 | 3 | Advanced Engineering Mathematics | 3AID2-01 | 4 | 10 | F | 12 | 0 | 0 | 12 | Maths | BSC |
| CS/IT | 2 | 3 | **200** | CSE | 2 | 0 | 0 | 2 | Managerial Economics and Financial | 3AID1-03 | 4 | 10 | F | 8 | 0 | 0 | 8 | Humanities | HSMC |
| CS/IT | 2 | 3 | **200** | CSE | 3 | 0 | 0 | 3 | Digital Electronics | 3AID3-04 | 4 | 10 | F | 12 | 0 | 0 | 12 | ECE | ESC |
| CS/IT | 2 | 3 | **200** | CSE | 3 | 0 | 0 | 3 | Data Structures and Algorithms | 3AID4-05 | 4 | 10 | F | 12 | 0 | 0 | 12 | CS | PCC |
| CS/IT | 2 | 3 | **200** | CSE | 3 | 0 | 0 | 3 | Object Oriented Programming | 3AID4-06 | 4 | 10 | F | 12 | 0 | 0 | 12 | CS | PCC |
| CS/IT | 2 | 3 | **200** | CSE | 3 | 0 | 0 | 3 | Software Engineering | 3AID4-07 | 4 | 10 | F | 12 | 0 | 0 | 12 | CS | PCC |
| CS/IT | 2 | 3 | **200** | CSE | 0 | 0 | 3 | 1.5 | Data Structures and Algorithms Lab | 3AID4-21 | 4 | 10 | T | 0 | 0 | 30 | 30 | CS | PCC |
| CS/IT | 2 | 3 | **200** | CSE | 0 | 0 | 3 | 1.5 | Object Oriented Programming Lab | 3AID4-22 | 4 | 10 | T | 0 | 0 | 30 | 30 | CS | PCC |
| CS/IT | 2 | 3 | **200** | CSE | 0 | 0 | 3 | 1.5 | Software Engineering Lab | 3AID4-23 | 4 | 10 | T | 0 | 0 | 30 | 30 | CS | PCC |
| CS/IT | 2 | 3 | **200** | CSE | 0 | 0 | 3 | 1.5 | Digital Electronics Lab | 3AID4-24 | 4 | 10 | T | 0 | 0 | 30 | 30 | ECE | PCC |
| CS/IT | 2 | 3 | **200** | CSE | 0 | 0 | 1 | 1 | Industrial Training /NSP | 3AID7-30 | 4 | 10 | T | 0 | 0 | 10 | 10 | CS | PSIT |
| | | | | | | | | | | | TOTAL LOAD FOR II YEAR - III SEM | | | | | | **198** | | |

Total Load 198

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## 8.1 Marking Scheme

| MARKING SCHEME FOR PRACTICAL EXAM, ODD SEM., 2021-22, | | EXAM & SECRECY CELL, PCE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | I+II Mid Term Exam | | | Atten & Performance. | | | End Term Exam | | | Max. |
| Code | SUBJECT | Exp. | Viva | Total | Attn. | Perf. | Total | Exp. | Viva | Total | Marks |
| 1FY2-20 | Engineering Physics Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 1FY2-21 | Engineering Chemistry Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 1FY1-22 | Language Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 1FY1-23 | Human Values Activities & Sports | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 1FY3-24 | Computer Programming Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 1FY3-25 | Manufacturing Practices Workshop | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 1FY3-26 | Basic Electrical Engineering Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 1FY3-27 | Basic Civil Engineering Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 1FY3-28 | Computer Aided Engineering Graphics | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 1FY3-29 | Computer Aided Machine Drawing | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3CE4-21 | Surveying Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3CE4-22 | Fluid Mechanics Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3CE4-23 | Computer Aided Civil Engineering Drawing | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3CE4-24 | Civil Engineering Maretials Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3CE4-25 | Geology Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3CE7-30 | Training Seminar | | | 60 | | | | | 40 | | 100 |
| 3CS4-21 | Data Structures and Algorithms Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3CS4-22 | Object Oriented Programming Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3CS4-23 | Software Engineering Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3CS4-24 | Digital Electronics Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3CS7-30 | Training Seminar | | | 60 | | | | | 40 | | 100 |
| 3EC4-21 | Electronics Devices Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3EC4-22 | Digital System Design Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3EC4-23 | Signal Processing Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3EC3-24 | Computer Programming Lab-I | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3EC7-30 | Training Seminar | | | 60 | | | | | 40 | | 100 |
| 3EE4-21 | Analog Electronics Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3EE4-22 | Electrical Machine-I Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3EE4-23 | Electrical circuit design Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3EE7-30 | Training Seminar | | | 30 | | | | | 20 | | 100 |
| 3IT4-21 | Data Structures and Algorithms Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3IT4-22 | Object Oriented Programming Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3IT4-23 | Software Engineering Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3IT4-24 | Digital Electronics Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3IT7-30 | Training Seminar | | | 60 | | | | | 40 | | 100 |
| 3ME4-21 | Machine drawing practice | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3ME4-22 | Materials Testing Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3ME4-23 | Basic Mechanical Engineering Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3ME4-24 | Programming using MAT LAB | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 3ME7-30 | Training Seminar | | | 60 | | | | | 40 | | 100 |
| 5CE4-21 | Concrete Structures Design | 22 | 8 | 30 | 8 | 22 | 30 | 22 | 8 | 30 | 75 |
| 5CE4-22 | Geotechnical Engineering Lab | 22 | 8 | 30 | 8 | 22 | 30 | 22 | 8 | 30 | 75 |
| 5CE4-23 | Water Resource Engineering Design | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5CE7-30 | Industrial Training | | | 75 | | | | | 50 | | 125 |
| 5CS4-21 | Computer Graphics & Multimedia Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5CS4-22 | Compiler Design Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5CS4-23 | Analysis of Algorithms Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5CS4-24 | Advance Java Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5CS7-30 | Industrial Training | | | 75 | | | | | 50 | | 125 |
| 5EC4-21 | RF Simulation Lab | 22 | 8 | 30 | 8 | 22 | 30 | 22 | 8 | 30 | 75 |
| 5EC4-22 | Digital Signal Processing Lab | 22 | 8 | 30 | 8 | 22 | 30 | 22 | 8 | 30 | 75 |
| 5EC4-23 | Microwave Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5EC7-30 | Industrial Training | | | 75 | | | | | 50 | | 125 |
| 5EE4-21 | Power System - I Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5EE4-22 | Control System Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5EE4-23 | Microprocessor Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5EE4-24 | System Programming Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5EE7-30 | Industrial Training | | | 75 | | | | | 50 | | 125 |
| 5IT4-21 | Computer Graphics & Multimedia Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5IT4-22 | Compiler Design Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5IT4-23 | Analysis of Algorithms Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5IT4-24 | Advanced Java Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5IT7-30 | Industrial Training | | | 75 | | | | | 50 | | 125 |
| 5ME3-21 | Mechatronic Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5ME4-22 | Heat Transfer lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5ME4-23 | Production Engineering Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5ME4-24 | Machine Design Practice I | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 5ME7-30 | Industrial Training | | | 75 | | | | | 50 | | 125 |
| 7CE4-21 | Road Material Testing Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 7CE4-22 | Professional Practices & Field Engineering | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 7CE4-23 | Soft Skills Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 7CE4-24 | Environmental Monitoring and Design Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 7CE7-30 | Practical Training | | | 75 | | | | | 50 | | 125 |
| 7CE7-40 | Seminar | | | 60 | | | | | 40 | | 100 |
| 7CS4-21 | Internet of Things Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 7CS4-22 | Cyber Security Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 7CS7-30 | Industrial Training | | | 75 | | | | | 50 | | 125 |
| 7CS7-40 | Seminar | | | 60 | | | | | 40 | | 100 |
| 7EC4-21 | VLSI Design Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 7EC4-22 | Advance communication lab (MATLAB | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 7EC4-23 | Optical Communication Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 7EC7-30 | Industrial Training | | | 75 | | | | | 50 | | 125 |
| 7EC7-40 | Seminar | | | 60 | | | | | 40 | | 100 |
| 7EE4-21 | Embedded Systems Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 7EE4-22 | Advance control system lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 7EE7-30 | Industrial Training | | | 75 | | | | | 50 | | 125 |
| 7EE7-40 | Seminar | | | 60 | | | | | 40 | | 100 |
| 7IT4-21 | Big Data Analytics Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 7IT4-22 | Cyber Security Lab | 30 | 10 | 40 | 10 | 30 | 40 | 30 | 10 | 40 | 100 |
| 7IT7-30 | Industrial Training | | | 75 | | | | | 50 | | 125 |
| 7IT7-40 | Seminar | | | 60 | | | | | 40 | | 100 |
| 7ME4-21 | FEA Lab | 22 | 8 | 30 | 8 | 22 | 30 | 22 | 8 | 30 | 75 |
| 7ME4-22 | Thermal Engineering Lab II | 22 | 8 | 30 | 8 | 22 | 30 | 22 | 8 | 30 | 75 |
| 7ME4-23 | Quality Control Lab | 15 | 5 | 20 | 5 | 15 | 20 | 15 | 5 | 20 | 50 |
| 7ME7-30 | Industrial Training * | | | 75 | | | | | 50 | | 125 |
| 7ME7-40 | Seminar * | | | 60 | | | | | 40 | | 100 |

NOTE: - (1) In Attendance & Performance marks should be given on the basis of student overall performance in semester i. e. continuous evaluation.
(2) In Common Pool marks should be given by HOD on the basis of student Assignment,Non Syllabus Activity,Online Exam Exam,Application/Survey / Case Study based Learning, Pre-Placement Activity, Department Level Career Oriented Activities through out the semester.

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## 9 Department Load Allocation

# POORNIMA COLLEGE OF ENGINEERING, JAIPUR

## Department of Advance Computing

## Load Sheet of Session 2022-23 (ODD Semester)

| Sr. No. | Faculty Name | Subject(s) | Subject Code | Section | L | T | P | Load Per Week | Total Load |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| 1 | Dr Mithlesh Arya | Industrial Training | 3CAIS7-30 | D | 0 | 0 | 1 | 1 | 1 |
| | | | | | | | | | |
| | | | | | | | | | |
| 2 | Mr. GAURAV SHARMA | Software Engineering | 3AID4-07 | E | 3 | 0 | 0 | 3 | |
| | | Software Engineering Lab | 3AID4-23 | E123 | 0 | 0 | 3 | 9 | 12 |
| | | | | | | | | | |
| 3 | MS. NEETU | Object Oriented Programming | 3AID4-06 | E | 3 | 0 | 0 | 3 | |
| | | Object Oriented Programming Lab | 3AID4-22 | E123 | 0 | 0 | 3 | 9 | |
| | | I3 Activity | 3CS | D | 1 | 0 | 0 | 1 | 13 |
| | | | | | | | | | |
| 4 | MS. REENA SHARMA | Data Structures and Algorithms | 3CAI4-05 | D | 3 | 0 | 0 | 3 | |
| | | Data Structures and Algorithms Lab | 3CAI4-21 | D123 | 0 | 0 | 3 | 9 | 12 |
| | | | | | | | | | |
| 5 | Ms. NIDHI GUPTA | Data Structures and Algorithms | 3CCS4-05 | F | 3 | 0 | 0 | 3 | |
| | | Data Structures and Algorithms Lab | 3CCS4-21 | F123 | 0 | 0 | 3 | 9 | 12 |
| | | | | | | | | | |
| 6 | Mrs. ARCHANA BHARDWAJ | Object Oriented Programming | 3CCS4-06 | F | 3 | 0 | 0 | 3 | |
| | | Object Oriented Programming Lab | 3CCS4-22 | F123 | 0 | 0 | 3 | 9 | 12 |
| | | | | | | | | | |
| 7 | Mr. DEEPAK BABERWAL | Industrial Training | 3CCS7-30 | C | 0 | 0 | 1 | 1 | |
| | | Object Oriented Programming | 3CAI4-06 | D | 3 | 0 | 0 | 3 | |
| | | Object Oriented Programming Lab | 3CAI4-22 | D123 | 0 | 0 | 3 | 9 | 13 |
| | | | | | | | | | |
| 8 | Dr. Divya jain | Software Engineering | 3CCS4-07 | F | 3 | 0 | 0 | 3 | |
| | | Software Engineering Lab | 3CCS4-23 | F123 | 0 | 0 | 3 | 9 | 12 |
| | | | | | | | | | |
| 9 | MR. PRADEEP KUMAR | Adv. Engg. Math | 3AID2-01 | E | 3 | 3 | 0 | 6 | |
| | | Adv. Engg. Math | 3CAI2-01 | D | 3 | 3 | 0 | 6 | |
| | | Adv. Engg. Math | 3CCS2-01 | F | 3 | 3 | 0 | 6 | 18 |
| | | | | | | | | | |

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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **10** | **MS. KALPANA SHARMA** | **Managerial Economics and Financial Accounting** | **3CAI1-03** | **D** | **2** | **0** | **0** | **2** | |
| | | **Managerial Economics and Financial Accounting** | **3AID1-03** | **E** | **2** | **0** | **0** | **2** | |
| | | **Managerial Economics and Financial Accounting** | **3CCS1-03** | **F** | **2** | **0** | **0** | **2** | **6** |
| | | | | | | | | | |
| **11** | **Ms. DEEPIKA AGRAWAL** | **Data Structures and Algorithms** | **3AID4-05** | **E** | **3** | **0** | **0** | **3** | |
| | | **Data Structures and Algorithms Lab** | **3AID4-21** | **E123** | **0** | **0** | **3** | **9** | **12** |
| | | | | | | | | | |
| **12** | **Mr. BHAGIRATH CHOUHAN** | **Industrial Training** | **3AID7-30** | **E** | **0** | **0** | **1** | **1** | |
| | | **I3 Activity** | **3AID** | **E** | **1** | **0** | **0** | **1** | |
| | | **I3 Activity** | **3CCS** | **F** | **1** | **0** | **0** | **1** | |
| | | **NSP** | **3 AC** | **DEF** | **3** | **0** | **0** | **9** | **12** |
| | | | | | | | | | |
| **13** | **Dr. Indrajit ghosal** | **Software Engineering** | **3CAI4-07** | **D** | **3** | **0** | **0** | **3** | |
| | | **Software Engineering Lab** | **3CAI4-23** | **D123** | **0** | **0** | **3** | **9** | **12** |
| | | | | | | | | | |
| **14** | **Mr. Praveen Agarwal** | **Digital Electronics** | **3AID3-04** | **E** | **3** | **0** | **0** | **3** | |
| | | **Digital Electronics Lab** | **3AID4-24** | **E123** | **0** | **0** | **2** | **6** | **9** |
| | | | | | | | | | |
| **15** | **Dr. KAMLESH GAUTAM** | **Digital Electronics** | **3CAI3-04** | **D** | **3** | **0** | **0** | **3** | |
| | | **Digital Electronics Lab** | **3CAI4-24** | **D** | **0** | **0** | **2** | **6** | |
| | | **Digital Electronics Lab** | **3CCS4-24** | **F12** | **0** | **0** | **2** | **4** | **13** |
| | | | | | | | | | |
| **16** | **Dr. ABHISHEK SHARMA** | **Digital Electronics** | **3CS3-04** | **F** | **3** | **0** | **0** | **3** | |
| | | **Digital Electronics Lab** | **3CS4-24** | **F1** | **0** | **0** | **2** | **2** | **5** |



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# Time Table

## 9.1 Orientation Time Table

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
III-Artificial Intelligence & Data Science (AI & DS)

WEF: 16.08.2022
Co-ordinator Name:Dr. Mithlesh Arya

| | 1<br>8:00 - 9:00 | 2<br>9:00 - 10:00 | 3<br>10:00 - 11:00 | LUNCH<br>11:00 - 11:50 | 4<br>11:50 - 12:50 | 5<br>12:50 - 13:50 | 6<br>13:50 - 14:50 | 7<br>15:00 - 16:00 |
|---|---|---|---|---|---|---|---|---|
| Tuesday<br>16.08.2022 | CF-04<br>**Co-ordinator Interaction**<br>Dr.Mithlesh Arya | AF-04<br>**3AID7-30 Ind. Training**<br>Dr.Gajanand Gupta | CF-04<br>**Placement Interaction**<br>Dr.Mithlesh Arya | | AF-11 AID 1-Batch **3AID4-24 DE LAB** Ms.Sonam Gour<br>AF-8A AID 2-Batch **3AID4-21 DSA LAB** Dr.Mithlesh Arya<br>AF-1C AID 3-Batch **3AID4-23 SE LAB** Mr Gaurav Sharma | AF-04<br>**NPTEL Interaction**<br>Ms. Harshita Virwani | AF-03<br>**3AID4-07 SE**<br>Mr Gaurav Sharma | Activity |
| Wednesday<br>17.08.2022 | AF-03<br>**3AID1-02 MEFA**<br>Ms.Kalpana Sharma | AF-04<br>**Internship Interaction**<br>Dr.Mithlesh Arya | AF-8A AID 1-Batch **3AID4-21 DSA LAB** Dr.Mithlesh Arya<br>AF-11 AID 2-Batch **3AID4-24 DE LAB** Ms.Sonam Gour<br>AF-1C AID 3-Batch **3AID4-22 OOP LAB** Mr.Suresh Vyas | LUNCH | CF-04<br>**3AID3-04 DE**<br>Ms.Sonam Gour | AF-1D AID 1-Batch **3AID4-23 SE LAB** Mr Gaurav Sharma<br>AF-7B AID 2-Batch **3AID4-22 OOP LAB** Mr.Suresh Vyas<br>AF-8A AID 3-Batch **3AID4-21 DSA LAB** Dr.Mithlesh Arya | AF-03<br>**3AID2-01 AEM**<br>Dr.Shilpi Jain | Activity |
| Thrusday<br>18.08.2022 | CF-04<br>**3AID4-05 DSA**<br>Dr.Mithlesh Arya | CF-03<br>**NSP Interaction**<br>Ms. Archika Jain | AF-03<br>**3AID4-06 OOP**<br>Mr.Suresh Vyas | | AF-04<br>**HoD/Dy HoD Interaction**<br>Dr Surendra Kr Yadav / Mr. Manish Dubey | CF-13<br>**Co-ordinator Interaction (Activity)**<br>Dr.Mithlesh Arya | AF-1A AID 1-Batch **3AID4-22 OOP LAB** Mr.Suresh Vyas<br>AF-1C AID 2-Batch **3AID4-23 SE LAB** Mr Gaurav Sharma<br>AF-11 AID 3-Batch **3AID4-24 DE LAB** Ms.Sonam Gour | Activity |

Time Table Coordinators: Dr.Nikita Jain, Dr.Abhishek Sharma, Mr.Manish Dubey Dy.HoD(Academics), Dr. Surendra Kumar Yadav, HoD, CE
Vice Principal, PCE, Director, PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
III-Artificial Intelligence (AI)

Class Location: CF-03
WEF: 16.08.2022
Co-ordinator Name:Dr. Kamlesh Kumar Gautam

| | 1<br>8:00 - 9:00 | 2<br>9:00 - 10:00 | 3<br>10:00 - 11:00 | LUNCH<br>11:00 - 11:50 | 4<br>11:50 - 12:50 | 5<br>12:50 - 13:50 | 6<br>13:50 - 14:50 | 7<br>15:00 - 16:00 |
|---|---|---|---|---|---|---|---|---|
| Tuesday<br>16.08.2022 | **NSP Interaction**<br>Ms. Archika Jain | **Co-ordinator Interaction**<br>Dr Kamlesh Gautam | AF-8A AI 1-Batch **3CSAI4-21 DSA LAB** Ms.Reena Sharma<br>AF-1A AI 2-Batch **3CAI4-22 OOP LAB** Ms. Archika Jain<br>AF-11 AI 3-Batch **3CAI4-24 DE LAB** Dr Kamlesh Gautam | | **3CAI7-30 IT**<br>Ms. Neha Shrotiya | **Internship Interaction**<br>Dr Kamlesh Gautam | **3CAI2-01 AEM**<br>New Faculty(Maths) | Activity |
| Wednesday<br>17.08.2022 | **3CAI4-05 DSA**<br>Ms.Reena Sharma | **HoD/Dy HoD Interaction**<br>Dr Surendra Kr Yadav / Mr. Manish Dubey | **Placement Interaction**<br>Dr Kamlesh Gautam | LUNCH | **NPTEL Interaction**<br>Ms. Harshita Virwani | AF-11 AI 1-Batch **3CAI4-24 DE LAB** Dr Kamlesh Gautam<br>AF-1C AI 2-Batch **3CAI4-23 SE LAB** Ms Archana Soni<br>AF-1A AI 3-Batch **3CAI4-22 OOP LAB** Ms. Archika Jain | **Co-ordinator Interaction** (Activity)<br>Dr Kamlesh Gautam | Activity |
| Thrusday<br>18.08.2022 | **3CAI4-06 OOP**<br>Ms. Archika Jain | AF-1C AI 1-Batch **3CAI4-23 SE LAB** Ms Archana Soni<br>AF-11 AI 2-Batch **3CAI4-24 DE LAB** Dr Kamlesh Gautam<br>AF-8A AI 3-Batch **3CSAI4-21 DSA LAB** Ms.Reena Sharma | **3CAI4-07 SE**<br>Ms Archana Soni | | **3CAI1-03 MEFA**<br>Ms.Kalpana Sharma | AF-1A AI 1-Batch **3CAI4-22 OOP LAB** Ms. Archika Jain<br>AF-7A AI 2-Batch **3CSAI4-21 DSA LAB** Ms.Reena Sharma<br>AF-1C AI 3-Batch **3CAI4-23 SE LAB** Ms Archana Soni | **3CAI3-04 DE**<br>Dr Kamlesh Gautam | Activity |

Time Table Coordinators: Dr.Nikita Jain, Dr.Abhishek Sharma, Mr.Manish Dubey Dy.HoD(Academics), Dr. Surendra Kumar Yadav, HoD, CE
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POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
III-F(Cyber Security)

Class Location: CF-13
WEF: 16.08.2022
Tutor Name: Ms. Archana Bhardwaj

| | 1<br>8:00 - 9:00 | 2<br>9:00 - 10:00 | 3<br>10:00 - 11:00 | LUNCH<br>11:00 - 11:50 | 4<br>11:50 - 12:50 | 5<br>12:50 - 13:50 | 6<br>13:50 - 14:50 | 7<br>15:00 - 16:00 |
|---|---|---|---|---|---|---|---|---|
| Mon | AF-7B 3CCS4-21 DSA LAB Cy.S1-Batch Ms.Nidhi Gupta | | | | AF-1D 3CCS4-22 OOP LAB Cy.S1-Batch Ms.Archana Bhardwaj | | | |
| | 3CCS2-01 AEM tut Cy.S2-Batch | AF-11 3CCS4-24 DE Lab Cy.S2-Batch Dr. Kamlesh Gautam | | | AG-24 3CCS4-23 SE Lab Cy.S2-Batch Dr.Divya Jain | | | C Language |
| | AF-12 3CCS4-24 DE Lab Cy.S3-Batch Dr. Abhishek Sharma | | 3CCS2-01 AEM tut Cy.S3-Batch | | AF-7B 3CCS4-21 DSA LAB Cy.S3-Batch Ms.Nidhi Gupta | | | Mr.Saransh Sharma / Ms.Shilpa Kalra |
| Tues | 3CCS4-07 SE Dr.Divya Jain | 3CCS3-04 Digital Electronics Dr. Abhishek Sharma | 3CCS4-06 OOP Ms.Archana Bhardwaj | | 3CCS4-07 SE Dr.Divya Jain | 3CCS4-05 DSA Ms.Nidhi Gupta | 3CCS2-01 AEM Mr.Pradeep Kumar | Add on Course |
| Wed | 3CCS4-06 OOP Ms.Archana Bhardwaj | 3CCS1-03 MEFA Ms.Kalpana Sharma | 3CCS3-04 Digital Electronics Dr. Abhishek Sharma | | 3CCS2-01 AEM tut Cy.S1-Batch | AF-12 3CCS4-24 DE Lab Cy.S1-Batch Dr. Kamlesh Gautam | | |
| | | | | | AF-8A 3CCS4-22 OOP LAB Cy.S2-Batch Ms.Archana Bhardwaj | | | C Language |
| | | | | | AF-7B 3CCS4-23 SE Lab Cy.S3-Batch Dr.Divya Jain | | | Mr.Saransh Sharma Ms.Shilpa Kalra |
| Thur | 3CCS7-30 Indistrial Training Mr. Deepak Baberwal | 3CCS2-01 AEM Mr.Pradeep Kumar | 3CCS4-05 DSA Ms.Nidhi Gupta | | AG-24 3CCS4-23 SE Lab Cy.S1-Batch Dr.Divya Jain | | | |
| | | | | | AF-7B 3CCS4-21 DSA LAB Cy.S2-Batch Ms.Nidhi Gupta | | | Add on Course |
| | | | | | AF-8A 3CCS4-22 OOP LAB Cy.S3-Batch Ms.Archana Bhardwaj | | | |
| Fri | 3CCS4-05 DSA Ms.Nidhi Gupta | 3CCS2-01 AEM Mr.Pradeep Kumar | 3CCS3-04 Digital Electronics Dr. Abhishek Sharma | | 3CCS4-07 SE Dr.Divya Jain | 3CCS1-03 MEFA Ms.Kalpana Sharma | 3CCS4-06 OOP Ms.Archana Bhardwaj | C Language<br>Mr.Saransh Sharma Ms.Shilpa Kalra |
| Sat | I3 Activity Mr. Bhagirath Chouhan | I3 ACTIVITY | | | I3 Activity | | | |

Time Table Coordinators, HOD, Vice Principal, Director PCE

## 9.2 Academic Time Table

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
III-D(Artificial Intelligence)

Class Location: AF-04
WEF: 18.08.2022
Tutor Name: Mr. Gaurav Sharma

| | 1<br>8:00 - 9:00 | 2<br>9:00 - 10:00 | 3<br>10:00 - 11:00 | LUNCH<br>11:00 - 11:50 | 4<br>11:50 - 12:50 | 5<br>12:50 - 13:50 | 6<br>13:50 - 14:50 | 7<br>15:00 - 16:00 |
|---|---|---|---|---|---|---|---|---|
| Mon | 3CAI1-03 MEFA Ms.Kalpana Sharma | 3CAI2-01 AEM Mr.Pradeep Kumar | 3CAI4-07 SE Dr. Indrajit Ghosal | | 3CAI3-04 DE Dr. Kamlesh Gautam | 3CAI4-05 DSA Ms.Reena Sharma | 3CAI4-06 OOP Mr.Manoj Saini | C Language<br>Mr.Saransh Sharma / Ms.Shilpa Kalra |
| Tues | 3CAI2-01 AEM Mr.Pradeep Kumar | 3CAI1-03 MEFA Ms.Kalpana Sharma | 3CAI4-05 DSA Ms.Reena Sharma | | AF-1C 3CAI4-23 SE LAB AI 1-Batch Dr. Indrajit Ghosal | | | |
| | | | | | AF-8B 3CAI4-22 OOP LAB AI 2-Batch Mr.Manoj Saini | | | Add on Course |
| | | | | | 3CAI2-01 AEM tut AI 3-Batch | AF-12 3CAI4-24 DE LAB AI 3-Batch Dr. Kamlesh Gautam | | |
| Wed | 3CAI3-04 DE Dr. Kamlesh Gautam | 3CAI4-05 DSA Ms.Reena Sharma | 3CAI4-06 OOP Mr.Manoj Saini | | AG-24 3CAI4-22 OOP LAB AI 1-Batch Mr.Manoj Saini | | | |
| | | | | | AF-1D 3CSAI4-21 DSA LAB AI 2-Batch Ms.Reena Sharma | | | C Language |
| | | | | | AF-7B 3CAI4-23 SE LAB AI 3-Batch Dr. Indrajit Ghosal | | | Mr.Saransh Sharma / Ms.Shilpa Kalra |
| Thur | 3CAI7-30 IT Ms. Deepika Agrawal | 3CAI4-07 SE Dr. Indrajit Ghosal | 3CAI4-06 OOP Mr.Manoj Saini | | 3CAI3-04 DE Dr. Kamlesh Gautam | 3CAI4-07 SE Dr. Indrajit Ghosal | 3CAI2-01 AEM Mr.Pradeep Kumar | Add on Course |
| Fri | AF-8A 3CSAI4-21 DSA LAB AI 1-Batch Ms.Reena Sharma | | | | 3CAI2-01 AEM tut AI 1-Batch | AF-12 3CAI4-24 DE LAB AI 1-Batch Dr. Kamlesh Gautam | | |
| | AF-11 3CAI4-24 DE LAB AI 2-Batch Dr. Kamlesh Gautam | | 3CAI2-01 AEM tut AI 2-Batch | | AF-1B 3CAI4-23 SE LAB AI 2-Batch Dr. Indrajit Ghosal | | | C Language |
| | AG-24 3CAI4-22 OOP LAB AI 3-Batch Mr.Manoj Saini | | | | AF-1A 3CSAI4-21 DSA LAB AI 3-Batch Ms.Reena Sharma | | | Mr.Saransh Sharma / Ms.Shilpa Kalra |
| Sat | I3 ACTIVITY Ms.Neetu Joshi | I3 ACTIVITY | | | I3 Activity | | | |

Time Table Coordinators , HOD, Vice Principal, Director PCE

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POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
III-E(Artificial Intelligence and Data Science)

Class Location: AF-03
WEF: 18.08.2022
Tutor Name: Ms. Reena Sharma

| | 1<br>8:00 - 9:00 | 2<br>9:00 - 10:00 | 3<br>10:00 - 11:00 | LUNCH<br>11:00 - 11:50 | 4<br>11:50 - 12:50 | 5<br>12:50 - 13:50 | 6<br>13:50 - 14:50 | 7<br>15:00 - 16:00 |
|---|---|---|---|---|---|---|---|---|
| Mon | AF-7B 3AID4-22 OOP LAB AID 1-Batch Ms.Neetu Joshi | | | | | | | |
| | AF-02 AID 2-Batch **3AID2-01 AEM Tut** Mr.Pradeep Kumar | AF-12 3AID4-24 DE LAB AID 2-Batch Mr. Praveen Agarwal | | | **3AID3-04 DE** Mr. Praveen Agarwal | **3AID4-06 OOP** Ms.Neetu Joshi | **3AID2-01 AEM** Mr.Pradeep Kumar | **C Language** Mr.Saransh Sharma / Ms.Shilpa Kalra |
| | AF-1C 3AID4-23 SE LAB AID 3-Batch Mr Gaurav Sharma | | | | | | | |
| Tues | AF-1B 3AID4-23 SE LAB AID 1-Batch Mr Gaurav Sharma | | | | | | | |
| | AF-7B 3AID4-21 DSA LAB AID 2-Batch Dr.Mithlesh Arya | | | | **3AID4-05 DSA** Dr.Mithlesh Arya | **3AID2-01 AEM** Mr.Pradeep Kumar | **3AID4-07 SE** Mr Gaurav Sharma | **Add on Course** |
| | AF-7A 3AID4-22 OOP LAB AID 3-Batch Ms.Neetu Joshi | | | | | | | |
| Wed | **3AID4-06 OOP** Ms.Neetu Joshi | **3AID4-05 DSA** Dr.Mithlesh Arya | **3AID3-04 DE** Mr. Praveen Agarwal | LUNCH | **3AID7-30 Ind. Training** Mr. Bhagirath Chouhan | **3AID4-07 SE** Mr Gaurav Sharma | **3AID1-02 MEFA** Ms.Kalpana Sharma | **C Language** Mr.Saransh Sharma / Ms.Shilpa Kalra |
| Thur | **3AID2-01 AEM** Mr.Pradeep Kumar | **3AID4-06 OOP** Ms.Neetu Joshi | **3AID3-04 DE** Mr. Praveen Agarwal | | **3AID4-07 SE** Mr Gaurav Sharma | **3AID4-05 DSA** Dr.Mithlesh Arya | **3AID1-02 MEFA** Ms.Kalpana Sharma | **Add on Course** |
| Fri | AF-14 AID 1-Batch **3AID2-01 AEM Tut** Mr.Pradeep Kumar | AF-12 3AID4-24 DE LAB AID 1-Batch Mr. Praveen Agarwal | | | AF-7B 3AID4-21 DSA LAB AID 1-Batch Dr.Mithlesh Arya | | | |
| | AS-2B 3AID4-22 OOP LAB AID 2-Batch Ms.Neetu Joshi | | | | AG-24 3AID4-23 SE LAB AID 2-Batch Mr Gaurav Sharma | | | **C Language** Mr.Saransh Sharma / Ms.Shilpa Kalra |
| | AF-1B 3AID4-21 DSA LAB AID 3-Batch Dr.Mithlesh Arya | | | | AF-12 3AID4-24 DE LAB AID 3-Batch Mr. Praveen Agarwal | | AF-14 AID 3-Batch **3AID2-01 AEM Tut** Mr.Pradeep Kumar | |
| Sat | **I3 ACTIVITY** Mr Dinesh Chandra Sharma | I3 ACTIVITY | | | I3 Activity | | | |

Time Table Coordinators , HOD, Vice Principal, Director PCE

POORNIMA COLLEGE OF ENGINEERING
DEPARTMENT OF ADVANCE COMPUTING
III-F(Cyber Security)

Class Location: CF-13
WEF:18.08.2022
Tutor Name: Ms. Archana Bhardwaj

| | 1<br>8:00 - 9:00 | 2<br>9:00 - 10:00 | 3<br>10:00 - 11:00 | LUNCH<br>11:00 - 11:50 | 4<br>11:50 - 12:50 | 5<br>12:50 - 13:50 | 6<br>13:50 - 14:50 | 7<br>15:00 - 16:00 |
|---|---|---|---|---|---|---|---|---|
| Mon | AF-8B 3CCS4-21 DSA LAB Cy.S1-Batch Ms.Nidhi Gupta | | | | | | | |
| | AF-11 3CCS4-24 DE Lab Cy.S2-Batch Dr. Kamlesh Gautam | | AG-24 Cy.S2-Batch **3CCS4-22 OOP LAB** Ms.Archana Bhardwaj | | AF-1D 3CCS4-22 OOP LAB Cy.S1-Batch Ms.Archana Bhardwaj | | | |
| | AF-12 3CCS4-24 DE Lab Cy.S3-Batch Dr. Abhishek Sharma | | AF-14 Cy.S3-Batch **3CCS2-01 AEM tut** Mr.Pradeep Kumar | | AG-24 3CCS4-23 SE Lab Cy.S2-Batch Dr.Divya Jain | | | **C Language** Mr.Saransh Sharma / Ms.Shilpa Kalra |
| | | | | | AF-8B 3CCS4-21 DSA LAB Cy.S3-Batch Ms.Nidhi Gupta | | | |
| Tues | **3CCS4-07 SE** Dr.Divya Jain | **3CCS3-04 Digital Electronics** Dr. Abhishek Sharma | **3CCS4-06 OOP** Ms.Archana Bhardwaj | | **3CCS4-07 SE** Dr.Divya Jain | **3CCS4-05 DSA** Ms.Nidhi Gupta | **3CCS2-01 AEM** Mr.Pradeep Kumar | **Add on Course** |
| Wed | **3CCS4-06 OOP** Ms.Archana Bhardwaj | **3CCS1-03 MEFA** Ms.Kalpana Sharma | **3CCS3-04 Digital Electronics** Dr. Abhishek Sharma | LUNCH | AF-02 Cy.S1-Batch **3CCS2-01 AEM tut** Mr.Pradeep Kumar | AF-12 Cy.S1-Batch 3CCS4-24 DE Lab Dr. Kamlesh Gautam | | **C Language** Mr.Saransh Sharma / Ms.Shilpa Kalra |
| | | | | | AF-8A Cy.S2-Batch **3CCS4-22 OOP LAB** Ms.Archana Bhardwaj | AF-02 Cy.S2-Batch **3CCS2-01 AEM tut** Mr.Pradeep Kumar | AF-7A Cy.S2-Batch **3CCS4-22 OOP LAB** Ms.Archana Bhardwaj | |
| | | | | | AG-24 3CCS4-23 SE Lab Cy.S3-Batch Dr.Divya Jain | | | |
| Thur | **3CCS7-30 Indistrial Training** Mr. Deepak Baberwal | **3CCS2-01 AEM** Mr.Pradeep Kumar | **3CCS4-05 DSA** Ms.Nidhi Gupta | | AG-24 3CCS4-23 SE Lab Cy.S1-Batch Dr.Divya Jain | | | **Add on Course** |
| | | | | | AF-8B 3CCS4-21 DSA LAB Cy.S2-Batch Ms.Nidhi Gupta | | | |
| | | | | | AF-8A 3CCS4-22 OOP LAB Cy.S3-Batch Ms.Archana Bhardwaj | | | |
| Fri | **3CCS4-05 DSA** Ms.Nidhi Gupta | **3CCS2-01 AEM** Mr.Pradeep Kumar | **3CCS3-04 Digital Electronics** Dr. Abhishek Sharma | | **3CCS4-07 SE** Dr.Divya Jain | **3CCS1-03 MEFA** Ms.Kalpana Sharma | **3CCS4-06 OOP** Ms.Archana Bhardwaj | **C Language** Mr.Saransh Sharma / Ms.Shilpa Kalra |
| Sat | **I3 ACTIVITY** Mr Dinesh Chandra Sharma | I3 ACTIVITY | | | I3 Activity | | | |

Time Table Coordinators , HOD, Vice Principal, Director PCE

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

# 10 Course Outcome Attainment Process:

## 10.1 Course Outcome Attainment Process

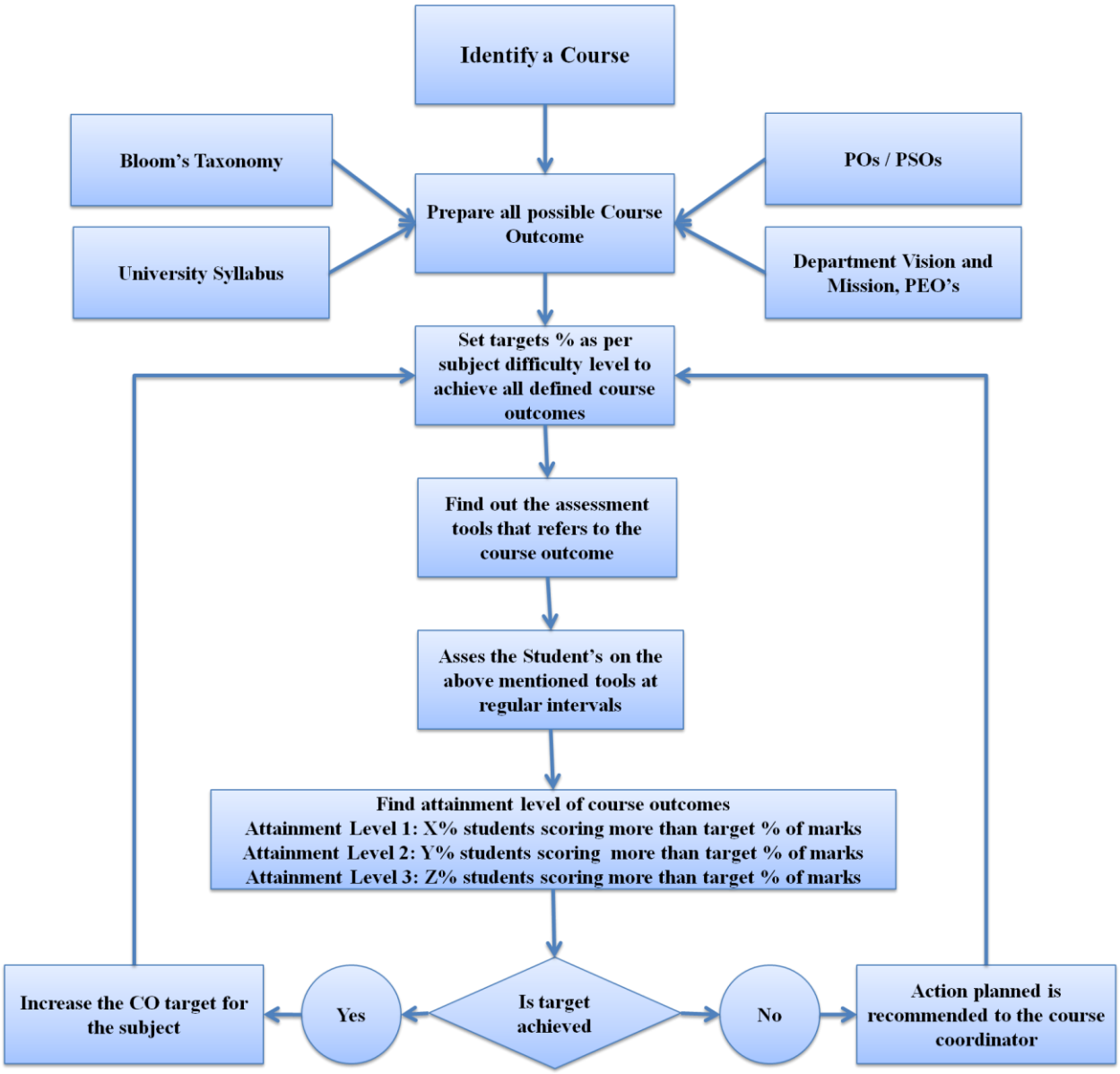


**Figure. Course Outcome Attainment Process**

## 10.2 List of CO & CO mapping with PO

| S.No | Course Code Course Name | CO No | Course Outcomes (After completing the course students will be able to…... ) | | PO 2 | PO 3 | PO 4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO 11 | PO 12 | PSO 1 | PSO 2 | PSO3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3CS2-01 Advanced Engineering Mathematics | CO 1 | To Define probability models using probability mass (density) functions, need and classification of optimization terminology. | **1** | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - |
| | | CO 2 | To Explain the probability distributions of discrete and continuous random variables and work binomial, Poisson, uniform, exponential, normal distribution and their statistical measures. | **2** | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - |
| | | CO 3 | To Solve mathematical models of the real world problems in optimization using Linear Programming methods such as Transportation, Traveling salesman and many more such problems. | **3** | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - |
| | | CO 4 | To Examine the correlation between two variables and regression applications for purposes of description and prediction. | - | **3** | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 1 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 2 | 3CS1-03 Managerial Economics and Financial Accounting | CO 1 | To Describe the fundamental concepts of Economics and Financial Management and define the meaning of national income, demand, supply, cost, market structure, and balance sheet. | - | - | - | - | - | 1 | - | - | - | 2 | 3 | 1 | - | - | - |
| | | CO 2 | To Calculate the domestic product, national product and elasticity of price on demand and supply. | - | - | - | - | - | 2 | - | - | - | - | 3 | - | - | - | - |
| | | CO 3 | To Draw the cost graphs, revenue graphs and forecast the impact of change in price in various perfect as well as imperfect market structures. | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - | - | - | - |
| | | CO 4 | To Compare the financial statements to interpret the financial position of the firm and evaluate the project investment decisions. | - | 3 | - | - | - | - | - | - | - | - | 2 | - | - | - | - |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 3 | 3CS3-04 Digital Electronics | CO 1 | To Apply the fundamentals of Number Systems and boolean Algebra for solving the numericals and logical problems. | **2** | - | - | - | - | - | - | - | - | - | - | - | **2** | - | - |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CO 2 | To Recognize minimization techniques for reducing the size of any digital circuits. | - | **2** | - | - | - | - | - | - | - | - | - | - | **2** | - | - |
| | | CO 3 | To Design combinational and sequential circuits with aspects of speed, delay, energy dissipation and power. | - | - | 3 | - | - | - | - | - | - | - | - | - | **2** | - | - |
| | | CO 4 | To Evaluate the performance of Digital Logic Families and its realization. | - | - | - | 2 | - | - | - | - | - | - | - | - | - | **2** | - |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 4 | 3CS4-05 Data Structures and Algorithms | CO 1 | To explain data structures and their use in daily life . | 2 | - | - | | - | - | - | - | - | - | - | - | - | 2 | - |
| | | CO 2 | To analyze the Linear and non Linear data structures like stack, Queues, link list, Graph, Trees to solve real time problems. | - | 3 | - | - | - | - | - | - | - | - | - | - | - | 2 | - |
| | | CO 3 | To develop searching and sorting algorithms on predefind data | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | 2 |
| | | CO 4 | To create the data structures in specific areas like DBMS ,Compiler, Operating system. | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | 2 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 5 | 3CS4-06 Object Oriented Programming | CO 1 | Apply the various programming paradigms such as exception handling, polymorphism in software pattern | 2 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - |
| | | CO 2 | Analyze the C++ programs using different programming methodologies. | - | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - |
| | | CO 3 | Design the elements of the object oriented concepts in developing structured programs. | - | - | 3 | - | - | - | - | - | - | - | - | - | - | 2 | - |
| | | CO 4 | Investigate the real time applications using advance C++ concepts. | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | 3 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | 3CS4-07 Software Engineering | CO 1 | To Demostrate software life cycle models with respect to software enginneering principles. | 2 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 |
| | | CO 2 | To analyse cost estimation techniqye and risk analysis techniques in software engineering projects. | - | 2 | - | - | - | - | - | - | - | - | - | - | 2 | 3 | - |
| | | CO 3 | To Design Software requirement document (SRS) | - | - | 3 | - | - | - | - | - | - | - | - | - | 2 | 3 | - |
| | | CO 4 | To synthesize UML diagrams using the concepts of object oriented analysis in software development process. | - | - | - | 3 | - | - | - | - | - | - | - | - | 3 | - | - |

## Lab: CO-PO Mapping (Session 2022-23)

| S.No | Course Name | CO No | Course Outcomes (Students will able to... ) | PO 1: Engineering knowledge: Apply the knowledge of mathematic | PO 2: Problem analysis: Identify, formulate, review resea | PO 3: Design/development of solutions: Design solutions | PO 4: Conduct investigations of complex problems: Use | PO 5: Modern tool usage: Create, select, and apply appr | PO 6: The engineer and society: Apply reasoning informed | PO 7: Environment and sustainability: Understand the impa | PO 8: Ethics: Apply ethical principles and commit to | PO 9: Individual and team work: Function effectively as an indivi | PO 10: Communication: Communicate effectively on | PO 11: Project management and finance: Demonstr | PO 12: Life-long learning: Recognize the need for, and | PSO1- The ability to understand and apply knowledge of mathematics | PSO2- The ability to understand the evolutionary changes in compu | PSO3- The ability to employ modern computing tools and |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Data Structures and Algorithms Lab | LO1 | To Utilize searching and sorting algorithms on given | 2 | - | - | - | 2 | - | - | - | - | 2 | - | - | 2 | - | - |
| | | LO2 | To analyze the time and space efficiency of the data | - | - | - | - | - | 2 | - | - | - | - | - | - | 2 | - | - |
| | | LO3 | To Evalute traversing, insertion and deletion operations on Linear and non linear data structures | - | - | - | - | - | - | 2 | - | - | - | - | 2 | - | 2 | - |
| | | LO4 | To construct the solutions for real time applications | - | - | - | - | 2 | - | - | - | 2 | - | - | - | - | - | 3 |
| | | LO5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | |
| 2 | Object Oriented Programming Lab | LO1 | Students will able to apply the programming concepts such as inheritance, polymorphism | - | - | - | - | 2 | - | - | - | - | - | - | 2 | 3 | - | - |
| | | LO2 | Students will be able to distinguish the programming methodologies to implement programs | - | - | - | - | - | 2 | - | - | - | - | - | 2 | - | 2 | - |
| | | LO3 | Students will be able to explain the concepts to develop the structured programs. | - | - | - | - | - | - | 2 | - | - | - | - | 2 | - | - | 3 |
| | | LO4 | Students will be able to construct the solutions for real time problems | - | - | - | - | - | - | - | - | 2 | - | 3 | - | - | - | 3 |
| | | LO5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | |
| 3 | Software Engineering Lab | LO1 | Understand and explain the basic concepts of UML, design, test case implementation, and OOP concepts | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | LO2 | Discuss and analyze how to create software requirements specifications for a particular problem. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | LO3 | Create Data Flow Diagrams for different systems. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | LO4 | Understand and develop UML diagrams of various structures and behaviors. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | LO5 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | |
| 4 | Digital Electronics Lab | LO1 | Apply appropriate basic logic gates for verifying the | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - |
| | | LO2 | Demonstarte ability for recognizing any IC and its | - | 2 | - | - | - | - | - | - | - | - | - | - | 2 | - | - |
| | | LO3 | Design any basic gates by the use of universal gates. | - | - | 3 | - | - | - | - | - | - | - | - | - | - | 2 | - |
| | | LO4 | Identify the limitation of basic logic gates while desgining any SOP and POS logics. | - | - | - | 2 | - | - | - | - | - | - | - | - | 2 | - | - |
| | | LO5 | Design any sequential and combinational circuits using basic gates as well as by defined IC. | - | - | 2 | - | - | - | - | - | - | - | - | - | 2 | - | - |
| | | LO6 | Demonstrate the working of Digital Trainer kits and | - | - | - | - | 2 | - | - | - | - | - | - | - | - | 2 | - |
| | | LO7 | Debug a circuit to find a problem and suggest suitable | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 2 |
| | | LO8 | Able to work in a team for desgining and rectifying any errors in the digital circuit. | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 2 |
| | | | | | | | | | | | | | | | | | | |

# Course File Sample

**Outcome Based ProcessImplementationGuidelinesforFaculty**

**10.3 Labelling yourcoursefile**

- **Nameof faculty:**
- **Class- SEM:**
- **Branch:**
- **CourseCode:**
- **CourseName:**
- **Session:**

**10.4 List ofDocuments:**

1. **Vision&MissionStatementsof theInstitute**
2. **Vision&MissionStatementsof theDepartment**
3. **List of PEO, PSOandPOofdepartment**
4. **PersonalTimeTable**
5. **RTU Syllabus**
6. **Documentasperpoint no. 1-4 inguidelines**
7. **Course Plan**
8. **Document asperpoint no6-12 inguidelines**
9. **Document forCOAssessmentStage1: Asperpoint no13, upto13.2.5**
10. **Document forCOAssessmentStage2: Asperpoint no13, upto13.2.5, with comparisonto previous**
11. **Document forCOAssessmentStage3: Asperpoint no13, upto13.2.5, with comparisonto previous**
12. **DocumentforCOAttainment throughRTUComponent: Previous RTU Result:pointno. 13.3 upto13.3.2**
13. **Document for POattainment throughRTUComponent:Previous RTU Result:pointno. 13.4 upto13.4.2**
14. **Document for OverallAttainmentof POthroughCO:Asperpoint no13.5**
15. **Document for last threeyears(Repeatprocessfrom6-14 above): Comparativedata shouldbe includedincoursefile**
16. **LectureNotes**
17. **Copyof Assignmentsquestionsgivenfromtimetotime**
18. **Copyof TutorialSheetsgiven (if applicable)**
19. **RTUQuestionPaperswithanswer**
20. **InternalAssessmentQuestionPaperswithanswerfromtimetotime**
21. **Topicscovered beyond syllabus-References**
22. **Detailsof anyotheractivityanditsassessment throughrubricbe included**
23. **Mappingdepartment level/focus activitieswithyourCOs**

## 11 Outcome BasedProcessImplementationGuidelinesforFaculty

### CourseCO-PO,Preparation,Assessment Formats

**AcademicSession: 2021-2022** **Class:** **Semester:**

**Nameof theFaculty:**

**Subject:** **Subject Code:**

**This document is meant as guidelines for implementing Outcome based education system as a partof NBA process.**

1. **Vision&MissionofDepartment:Statement andMappingwith Institute Mission Here you have toincludedepartmentmission& visionstatementsandshow mappingofkeywordswithinstitutemission.**
2. **ProgramEducationalObjectives(PEOs): Statement andMappingwith Department Vision&Mission**
   **Hereyou havetoincludedepartmentPEOstatementsand showmappingof keywordswith department vision&mission.**
3. **ProgramSpecific Outcome(PSOs): Statement andMappingwith Department Vision&Mission**
   **Hereyou havetoincludedepartmentPSOstatementsandshowmappingof keywordswithdepartment vision&mission.**
4. **ProgramOutcome(POs): Statement andMappingwithPEOandPSO**
   **Hereyou havetoincludePOstatementsandshowmappingofkeywordswith departmentPEOs &PSOs.**
5. **CoursePlan(Deployment):**

(Pleasewritehowyou intend to cover thecontents:i.e., coverageof Unitsbylectures, guest lectures, design exercises, solvingnumericalproblems, demonstration of models, model preparation, or byassignments, etc.), **for example**

- **coverageof Unitsbylectures**
- **designexercises**
- **demonstrationofmodels**
- **byassignments**

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| Lecture No. | Lect. No. | Topics,Problems, Applications | CO/LO | TargetDateof Coverage | ActualDate ofCoverage | Ref. Book/Journal withPageNo. |
|---|---|---|---|---|---|---|
| 1. | 1 | Introduction of OS | CO1 | 12/07/2019 | 12/07/2019 | T1 Page121-126 |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |
| 5. | | | | | | |
| 6. | | | | | | |
| 7. | | | | | | |
| 8. | | | | | | |
| 9. | | | | | | |
| 10. | | | | | | |
| 11. | | | | | | |
| 12. | | | | | | |

ExampleT1:Principlesof OS, ByRamesh Soni, TataMGHill, Edition 2019

6. **CourseOutcomes:**Lookforstrongmappingofcoursewithspecific PO(2-3).Define GenericCourseOutcomes(max4to6)usingBlooms Taxonomy.(IncaseofLabCourse definegenericLab OutcomesLOand refer COasLOin thisdocument).

i. **3CSA101.1(CO1)-**
ii. **3CSA101.2(CO2)-**
iii. **3CSA101.3(CO3)-**
iv. **3CSA101.4(CO4)-**
v. **3CSA101.5(CO5)-**

7. **CO-PO-PSO Mapping: Mapping Levels: 1- Low, 2- Moderate, 3-Strong**
   **Firsttrytofindout2-3POthosearestronglyrelated toyoursubjectcontents.Go throughthe contentsandtryto formulate4-5CourseOutcomeasperbloom taxonomy.Map each COwith POand PSOas above.Whilemappingpleaserethink ifyoumapanyPOwith3,itmeansyouareplanningtodeliverthecontentsofthat levelandyouwillalsoexaminethestudentsat that level.**

| CO | PO | | | | | | | | | | | | PSO | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| CO1 | | | | | | | | | | | | | | | |
| CO2 | | | | | | | | | | | | | | | |
| CO3 | | | | | | | | | | | | | | | |
| CO4 | | | | | | | | | | | | | | | |
| CO5 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

**7.1 POStronglyMapped:(Example):**
**OPO2: Writefullstatement withkeywords highlighted oPO3: Writefullstatement withkeywords highlighted oPO4: Writefullstatement withkeywords highlighted**

**7.2 PO Moderately Mapped:(Example)**
**O PO1: Writefullstatement withkeywords highlighted**
**O PO11: Writefullstatement withkeywordshighlighted**
**7.3 POLowMapped:(Example)**
**OPO12: Writefullstatement withkeywordshighlighted**

**7.4 PSOStronglyMapped:(Example)**
**OPSO1 : Writefullstatementwithkeywordshighlighted**

**7.5 P S O ModeratelyMapped:(Example)**
**O PSO2: Writefullstatement withkeywordshighlighted**

**6.6 PSOLowMapped:(Example)**
**OPSO3: Writefullstatement withkeywordshighlighted**

8. **RulesforCO/LOAttainment Levels:(Targets)**

**Allthecoursesof yourdepartmentshouldbedividedinto threecategoriesA-MostDifficult course, B-Mediumlevelof Difficulty, C-Lowlevelof Difficulty–(Easy)**
**Accordingtodifficultylevel,youcandecidespecificrangeforCOattainmenttargetsfor Continuousassessment fromthefollowing table.**
**Rememberthat targetsfor internalassessment shouldbehigher.**



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| CourseCategory | Level3 | Level2 | Level1 |
|---|---|---|---|
| **A** | **60% of studentsgetting >60% marks** | **50-60% of students getting >60% marks** | **40-50% of students getting >60% marks** |
| **B** | **80% of studentsgetting >60% marks** | **60-80% of students getting >60% marks** | **40-60% of students getting >60% marks** |
| **C** | **90% of studentsgetting >60% marks** | **70-90% of students getting >60% marks** | **40-70% of students getting >60% marks** |

**9. EndTermRTUComponent: COAttainment Levels**

**Allthe coursesof yourdepartment shouldbedividedintothree categoriesA-Most Difficult course, B-Mediumlevelof Difficulty, C-Lowlevelof Difficulty–(Easy)**
**According to difficultylevelandthe resultsofpast 3-5 years, youcandecidespecific range forCOattainment targetsforRTUcomponent fromthefollowing table.**

| CourseCategory | Level3 | Level2 | Level1 |
|---|---|---|---|
| **A** | **50% of studentsgetting >60% marks** | **40-50% of students getting >60% marks** | **30-40% of students getting >60% marks** |
| **B** | **60% of studentsgetting >60% marks** | **40-60% of students getting >60% marks** | **30-40% of students getting >60% marks** |
| **C** | **80% of studentsgetting >60% marks** | **60-80% of students getting >60% marks** | **40-60% of students getting >60% marks** |
| | | | |

**Forthe specificCO/LOattainment levelsof your respective coursepleaseusetheabove tablesasreferenceaccording yoursubject difficulty levelandpreparefollowing table.**

| S. No. | CourseType | Attainment Level=1 | Attainment Level=2 | Attainment Level=3 |
|---|---|---|---|---|
| 1 | **TheoryCourses** Mid Semester Exams | | | |
| 2 | **TheoryCourses** UniversityExam | | | |
| 4 | **PracticalCourses** –Internal Exams | | | |
| 5 | **PracticalCourses** -UniversityExam | | | |
| 6 | **Assignments/UnitTest** | | | |
| 7. | **Anyother** | | | |

**10. COwiseAssessmentActivities (asMentionedin SessionPlan):**
**Youcanplan for each CO,activities/assessment toolsto beconducted/usedfor its achievement.**
**UseXtothoseyouselect forspecificCO. Removeallunusedcolumns.**

| | Activities | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CO** | **Pre MidI Test** | **Post MidI Test** | **Quiz1** | **Quiz 2** | **PreMid II Test** | **Post MidII Test** | **Assignment1** | **Assignment2** | **Workshop** | **Seminar** | **Project** | **Training** | **Discussion** | **Mid1** | **Mid2** | **Ind. visit** |
| **CO1** | | | | | | | | | | | | | | | | |
| **CO2** | | | | | | | | | | | | | | | | |
| **CO3** | | | | | | | | | | | | | | | | |
| **CO4** | | | | | | | | | | | | | | | | |
| **CO5** | | | | | | | | | | | | | | | | |
| **CO6** | | | | | | | | | | | | | | | | |

**IncaseofLabcoursesomeactivitiesareasfollows:**

| LO | Internal Practical exams | Laboratory Tests | Viva | Records | Project Presentation | Project Evaluation | External practical exams |
|---|---|---|---|---|---|---|---|
| **LO1** | | | | | | | |
| **LO2** | | | | | | | |
| **LO3** | | | | | | | |
| **LO4** | | | | | | | |

## 11. COwiseAssessmentActivities:

**Basedon CO-POmapping,determinetargetsfor each COasaverageof targetsof all relevant POs.**

| CO | PO | | | | | | | | | | | | Avg. | PSO | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | CO Targets | PSO1 | PSO2 | PSO3 |
| CO1 | | | | | | | | | | | | | | | | |
| CO2 | | | | | | | | | | | | | | | | |
| CO3 | | | | | | | | | | | | | | | | |
| CO4 | | | | | | | | | | | | | | | | |
| CO5 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |



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**12. Activity wiseAssessment Tools:**

**Thisgivesyougeneralizedviewofdifferent direct andindirect toolsthose canbe usedforassessment /achievementof CO/PO.(Decidewhichtoolsarerequiredforassessing aparticularCO/LOandinreferencetoCourseA, B, Cdifficulty level).**

| Sr. No. | Activity | Assessment Method | Tools | Weightage Marks | Recommendation |
|---|---|---|---|---|---|
| 1. | Pre-MidTerm1 | Direct | Marks | 10 | ForCO |
| 2. | Post-MidTerm1 | Direct | Marks | 10 | ForCO |
| 3. | Quiz1 | Direct | Marks | 10 | ForCO |
| 4. | Quiz2 | Direct | Marks | 10 | ForCO |
| 5. | PreMidTerm2 | Direct | Marks | 10 | ForCO |
| 6. | Post MidTerm2 | Direct | Marks | 10 | ForCO |
| 7. | MidTerm1 | Direct | Marks | 20 | ForCO |
| 8. | MidTerm2 | Direct | Marks | 20 | ForCO |
| 9. | Assignment 1 | Direct | Marks | 10 | ForCO |
| 10. | Assignment 2 | Direct | Marks | 10 | ForCO |
| 11. | Workshop | Indirect | Rubrics | 5 | ForLO |
| 12. | Seminar/SPL | Indirect | Rubrics | 5 | ForCO/LO |
| 13. | Project (MiniorNSP) | Indirect | Rubrics | 20 | ForLO |
| 14. | Discussion | Indirect | Rubrics | 5 | ForLO |
| 15. | Training | Indirect | Rubrics | 20 | ForLO |
| 16. | IndustrialVisit | Indirect | Rubrics | 20 | ForLO |
| 17. | Oranyotheractivity | Direct/ Indirect | Marks/ Rubrics | any | ForLO |
| 18. | | | | | |
| Notethat for every rubricsyou needto decideassessment criteria,rangeofmarksorweightage–abovevaluesare indicative | | | | | |

**13. COAssessment Process:**

**After everyactivity(Ideallyasperabovetable): (Frequencyof Assessment- Canbe takenasmonthly). Sotheassessment canbeforallactivities heldduring themonth. Dothefollowing.**

**13.1 AttainmentofCOs**

**13.1.1 AttainmentTableforCO1: 3CSA101.1**

| **CO1:3CSA101.1: Attainment Table(Columns) AsApplicableCO wise-Monthly** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Student** | **PreMidI Test 10** | **Quiz1 10** | **Assignment 10** | **Quiz1 10** | **WS 10** | **Training 10** | **Total (60)** | **%0f Marks** | **Levelof Attainment** |
| **Name1** | | | | | | | | | **3** |
| **Name2** | | | | | | | | | **2** |
| **Name3** | | | | | | | | | **1** |
| **Name4** | | | | | | | | | **2** |
| **Name5** | | | | | | | | | **1** |
| **Name6** | | | | | | | | | **2** |
| **----** | | | | | | | | | **--** |
| **------** | | | | | | | | | **--** |
| | **No.ofStudents attainedlevel3=** | | | | | **%ofStudents AttainedLevel3=** | | | |
| | **No.ofStudents attainedlevel2=** | | | | | **%ofStudents AttainedLevel2=** | | | |
| | **No.ofStudents attainedlevel1=** | | | | | **%ofStudents AttainedLevel1=** | | | |
| | **TargetAchieved= ?(Check Level3%attainment-IfNoFindGap)** | | | | | | | | |
| | **MarkXforabsent-Takeavg.ofallpresent** | | | | | | | | |

**(Repeat it forall otherCOs, (CO2– CO5))**

## 13.1.2CO-GapIdentifications

| | | | | | |
|---|---|---|---|---|---|
| **COs** | CO1 | CO2 | CO3 | CO4 | CO5 |
| Target | | | | | |
| Achieved | | | | | |
| Gap | | | | | |

**13.1.3 GapsIdentified:**

**Describewhat the reasons for gaps are**

**i.**

**ii.**

**OverallCOAttainmentTable: Example**

| **COs** | CO1 | CO2 | CO3 | CO4 | CO5 | Co6 |
|---|---|---|---|---|---|---|
| Attainmentlevel asper rules set | 3 | 1 | 3 | 3 | 3 | 3 |
| AverageCOattainment through internal assessment | **2.67** | | | | | |

**13.1.4: Activities Decidedto bridgethegap**

**Pleasedoanalyzewhetheryoucouldget improvement throughactivities decidedand conductedforimprovements. Reason shouldbenotedwhy /howit isimprovedornot.**

## 13.2 Attainmentof POs&PSO:

### 13.2.1 Target-ExpectedAttainmentof PObyattainmentof CO- Put allmappingsof 3, 2 and1.BasedonCO-POmapping,determinetargetsfor eachPOasaverageof targets of all relevantCOs.

| CO | PO | | | | | | | | | | | | PSO | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| 3CSA101.1 | | | | | | | | | | | | | | | |
| 3CSA101.2 | | | | | | | | | | | | | | | |
| 3CSA101.3 | | | | | | | | | | | | | | | |
| 3CSA101.4 | | | | | | | | | | | | | | | |
| 3CSA101.5 | | | | | | | | | | | | | | | |
| Obtain Average-PO/PSO Targets | Targets | Targets | Targets | Targets | Targets | Targets | Targets | Targets | Targets | Targets | Targets | Targets | Targets | Targets | Targets |

### 13.2.2 Attainmentof POs&PSOthroughCOasContinuousEvaluation:

**Put allattainment valuesofCOaspermappingswith3, 2, 1asevaluatedin13.1.1 (Frequency- Monthly)**

| CO | PO | | | | | | | | | | | | PSO | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| 3CSA101.1 | | | | | | | | | | | | | | | |
| 3CSA101.2 | | | | | | | | | | | | | | | |
| 3CSA101.3 | | | | | | | | | | | | | | | |
| 3CSA101.4 | | | | | | | | | | | | | | | |
| 3CSA101.5 | | | | | | | | | | | | | | | |
| ObtainAvg. PO/PSO Attainment | Achieved | Achieved | Achieved | Achieved | Achieved | Achieved | Achieved | Achieved | Achieved | Achieved | Achieved | Achieved | Achieved | Achieved | Achieved |

### 13.2.3 POGapIdentification:

| | PO | | | | | | | | | | | | PSO | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| Targets | | | | | | | | | | | | | | | |
| Achieved | | | | | | | | | | | | | | | |
| Gap | | | | | | | | | | | | | | | |

### 13.2.4 GapsIdentified:

**Describewhat the reasons for gap (for PO) are.**

**i.**

**ii.**

### 13.2.5 Activities Decidedto bridgethegap

**Pleasedoanalyzewhetheryoucouldget improvement throughactivities decidedand conductedforimprovements. Reason shouldbenotedwhy /howit isimprovedornot.**

**Repeat wholeprocessafteronemonth,Two months,andthreemonths. Plotbar chart forimprovement in CO,PO&PSO. (Everymonth)**

### 13.3 AttainmentofCOthrough RTUExam:

**Thismay be possible for previoussemesterresultssooverallattainment. Iffaculty ischanged, datawillbeevaluatedby concernedfacultywhotaughtandhandedoverto current faculty.If facultynot available, thencurrent faculty willdothesame.**

| **AttainmentofCO: 3CSA101:Subject:** | | | |
|---|---|---|---|
| **Student** | **RTUMarks (80)** | **%0f Marks** | **Levelof Attainment** |
| **Name1** | | | **3** |
| **Name2** | | | **2** |
| **Name3** | | | **1** |
| **Name4** | | | **2** |
| **Name5** | | | **1** |
| **Name6** | | | **2** |
| **----** | | | **--** |
| **------** | | | **--** |
| | | | |
| **No.ofStudentsattainedlevel3=** | | **% of StudentsAttainedLevel3=** | |
| **No.ofStudentsattainedlevel2=** | | **% of StudentsAttainedLevel2=** | |
| **No.ofStudentsattainedlevel1=** | | **% of StudentsAttainedLevel1=** | |
| **COAttainment= ?(Check Level3%attainment-IfNoFindGap)** | | | |
| **MarkXforabsent-Takeavg.ofallpresent** | | | |

### 13.3.1 AttainmentofCOthrough RTUComponent:

| | | | | | |
|---|---|---|---|---|---|
| **CO: Course Code: CourseName** | | | | | |
| Target | | | | | |
| Achieved | | | | | |
| Gap | | | | | |

### 13.3.1 GapsforCOattainmentthroughRTUComponent:

**AnalyzeRTUQuestion paperwithrespecttoCOsformulated,contentsdeliveredand studentsexamined,findout reasonsforgaps**

i.
ii.

**13.3.2 Actionto betaken:**

**Prepare recommendationsforimprovement inplanning & teaching forgapsidentified.**

**13.4 Attainmentof POthroughCO(RTU) Component**

**Put RTU Resultsaspertarget achievedonlyandmapping level, infollowing table**

| Attainmentof POthroughCO(RTU) Component | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CO** | **PO** | | | | | | | | | | | | **PSO** | | |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** | **PSO1** | **PSO2** | **PSO3** |
| **3CSA101** | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| Attainmentof POthroughCO(RTU) Component | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **3CSA101** | **PO** | | | | | | | | | | | | **PSO** | | |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** | **PSO1** | **PSO2** | **PSO3** |
| **Targets** | | | | | | | | | | | | | | | |
| Achieved | | | | | | | | | | | | | | | |
| Gap | | | | | | | | | | | | | | | |

**13.4.1 GapsinPOthroughCOfromRTUcomponent:**

**Analyze RTU Question paper with respect to COs formulated &mapped, contents deliveredandstudentsexamined,findout reasonsforgaps**

**Describewhat arethereasonsforgap i.**

**ii.**

**13.4.2 Actionto betaken:**

**Prepare recommendationsforimprovement inplanning & teaching forgapsidentified.**

**13.5 OverallAttainmentof PO&PSO: ThroughContinuous Assessment &RTU**

**While combining attainment through Continuous evaluation and RTU component, followingweightagebe considered.**

1. **InternalAssessment– Totalweightage-40%**
2. **RTUComponent------- Weightage– 60 %**

**Put allattainmentsinthefollowing tableandcompute.**

**13.5.1: Table1**

| | RTUComponent | | | InternalAssessment | | | | |
|---|---|---|---|---|---|---|---|---|
| **Student** | **RTUMarks (80)** | **%of Marks** | **60% Weightage X6/100 (A)** | **Overall CO (-----)** | **%of Marks** | **Weightage X4/100 (B)** | **Total (A+B)** | **Levelof Attainment** |
| **Name1** | | | | | | | | **3** |
| **Name2** | | | | | | | | **2** |
| **Name3** | | | | | | | | **1** |
| **Name4** | | | | | | | | **2** |
| **Name5** | | | | | | | | **1** |
| **Name6** | | | | | | | | **2** |
| **----** | | | | | | | | **--** |
| **------** | | | | | | | | **--** |
| | | | | | | | | |
| **No.ofStudentsattainedlevel3=** | | | | | **% of StudentsAttainedLevel3=** | | | |
| **No.ofStudentsattainedlevel2=** | | | | | **% of StudentsAttainedLevel2=** | | | |
| **No.ofStudentsattainedlevel1=** | | | | | **% of StudentsAttainedLevel1=** | | | |
| **POAttainment= ?(Check Level3%attainment-IfNoFindGap)** | | | | | | | | |
| **MarkXforabsent-Takeavg.ofallpresent** | | | | | | | | |

**OR**

**13.5.2: Table2**

| | RTU | | | Internal CO1/Activity1 (Weightage%) | | | Internal CO2/Activity2 (Weightage%) | | | Internal CO3/Activity3 (Weightage%) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Student** | **RTU Marks (80)** | **%0f Marks** | **60% Weightage X-----/100 A** | **Overall CO (-----)** | **%0f Marks** | **Weightage X--/100 B** | **Overall CO (-----)** | **%0f Marks** | **Weightage X--/100 C** | **Overall CO (-----)** | **%0f Marks** | **Weightage X--/100 D** | **Total (A+B+C+D)** | **Level of Attainment** |
| **Name1** | | | | | | | | | | | | | | **3** |
| **Name2** | | | | | | | | | | | | | | **2** |
| **Name3** | | | | | | | | | | | | | | **1** |
| **Name4** | | | | | | | | | | | | | | **2** |
| **Name5** | | | | | | | | | | | | | | **1** |
| **Name6** | | | | | | | | | | | | | | **2** |
| **----** | | | | | | | | | | | | | | **--** |
| **------** | | | | | | | | | | | | | | **--** |
| | | | | | | | | | | | | | | |

| | |
|---|---|
| **No.ofStudentsattainedlevel3= StudentsAttainedLevel3=** | **%of** |
| **No.ofStudentsattainedlevel2= StudentsAttainedLevel2=** | **% of** |
| **No.ofStudentsattainedlevel1= StudentsAttainedLevel1=** | **% of** |
| **POAttainment= ?(Check Level3%attainment-IfNoFindGap)** | |
| **MarkXforabsent-Takeavg.ofallpresent** | |

**13.5.3: OverallPO&PSOAttainment through Course:**
**Put Overall PO&PSOattainment aspermapping 3,2,1above:**

| **Attainmentof Overall POforSession2018-2019** | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CO** | **PO** | | | | | | | | | | | | **PSO** | | |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** | **PSO1** | **PSO2** | **PSO3** |
| **3CSA101** | | | | | | | | | | | | | | | |
| **PO Attainment** | | | | | | | | | | | | | | | |

**13.5.4: OverallGapsforAttainmentofPOandPSOfromtheCourse**
**Put Overall PO&PSOtargets&attainment aspermapping 3,2,1above:**

| **Attainment &Gapof Overall POSession----------** | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **3CSA101** | **PO** | | | | | | | | | | | | **PSO** | | |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** | **PSO1** | **PSO2** | **PSO3** |
| **Targets** | | | | | | | | | | | | | | | |
| Achieved | | | | | | | | | | | | | | | |
| Gap | | | | | | | | | | | | | | | |

**13.5.5. OverallGapsforCoursetaught:**
**Gothroughallgapsidentifiedaboveandsummarize.Describewhat the reasons are.**
**i.**
**ii.**

**13.5.6 Actionto betaken:**
**Preparerecommendationsforimprovementinplanning&teaching(Internal&RTU)for gapsidentified.DecideActivitiesto be conductedto bridgethegapsin COs.**

**Repeat wholeprocessafter Oneyearbefore, Twoyearbefore, andthreeyearbefore. Plotbar chartsforContinuous improvementscheckin CO, PO&PSO. (EveryYear).**

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# 12 File Formats

## 12.1 List of File Formats

i. Front Page of Course File
ii. ABC Analysis Format
iii. Blown-up Format
iv. Deployment Format
v. Zero Lecture Format
vi. Tutorial Format
vii. Assignment Format
viii. Lecture Note Format
ix. Mid Term Question Paper Format
x. Mid Term Practical Exam Format
xi. Evaluation Sheets Format
xii. Activity Report Format

## 12.2 Front Page of Course File

POORNIMA
COLLEGE OF ENGINEERING

TEACHING MANUAL

**COURSE:** _____

**SEMESTER:** _____

**SUBJECT:** _____

**SUB. CODE:** _____

**CONTENT: PGC Syllabus, Blown-up, Deployment, Zero Lectures, Detailed lecture notes with cover page, Tutorial/Home-Assignment Sheets**

_____

**SESSION: 20___-___**

**NAME OF FACULTY:** _____

**DEPARTMENT:** _____

**CAMPUS:** _____

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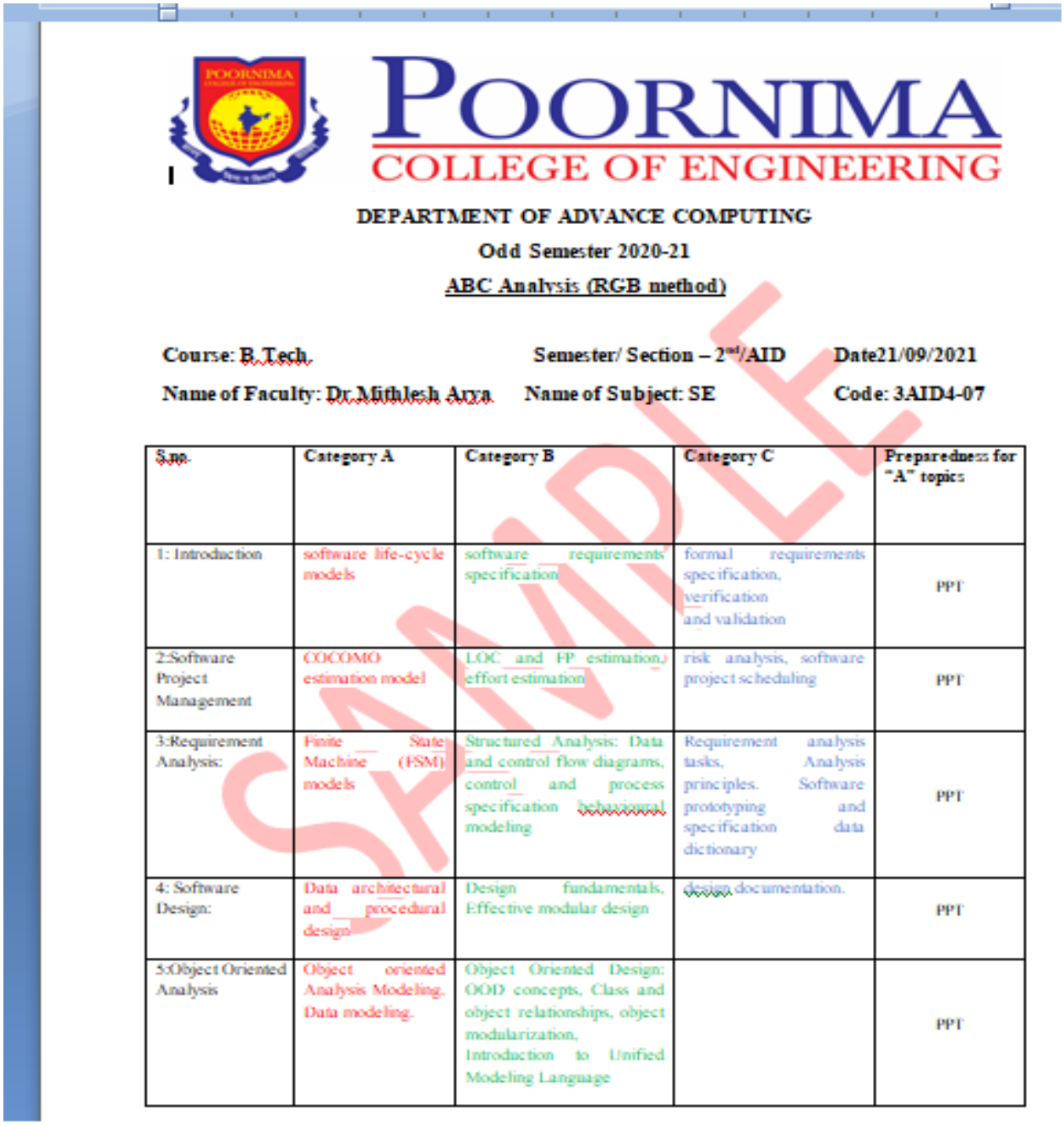
## 12.3 ABC Analysis Format



POORNIMA
COLLEGE OF ENGINEERING

**DEPARTMENT OF ADVANCE COMPUTING**

**Odd Semester 2020-21**

**ABC Analysis (RGB method)**

**Course: B.Tech** **Semester/ Section – 2nd/AID** **Date21/09/2021**

**Name of Faculty: Dr.Mithlesh Arya** **Name of Subject: SE** **Code: 3AID4-07**

| S.no. | Category A | Category B | Category C | Preparedness for "A" topics |
|---|---|---|---|---|
| 1: Introduction | software life-cycle models | software requirements specification | formal requirements specification, verification and validation | PPT |
| 2:Software Project Management | COCOMO estimation model | LOC and FP estimation, effort estimation | risk analysis, software project scheduling | PPT |
| 3:Requirement Analysis: | Finite State Machine (FSM) models | Structured Analysis: Data and control flow diagrams, control and process specification behavioural modeling | Requirement analysis tasks, Analysis principles. Software prototyping and specification data dictionary | PPT |
| 4: Software Design: | Data architectural and procedural design | Design fundamentals, Effective modular design | design documentation. | PPT |
| 5:Object Oriented Analysis | Object oriented Analysis Modeling. Data modeling. | Object Oriented Design: OOD concepts, Class and object relationships, object modularization, Introduction to Unified Modeling Language | | PPT |



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## 12.4 Blown-up Format

POORNIMA
COLLEGE OF ENGINEERING

**DEPARTMENT OF ADVANCE COMPUTING**

**COURSE BLOWN UP**

**Course: B.Tech.** | **Semester/ Section – AID** | **Date: 9 Aug2022**

**Name of Faculty: Dr.Mithlesh Arya** | **Name of Subject: Software Engineering** | **Code: 3AID04-07**

| S. No. | TOPIC AS PER SYLLABUS | BLOWN UP TOPICS ( up to 10 Times Syllabus) |
|---|---|---|
| 1. | **Introduction :** Objective, Scope and Outcome of subject | Zero Lecture |
| 2. | **Software development models**:<br>Software life-cycle models, software requirements specification, formal requirements specification, verification and validation. | 1.1 Software Development life cycle Phases<br>1.2 Waterfall model<br>1.2.1 Phases, Need<br>1.2.2 Advantages, Disadvantages<br>1.3 Prototype model and spiral model<br>1.3.1 Phases, Need<br>1.3.2 Advantages, Disadvantages<br>1.4 Iterative Enhancement Model<br>1.4.1 Phases, Need<br>1.4.2 Advantages, Disadvantages<br>1.5 Verification and Validation Model<br>1.5.1 Phases, Need<br>1.5.2 Advantages, Disadvantages<br>1.6 SRS, FRS<br>1.6.1 SRS Components |

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## 12.5 Deployment Format

POORNIMA COLLEGE OF ENGINEERING

SYLLABUS DEPLOYMENT

| Campus: PCE | Course: B.Tech. | Class/Section: AID | Date: 15.09.2022 |
|---|---|---|---|
| Name of Faculty: XYZ | | Name of Subject: OOP | Code: 3AID4-06 |

| S.No. | TOPIC AS PER BLOWNUP SYLLABUS | LECT. NO. | CO/LO | Target Date of Coverage | Actual Date of Coverage | Teaching method | Ref. Book/Journal with Page No. |
|---|---|---|---|---|---|---|---|
| 1 | **ZERO LECTURE** | L-1 | CO1 | 11/01/2022 | 11/01/2022 | PPT | |
| | ***Introduction to Unit :1*** | | | | | | |
| 2 | **Introduction of the lecture** | | | | | | |
| | ***Conclusion of the lecture*** | | | | | | |
| | ***Brief of next lecture*** | | | | | | |
| 3 | **Introduction of the lecture** | | | | | | |
| | ***Conclusion of the lecture*** | | | | | | |
| | ***Brief of next lecture*** | | | | | | |
| 4 | **Introduction of the lecture** | | | | | | |
| | ***Conclusion of the lecture*** | | | | | | |
| | ***Brief of next lecture*** | | | | | | |
| 5 | **Introduction of the lecture** | | | | | | |
| | ***Conclusion of the lecture*** | | | | | | |
| | ***Brief of next lecture*** | | | | | | |
| 6 | **Introduction of the lecture** | | | | | | |



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Sitapura, JAIPUR

**Zero Lecture Format**

POORNIMA
COLLEGE OF ENGINEERING

ZERO LECTURE

**Session: 20 - ( Sem.)**

**Campus: …… Course: …… Class/Section: ……**

**Name of Faculty: ……**

## Zero Lecture

**1). Name of Subject:** …… Code: ……

**2). Self-Introduction**:

*a). Name:*
*b). Qualification:*
*c). Designation:*
*d). Research Area:*
*e). E-mail Id: ……@poornima.org*
*f). Other details:* Information about areas of proficiency/ expertise such as subject taught, laboratory taken, Member of Professional body, Academic Proficiency, Book Authored, Paper published in National and International Conference/Journals etc.

**3). Introduction of Students:**

a*). Records of students in 12th*

| Sr. No. | Average result of 12th | Name of student scored highest marks | Marks 60% above (No. of students) | Marks between 40%-60% (No. of students) | English Medium Students (No.) | Hindi Medium Students (No.) | No. of Hostellers | No. of Day Scholar |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

b*). Name of 05 best students based on previous results: ……, ……, ……, ……, ……*

**4). Instructional Language: - ……%English; ……..% Hindi (English not less than 60%)**

**5). Introduction to subject: -** (Pl. separate out subject specific matter and general matter valid for all subjects and group/place them appropriately)

*a). Relevance to Branch:*
*b). Relevance to Society:*
*c). Relevance to Self:*
*d). Relation with laboratory:*
*e). Connection with previous year and next year:*

**6). Syllabus of Poornima Group of Colleges, Jaipur**

*a). Unit Name:*
*b). ABC analysis (RGB method) of unit & topics*

**7). Books/ Website/Journals & Handbooks/ Association & Institution:**

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*a). Recommended Text & Reference Books and Websites:*

| S. No. | Title of Book | Authors | Publisher | Cost (Rs.) | No. of books in Library |
|---|---|---|---|---|---|
| Text Books | | | | | |
| T1 | | | | | |
| T2 | | | | | |
| T3 | | | | | |
| Reference Books | | | | | |
| R1 | | | | | |
| R2 | | | | | |
| R3 | | | | | |
| Websites related to subject | | | | | |
| 1 | | | | | |
| 2 | | | | | |

*b). Journals & Handbooks:* - To give information about different Journals & Handbooks available in library related to the subject and branch.

*c). Associations and Institutions:* - To give information about different Associations and Institutions related to the subject and branch.

**8). Syllabus Deployment: -**

*a). Total weeks available for academics (excluding holidays) as per Poornima Foundation calendar-*

| | |
|---|---|
| Semester | |
| No. of Working days available(Approx.) | |
| No. of Weeks (Approx.) | |

- Total weeks available for special activities (as mentioned below)- 02 weeks (Approx.)

**Note: Individual faculty must calculate the exact no. of lectures available according to time table etc. after consultation with HOD.**

*b). Special Activities* (To be approved by HOD & Dean & must be mentioned in deployment):

- Open Book Test- Once in a semester
- Quiz - Once in a semester
- Special Lectures (SPL)- Minimum 10% of total no. of lectures including following
  - i. Smart Class by the faculty, who is teaching the subject
  - ii. SPL by expert faculty at PGC level
  - iii. SPL by expert from industry/academia (other institution)
- Revision classes (Solving Important Question Bank):- 1 class before Mid Term and 2 classes before End Term Exam

*c). Lecture schedule per week*

i). University scheme (L+T+P) = ...+....+.....

| Sr. No. | Name of Unit | No. of lectures | Broad Area | Degree of difficulty (High/Medium/Low) | Text/ Reference books |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |

*d). Introduction & Conclusion:* Each subject, unit and topic shall start with introduction & close with conclusion. In case of the subject, it is Zero lecture.

*e). Time Distribution in lecture class:* - Time allotted: 60 min.

i. First 5 min. should be utilized for paying attention towards students who were absent for last lecture or continuously absent for many days + taking attendance by calling the names of the students and also sharing any new/relevant information.

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ii. Actual lecture delivery should be of 50 min.
iii. Last 5 min. should be utilized by recapping/ conclusion of the topic. Providing brief introduction of the coming up lecture and suggesting portion to read.
iv. After completion of any Unit/Chapter a short quiz should be organized.
v. During lecture student should be encouraged to ask questions.

**Note:** Pl. ensure that each student is having Lecture Note Book. Also, write on the black board day and date, name of the teacher, name of subject with code, unit and lecture no. and topics to be covered at the beginning of each lecture and ensure that students write in lecture note book. Ask students to leave 4/5 pages blank for copying the note from fellow students in case of their absenteeism.

**9). Tutorial: - An essential component of Teaching- Learning process in Professional Education.**

Objective: - To enhance the recall mechanism.
To promote logical reasoning and thinking of the students.
To interact personally to the students for improve numerical solving ability.

a). *Tutorial processing:* - Tutorial sheet shall be provided to each students

I$^{st}$ Phase: - It is consisting of questions to be solved in the class assignment session in test mode on perforated sheet given in tutorial notebook and to be collected & kept by respective faculty for review & analysis (20 minutes).

II$^{nd}$ Phase: - Indicating/Initializing the weak issues/ drawback and Evaluating and providing the grade. Making a group with good student for assisting the weak students to explain/solve questions by every student on plain papers given in tutorial note book (20 minutes).

III$^{rd}$ Phase: - Solving/ explaining difficulties of lecture class and providing the new home assignment (20 minutes). To be done in tutorial note book.

b). *Home assignment shall comprise of two parts:*

Part (i) Minimum essential questions, which are to be solved and submitted by all with in specified due date.

Part (ii) Other important questions, which may also be solved and submitted for examining and guidance by teacher.

**10). Examination Systems:**

**A. FOR ALL THEORY COURSES:-**

| | |
|---|---|
| **a. Continuous Internal Evaluation (CIE)** | **20%** |
| -Assignment / Project / Papers / Essays / Class Participation | 10% |
| -Quiz / Class Test (Announced / Unannounced) | 5% |
| - Attendance and Discipline | 5% |
| **b. Mid Semester Exams (MSE) – Two** | **20%** |
| **c. End Semester Exam (ESE) - One** | **60%** |
| **TOTAL** | **100 %** |

**B. FOR ALL PRACTICAL (LABORATORY) COURSES:-**

| | |
|---|---|
| **a. Continuous Internal Evaluation (CIE)** | **40%** |
| -Performance (Lab Record, Viva, ) | 30% |
| -Attendance and Participation in laboratory work | 10% |
| **b. Mid Semester Exam (MSE)– Two** | **20 %** |
| **c. End Semester Exam (ESE) - One** | **40%** |
| **TOTAL** | **100 %** |

**11). Any other important point:**

Place & Date:

Name of Faculty with Designation

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## 12.6 Lecture Note Front page Format

POORNIMA
COLLEGE OF ENGINEERING

**LECTURE NOTES**

**Campus: ……..…. Course: ……..…….... Class/Section: ……..…. Date: ……..……..**

**Name of Faculty: ……..…….. Name of Subject: ……..…… Code: ……..…..**

**Date (Prep.): ……..…….. Date (Del.): ……..……..Unit No.:……..…..…..Lect. No: ……..……..……**

**OBJECTIVE:** To be written before taking the lecture (Pl. write in bullet points the main topics/concepts etc., which will be taught in this lecture)

**IMPORTANT & RELEVANT QUESTIONS:**

**FEED BACK QUESTIONS (AFTER 20 MINUTES):**

**OUTCOME OF THE DELIVERED LECTURE:** To be written after taking the lecture (Pl. write in bullet points about students' feedback on this lecture, level of understanding of this lecture by students etc.)

**REFERENCES:** Text/Ref. Book with Page No. and relevant Internet Websites:

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### 12.6.1 Detailed Lecture Note Format-1

POORNIMA
COLLEGE OF ENGINEERING

DETAILED LECTURE NOTES

| | | | |
|---|---|---|---|
| **Campus: ……** | **Course: ……** | **Class/Section: ……** | **Date: ……** |
| **Name of Faculty: ……** | | **Name of Subject: ……** | **Code: ……** |



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### 12.6.2 Detailed Lecture Note Format-2

POORNIMA
COLLEGE OF ENGINEERING

DETAILED LECTURE NOTES

PAGE NO. .....



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## 12.7 Assignment Format

POORNIMA
COLLEGE OF ENGINEERING

**Assignment Sheet-1**

**Campus:** PCE **Course:** B.Tech. **Class/Section:** III **Date:** .....

**Name of Faculty:** **Name of Subject:** **Code:**

**Date of Preparation:** ..... **Scheduled Date of Submission:** .....

| Q. No. | Questions | COs | POs | PSOs |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

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## 12.8 Tutorial Format

POORNIMA
COLLEGE OF ENGINEERING

**TUTORIAL SHEET**

**TUTORIAL SHEET** SHEET No.....

Campus: ..... Course: ..... Class/Section: ..... Date: .....

Name of Faculty: ..... Name of Subject: ..... Code: .....

Date of Tut. Sheet Preparation:..... Scheduled Date of Tut.:.....Actual Date of Tut. :.....

Name of Student:.....Scheduled & Actual Date of H.A. Submission:.....&.....

| | Questions | CO | PO |
|---|---|---|---|
| FIRST 20 MT. CLASS QUESTIONS | | | |
| 2 HRS. SOLVABLE HOME ASSIGNMENT (H.A.) QUESTIONS | | | |
| OTHER IMPORTANT QUESTIONS | | | |

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## 12.9 Mid Term/ End Term Practical Question Paper Format

**POORNIMA COLLEGE OF ENGINEERING, JAIPUR**

**II B.TECH. III Sem** **SET- A**

**FIRST MID TERM PRACTICAL EXAMINATION 2022-23**

**Code: 3AID4-07 Category: PCC Subject Name: Software Engineering**

**(BRANCH – Advance Computing**

**Max. Time: 60 Minutes** **Max. Marks: 22 + 8 (Viva) = 30**

**NOTE: - All questions are compulsory. Use of Design Data Book is allowed.**

| Q. No. | Question | Marks | LO | PO |
|---|---|---|---|---|
| | | | | |
| Q.1 | | | | |
| | | | | |
| Q.2 | | | | |
| | | | | |
| Q.3 | | | | |

**POORNIMA COLLEGE OF ENGINEERING, JAIPUR**

**II B.TECH. III Sem** **SET- B**

**FIRST MID TERM PRACTICAL EXAMINATION 2022-23**

**Code: 3AID4-07 Category: PCC Subject Name: Software Engineering**

**(BRANCH – Advance Computing**

**Max. Time: 60 Minutes** **Max. Marks: 22 + 8 (Viva) = 30**

**NOTE: - All questions are compulsory. Use of Design Data Book is allowed.**

| Q. No. | Question | Marks | LO | PO |
|---|---|---|---|---|
| | | | | |
| Q.1 | | | | |
| | | | | |
| Q.2 | | | | |
| | | | | |
| Q.3 | | | | |

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## 12.10 Mid Term Theory Question Paper Format

**POORNIMA COLLEGE OF ENGINEERING, JAIPUR**

**II B.TECH. (III Sem.)** **Roll No. _____**

**SECOND MID TERM EXAMINATION 2022-23**

**Code: 3AID1-01 Category: PCC Subject Name–ADVANCE ENGINEERING MATHEMATICS -I**

**(BRANCH – Advance Computing )**

**Course Credit: ___**

**Max. Time: 2 hrs.** **Max. Marks: 60**

**NOTE:- Read the guidelines given with each part carefully.**

**Course Outcomes (CO):**

At the end of the course the student should be able to:

CO1:
CO2:
CO3:
CO4:
CO5:
CO6:

| | PART - A: (All questions are compulsory) Max. Marks (10) | | | | |
|---|---|---|---|---|---|
| | | Marks | CO | BL | PO |
| Q.1 | | 2 | | | |
| | | | | | |
| Q.2 | | 2 | | | |
| | | | | | |
| Q.3 | | 2 | | | |
| | | | | | |
| Q.4 | | 2 | | | |
| | | | | | |
| Q.5 | | 2 | | | |
| | PART - B: (Attempt 4 questions out of 6) Max. Marks (20) | | | | |
| Q.6 | | 5 | | | |
| | | | | | |
| Q.7 | | 5 | | | |
| | | | | | |
| Q.8 | | 5 | | | |
| | | | | | |
| Q.9 | | 5 | | | |
| | | | | | |
| Q.10 | | 5 | | | |
| | | | | | |
| Q.11 | | 5 | | | |
| | | | | | |
| | PART - C: (Attempt 3 questions out of 4) Max. Marks (30) | | | | |
| Q.12 | | 10 | | | |
| | | | | | |
| Q.13 | | 10 | | | |
| | | | | | |
| Q.14 | | 10 | | | |
| | | | | | |
| Q. 15 | | 10 | | | |

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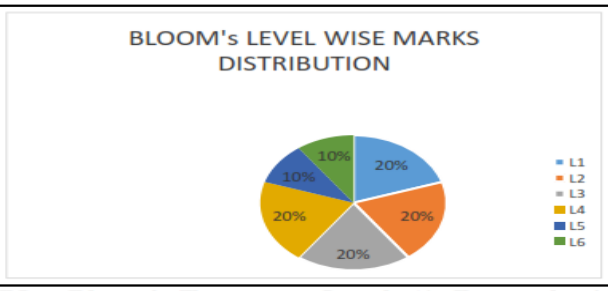


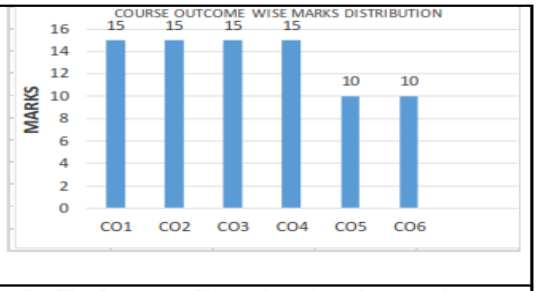


**BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analyzing, 5 – Evaluating, 6 - Creating)**
**CO – Course Outcomes; PO – Program Outcomes**

## 13. List of Important Links

| List of Important Links | | |
|---|---|---|
| **Sr. No.** | **Link** | **Particulars** |
| 1 | https://www.rtu.ac.in/index/ | Rajasthan Technical University |
| 2 | http://www.pce.poornima.org | Institute Website |
| 3 | http://www.pce.poornima.org/Downloads.html | Format of Students & Employees |
| 4 | https://www.turnitin.com/login_page.asp?lang=en_us | Plagiarism Checker |
| 5 | http://pcelibrary.poornima.org/ | PCE Digital Library |
| 6 | https://ndl.iitkgp.ac.in/ | National Digital Library of India (NDLI) |
| 7 | https://swayam.gov.in/ | SWAYAM MOOCs platform |
| 8 | https://www.vlab.co.in/ | Virtual Labs |
| 9 | https://spoken-tutorial.org/ | Spoken Tutorial |
| 10 | https://fossee.in/ | FOSSEE (Free/Libre and Open Source Software for Education) |
| 11 | https://www.sih.gov.in/ | Smart India Hackathon |
| 12 | https://www.swayamprabha.gov.in/ | 32 high quality educational channels through DTH on 24X7 basis. |
| 13 | https://ieeexplore.ieee.org/Xplore/home.jsp.You | IEEE All Society Periodicals Package |
| 14 | https://booksc.org/ | Link for Free for book and articles |
| 15 | https://jgateplus.com/home/ | J-gate Plus (JOURNALS -GATE) subscriptions |
| 16 | http://www.delnet.nic.in/ | Developing Library Network |
| 17 | https://dst.rajasthan.gov.in/content/dst-gov/en/home.html | Department of Science & Technology, Government of Rajasthan |

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| | | |
|---|---|---|
| 18 | https://ipindia.gov.in/index.htm | Official website of Intellectual Property India |
| 19 | http://pce.poornima.org/Downloads.html | Academic Formats Word File |
| Note:- Required Credentials can be taken from Respective Department Heads | | |