

Department of Advance Computing

CURRICULUM DELIVERY PLAN (CDP) Even Sem. 2023-24



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1 The Institution ensures effective curriculum planning and delivery through a wellplanned 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.

2 <u>Vision & Mission Statements</u>

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. (Advance Computing)

2.2 Vision & Mission Statements of the Programme B. Tech. (Advance Computing)

2.2.1 Vision of Department

Become most preferred department for the latest Advance Computing programs through creating appropriate teaching-learning and skill up gradation environment that fulfill current industry needs.

2.2.2 Mission of Department

- To create experiential learning environment that will enable students to compete globally in Advance Computing domain.
- To adapt latest technological tools and contribute significantly for the advancement of knowledge in Advance Computing application in industry, society and environment.
- To inculcate essential characteristic in the students for their all-round professional development, interaction with industry and society and lifelong learning.
- To create R & D infrastructure and centre of excellence in various Advance Computing sub domains.

2.2.3 PEO of the Department

Program Educational Objectives (PEOs) (ARTIFICIAL INTELLIGENCE)

- PEO1: Gradates will exhibit knowledge and expertise to design and develop solution for complex engineering problem of industry and society efficiently using Artificial Intelligence.
- PEO2: Gradates will be able to occupy lead position through their problem solving skills and lifelong learning ability.
- PEO3: Gradates will have strong professional ethics, social & moral values, entrepreneurial ability and interaction with society & industry.

Program Educational Objectives (PEOs) (ARTIFICIAL INTELLIGENCE (AI) AND DATA SCIENCE)

- PEO1: Gradates will exhibit expertise in the field of Artificial Intelligence & Data Science applications in the industries occupying lead position to deal with societal and environmental issues.
- PEO2: Gradates will possess good interaction ability in team and as individual with life-long learning ability to resolve societal problem using AI & DS.
- PEO3: Gradates will exhibit commitment towards the society and industry with high professional ethics and moral values

Program Educational Objectives (PEOs) (CYBER SECURITY)

- PEO1: Gradates will have expertise in protecting and securing the data and information using the cyber security concepts, tools & technologies.
- PEO2: Gradates will possess strong technical and entrepreneur skills to secure IT frameworks and carryout risk analysis with life-long learning ability.
- PEO3: Gradates will possess good communication skills while interacting with industry and society to protect the data and information with significant knowledge and implementation skills of cyber laws, professional ethics and leadership attributes.

2.2.4 Program Specific Outcome (PSOs)

ARTIFICIAL INTELLIGENCE

- PSO1: Apply the knowledge of Artificial Intelligence, machine learning, Human Computer Interaction in any societal, industrial and environmental application.
- PSO2: Demonstrate skills to design, develop and investigate complex real time problems using AI and its tools by working individual or in groups as a leader or member of the team following professional ethics and human values.
- PSO3: Adapt, analyze, investigate the problems and provide solutions for interdisciplinary problems using modern and advance AI tools and techniques possessing lifelong learning ability.

ARTIFICIAL INTELLIGENCE (AI) AND DATA SCIENCE

• PSO1: Apply knowledge of AI and data science in developing intelligent and context-aware applications/systems/ processes to facilitate industry and Society.

- PSO2: Demonstrate skills to learn, adapt and utilize various technologies and the tests for development of AI and Data Science based solutions to environmental/societal and industry problems.
- PSO3: Analyze and interpret huge and complex data individually and in team for development of sustainable solution possess ethical behavior/ critical thinking and lifelong learning.

CYBER SECURITY

- PSO1: Apply fundamental knowledge of computer science engineering including software development and testing, application design, development and deployment using artificial intelligence, tools and techniques for social, industrial and environmental applications.
- PSO2: Understand, design, development and deployment of Cyber Security solution to various emerging threats in using mobile and internet base technologies and tools.
- PSO3: Work individually and in team with the good communication skill, ethical behavior and develop completed and sustainability solution for cyber security and other computer security domain issues related to industry and society.

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 Advance Computing, 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-AC	Chairman, IQAC	Dr. Mahesh Bundele (Principal)	Poornima College of Engineering, Jaipur
2	Member Secretary	Chairman, DAB-AC	Dr. Kamlesh Gautam (Associate Professor)	Poornima College of Engineering, Jaipur
3	Faculty representative-1	Chairman, DAB-AC	Ms. Reena Sharma (Assistant Professor)	Poornima College of Engineering, Jaipur

4	Faculty representative-2	Chairman, DAB-AC	Mr. Gaurav Sharma (Assistant Professor)	Poornima College of Engineering, Jaipur
5	Faculty representative-3	Chairman, DAB-AC	Ms. Appoorva Bansal (Assistant Professor)	Poornima College of Engineering, Jaipur
6	Faculty representative-4	Chairman, DAB-AC	Ms. Neetu (Assistant Professor)	Poornima College of Engineering, Jaipur
7	Special Invitee	Chairman, DAB-AC	Dr. Rekha Nair (Professor)	Poornima College of Engineering, Jaipur
8	Alumni Representative-1	Chairman, DAB-AC	Mr. Niharika Sain	Nagarro, Jaipur
9	Alumni Representative-2	Chairman, DAB-AC	Mr. Manan Bhargav	Bellavita, Gurgaon
10	Student Representative	Chairman, DAB-AC	Ms. Parthivi Thakore	Poornima College of Engineering, Jaipur
11	Industry Representative	Chairman, DAB-AC	Mr. Sharthak Acharjee	Celebal Technologies
12	Parents Representative-1	Chairman, DAB-AC	Mr. Giriraj Kishore Sharma	C24, Shree niwas nagar, road no. 6,VKI area, Jaipur
13	Parents Representative-2	Chairman, DAB-AC	Mr. Kapil Johari	Sector – 3, Pratapnagar, Sanganer - 302033

3.1.4 Meeting Frequency & Objectives

Meeting	Meeting	Meeting	Meeting Objective
No.	Code	Month-Week	
1.	DAB-1	January First Week	 Consideration of gaps and proposed activities by PAC lastmeeting to be implemented in DAC and CDP. Prepares final draft of CDP and DAC to be proposed in upcoming IQAC meeting
2.	DAB-2	March Second Week	 Approval / Suggestions of proposals from last PAC Meeting. Revision of DAB Drafts for being proposed in upcoming GC
3	DAB-3	April First Week	 Draft preparation for DAC and CDP for upcoming semesterafter considering inputs from PAC. Review Semester closure draft from PAC.
4.	DAB-4	June Last Week	 Draft of PCE Academic Calendar and CDP proposed Previous session closure with gaps and feedback. Completion of ATR-2 for current semester based on last GCsessions and compiling it with ATR-1

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	Name of Members		
1	Chairman, PAC	Dr. Kamlesh Gautam, Associate Professor, Dept. of Advance Computing		
2	Member Secretary	Mr. Gaurav Sharma, Assistant Professor, AC		
3	Faculty Representative-1	Ms. Appoorva Bansal, Assistant Professor, AC		
4	Faculty Representative-2	Ms. Neetu, Assistant Professor, AC		
5	Faculty Representative-3	Ms. Reena Sharma, Assistant Professor, AC		
6	Faculty Representative-4	Dr. Saurabh Sandilya, Professor, AC		

3.2.4 Meeting Frequency & Objectives

Meetin	Meetin	Meeting	Meeting Objective	
g	g	Month-		
No.	Code	Week		
			Execution of Academic, Extra and Co-Curricular activities	
		Ionuomi	Regular assessment of Academic, Extra and Co-Curricular activities	
1.	PAC-1	January Last Week	Regular calculation of attainments	
		Last week	Revision of Academics gaps	
			 Prepared regular report of program for all assessment, attainment & gaps 	
			Execution of Academic, Extra and Co-Curricular activities	
	PAC-2	February	Regular assessment of Academic, Extra and Co-Curricular activities	
2.		PAC-2 First	First	Regular calculation of attainments
		Week	Revision of Academics gaps	
			Prepared regular report of program for all assessment, attainment & gaps	
		Echmony	Execution of Academic, Extra and Co-Curricular activities	
3	PAC-3	February	Regular assessment of Academic, Extra and Co-Curricular activities	
		Last Week	Regular calculation of attainments	

			Revision of academics gaps as previous attainment
			Assessment of activities required for being proposed in upcoming GC
			• Submit report to Governing Council about previous semester & planning of
			next semester.
			Inclusion of suggestions for revising gaps
			Execution of Academic, Extra and Co-Curricular activities according to
			suggestions in GC
		March	Regular calculation of attainments
4.	PAC-4	Second	Revision of academics gaps as previous attainment
T.	1710-4	Week	Regular assessment of Academic, Extra and Co-Curricular activities
		WCCK	• Identification and proposal of gaps and activities to be considered by DAB to
			prepare Department Academic Calendar and CDP for upcoming semester.
			Semester closure report draft to be prepared
			Elective proposals/CBCS
			• Incorporation of suggestions from IQAC and DAB meetings in execution of
			Semester activities
		April last Week	Execution of Academic, Extra and Co-Curricular activities
5.	PAC-5		Regular assessment of Academic, Extra and Co-Curricular activities
			Regular calculation of attainments
			Revision of Academics gaps
			Prepared regular report of program for all assessment, attainment & gaps
			Execution of Academic, Extra and Co-Curricular activities
		May Third	Regular assessment of Academic, Extra and Co-Curricular activities
6.	PAC-6	May Third	Regular calculation of attainments
		Week	Revision of Academics gaps
			Prepared regular report of program for all assessment, attainment & gaps
			Execution of Academic, Extra and Co-Curricular activities
			Regular assessment of Academic, Extra and Co-Curricular activities
7.	PAC-7	June	Regular calculation of attainments
/.	PAC-7	last Week	Revision of Academics gaps
			Prepared regular report of program for all assessment, attainment & gaps
			Draft preparation of Semester closure
			Report submission of Semester closure
		J,,1,,	• Identification and proposal of gaps and activities to be considered by DAB to
0	DACO	July	prepare Department Academic Calendar and CDP for upcoming semester.
8.	PAC-8	Second Week	• Feedback of last IQAC and suggestions for new semester to be implemented in
			CDP and DAC
			Elective proposals/CBCS

4. <u>List of Faculty Members & Technical Staff</u>

S. No.	College Emp. ID	Name of the Faculty Member	Exact Designation	Department
1	3682 Ms. DEEPIKA AGRAWAL		ASST PROFESSOR	ADVANCE COMPUTING
2	6450	MS. REENA SHARMA	ASST PROFESSOR	ADVANCE COMPUTING
3	3 6880 Mr. BHAGIRATH CHOUHAN		ASST PROFESSOR	ADVANCE COMPUTING
4	6935	Dr. KAMLESH GAUTAM	ASSOCIATE PROFESSOR	ADVANCE COMPUTING- HoD
5	6961	Mr. GAURAV SHARMA	ASST PROFESSOR	ADVANCE COMPUTING
6	7127	Mrs. ARCHANA BHARDWAJ	ASST PROFESSOR	ADVANCE COMPUTING
7	7257	MS. APPOORVA BANSAL	ASST PROFESSOR	ADVANCE COMPUTING
8	7272	MS. NEETU	ASST PROFESSOR	ADVANCE COMPUTING
9	8275	DR. KESHAV DEV GUPTA	ASSOCIATE PROFESSOR	ADVANCE COMPUTING
10	8285	DR. SAURABH SHANDILYA	PROFESSOR	ADVANCE COMPUTING
11	2833	Mr. DEEPAK BABERWAL	ASST PROFESSOR	ADVANCE COMPUTING
12	6846	MS. SONAM GOUR	ASST PROFESSOR	ELECTRONICS & COMMUNICATION ENGG

Institute Academic Calendar



FE	FEBRUARY 2024								
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					

1	MARCH 2024								
Sun Mon Tue Wed Thu						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			

	APRIL 2024								
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							

	MAY 2024											
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							

	JUNE 2023										
Sun	Mon	Tue	Wed	Thu	Fri	Sat					
30						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					

	JULY 2024											
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									



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ACADEMIC CALENDAR 2023-24*#

EVEN SEMESTER

January 2024

Monday, 8 First Day, B. Tech. VIII Sem. Thursday, 26 Republic Day Celebration

RTU THEORY EXAMINATION FOR III & V SEMESTER [ODD SEMESTER 2023-24]

February 2024

Monday, 19 First Day, B. Tech. IV & VI Sem.

RTU THEORY EXAMINATION FOR I SEMESTER [ODD SEMESTER 2023-24]

First Day, B. Tech. II Sem. Monday, 26

March 2024

Monday, 04 to Wednesday, 06 Thursday, 14 to Saturday 16 **During Second/Third Week**

First Mid Term Examination for B. Tech VIII Sem Aarohan -2024

April 2024

Wise Activity

Monday, 15 to Saturday, 20 Wednesday, 24

Thursday, 25 to Saturday, 27

Monday, 29 to Saturday, 04 (May)

First Mid Term Examination for B. Tech IV & VI Sem Last Teaching Day for B. Tech VIII Sem

Second Mid-Term Examination for B. Tech VIII Sem Monday, 29 to Wednesday 01 (May) End-Term Practical Exams for B. Tech VIII Sem First Mid Term Examination for B. Tech II Sem Farewell Function Batch 2020-24

May 2024

As Per RTU Schedule Saturday, 25 to Sunday, 26 End-Term Theory Exams for B. Tech VIII Sem Students' Council Meet

June 2024

Saturday, 8 Monday, 10 to Saturday, 15 Monday, 17 to Wednesday 19 **As Per RTU Schedule** Friday, 21

Monday, 24 to Saturday, 29

Last Teaching Day for B. Tech IV & VI Sem Second Mid-Term Examination for B. Tech IV & VI Sem End-Term Practical Examination for B. Tech IV & VI Sem End-Term Theory Examination for B. Tech IV & VI Sem Last Teaching Day for B. Tech II Sem Second Mid-Term Examination for B. Tech II Sem

July 2024

Monday, 01 to Wednesday 03 **As Per RTU Schedule**

End-Term Practical Examination for B. Tech II Sem End-Term Theory Examination for B. Tech II Sem

HOLIDAYS IN EVEN SEMESTER

- 01 January, Monday 02 January, Tuesday New Year
- **Makar Sakranti** 14 January, Sunday, 2024
- **Republic Day Celebration** 26 January, Friday - 27 January, Saturday, 2024 Holi 23 March, Saturday - 26 March, Tuesday, 2024 Eid-ul-Fiter 11 April, Thursday - 13 April, Saturday, 2024 Ambedkar Jayanti 13 April, Saturday - 14 April, Sunday, 2024 15 June, Saturday - 17 June, Monday, 2024 Eid-al-Adha
- *Subject to revision as per RTU notifications #Annual Alumni Meet in December 28, 2024

5 Department Activity Calendar

Poornima College of Engineering, Jaipur

Activity Calendar: Even Semester - Session 2024-24

(A) Academic Processes

,					
S. No.	Activity/ Process	I Sem.	B.Tech. IV Sem.	B.Tech. VI Sem.	B.Tech. VIII Sem.
A11	Date of Registration & start of regular classes for students	Wednesday, September 06, 24	Monday, February 19, 24	Monday, February 19, 24	Monday, January 08, 24
A2	l irientation programme	Wednesday, September 06, 24 to Saturday, September 16, 24			
A3		Monday,October 30, 24	Thursday, April 11, 24	-	Friday, March 01, 24
A4	I Mid Term Theory & Practical Exam	Monday, November 03. 24 to Tuesday.	_	Monday, April 15, 24 to Saturday. April 20, 24	Monday, March 04, 24 to Wednesday, March 06, 24
A5	Showing evaluated answer books of 1st Mid-term exam to students in respective classes	Upto Monday,	Upto Tuesday, April 23, 24	Upto Tuesday. April 23, 24	Upto Saturday, March 09, 24
A6	Last date of submission of Evaluated Answer Books and Mark of First Mid-term Theory & Practical exam to Exam and Secrecy Cell respectively	UptoThursday, November 30, 24	Upto Thursday, April 25, 24	Upto Thursday. April 25, 24	Upto Saturday, March 10, 24
A7	Date of submission of question papers by faculty members to secrecy for 2nd Mid- term	Monday, Janauary 03, 24	Tuesday, June 04. 2024	Tuesday, June 04. 2024	Thusday, April 18 2024
A8		To be declared later according to RTU Exam Schedule	Thursday, June 05, 24	Thursday, June 05, 24 - June Friday 06, 24	

		June Friday 06, 24
A9	Last Teaching Day	Friday, Janauary 12, Saturday, June 08, Wednesday, April 2024 2024 2024 24, 2024
A10	2nd Mid-term theory Practical Exams	Monday, Janauary 08, June 10-Monday, June 10-Thursday -Saturday, Saturday June 15, April 25 to Saturday Janauary 18, 2024 June 15, 2024 April 27, 2024
A11	End-Term Practic Exams	Monday, June 17-Monday, June 17-Monday, April 29, Wednesday June 19, 19, 2024 to Wednesday June 19, 2024 April, 01, 24
(B) Events and	l Activities	
B1	Orientation Program	
B2	ICT and Computin	ngDigital Literacy Skills Development: Integrating ICT Tools into the Curriculum:
В3	Career Counseling	
		Natural Language Processing (NLP) and Text Mining: Extracting Insights from Text Data- Celebal Technologies Ethical Horizons: Navigating
B4	MoU Activities	Integrity, Responsibility, and Impact in Professional Practice"
		Technology and Innovation: Exploring the impact of emerging technologies on various industries and professions.: Coding ninjas
		Career Paths in Data Science: Roles, Skills, and Professional Development: Rapid OPS
		Career Paths in Data Science: Roles, Skills, and Professional Development
B5	Alumni Session	Technology and Innovation: Exploring the impact of emerging technologies on various industries

		and professions.	
		Natural Language Processing (NLP) and Text Mining: Extracting Insights from Text Data	
B6	Industrial Visit		
B7	Seminar/Webinar		
В8	Expert Talk	Expert Lecture on: Beyond devices: The Evolution of Everyday Wearables	
В9	FDP and Technic Training Program fo Technical Assistant	FDP: A comprihensive exploration of cognitronics by unraveling technologies STTP: Microsoft Tools for Creating al Effective Teaching or and Learning Environment	
B10	Conference	<u> </u>	
B11	Professional Ethics	Ethical Communication: Transparency, Respect, and Authenticity	
B12	Human Values an UHV activity	Harmonizing Technology and Humanity: Ethics and Human Values in the Digital Age	
B13	Soft Skill	Stress Management Techniques for Computer Engineers: Maintaining Well- Being in a High- Pressure Environment	
B14	Gender Equity	Gendered Impacts of Technological Innovation: Ensuring	

		Equity in Emerging Technologies	
B15	COE Activity		
B24	Professional Societies Activities	ACM- FDP, STTP, Expert Talk, NDLI Session	
(C) Holidays			
C1	New Year	December 31 - Sunday, January 01, 2024	January Monday 01, 2024-Tuesday 02, 2024
C2	Makar Sakranti	Saturday, January 14, 2024	Saturday, January 14, 2024
C3	Celebration of Republic Day	•	Friday, January 26, 2024-Saturday, January 27, 2024
C4	Holi	• • • • • • • • • • • • • • • • • • • •	Saturday, March 23,2024-Tuesday, March, 26, 2024
C5	Eid-ul-Fiter	Thursday, June 29, 2024	Thursday, April 11,2024-Saturday, April 13, 2024
C6	Ambedkar Jayanti		Saturday, April 13,2024-Sunday, April 14, 2024
C7	Eid-al-Adha	As per RTU Examination Schedule	Saturday, June 15,2024-Monday, June 17, 2024
"स्वच्छ भारत [.]	सम्पन्न भारत"		

6 Teaching Scheme

6.1 RTU Teaching Scheme



RAJASTHAN TECHNICAL UNIVERSITY, KOTA

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

			THEO	RY							
SN	Categ		Course	1 -	onta s/we		Mark	s			Cr
	ory	Code	Title	L	т	P	Exm Hrs	IA	ете	Total	
1	BSC	4CAI2-01	Discrete Mathematics Structure	3	О	0	3	30	70	100	3
2	HSMC	4CAI1-03/ 4CAI1-02	Managerial Economics and Financial Accounting / Technical Communication	2	0	0	2	30	70	100	2
3	ESC	4CAI3-04	Microprocessor & Interfaces	3	О	О	3	30	70	100	3
4		4CAI4-05	Database Management System	3	0	0	3	30	70	100	3
5	PCC	4CAI4-06	Theory of Computation	3	0	0	3	30	70	100	3
6		4CAI4-07	Data Communication and Computer Networks	3	0	0	3	30	70	100	3
			Sub Total	17	0	0					17
			PRACTICAL &	SESS	ION	AL					
7		4CAI4-21	Microprocessor & Interfaces Lab	0	О	2		60	40	100	1
8	PCC	4CAI4-22	Database Management System Lab	0	О	3		60	40	100	1.5
9		4CAI4-23	Network Programming Lab	0	О	3		60	40	100	1.5
10		4CAI4-24	Linux Shell Programming Lab	0	О	2		60	40	100	1
11		4CAI4-25	Java Lab	0	0	2		60	40	100	1
12	SODE CA	4CAI8-00	Social Outreach, Discipline & Extra Curricular Activities							100	0.5
			Sub- Total	0	0	12					6.5
		TO	TAL OF IV SEMEESTER	17	0	12					23.5

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. (CAI) for students admitted in Session 2021-22 onwards.



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

			THEO	RY							
CN			Course	1 -	onta		Mark	s			Cr
SN	Categ ory		hrs/week		eek						
	Oly	Code	Title	L	Т	P	Exm Hrs	IA	ETE	Total	
1	BSC	4AID2-01	Discrete Mathematics Structure	3	0	0	3	30	70	100	3
2	нѕмс	4AID1- 03/ 4AID1-02	Managerial Economics and Financial Accounting /Technical Communication	2	0	0	2	30	70	100	2
3	ESC	4AID3-04	Microprocessor & Interfaces	3	О	0	3	30	70	100	3
4		4AID4-05	Database Management System	3	0	0	3	30	70	100	3
5	PCC	4AID4-06	Theory of Computation	3	О	0	3	30	70	100	3
6		4AID4-07	Data Communication and Computer Networks	3	О	О	3	30	70	100	3
			Sub Total	17	0	0					17
			PRACTICAL &	CECC	STOR	TAT					
7		4AID4-21	Microprocessor & Interfaces Lab	0	0	2		60	40	100	1
8		4AID4-22	Database Management System Lab	О	О	3		60	40	100	1.5
9	PCC	4AID4-23	Network Programming Lab	О	О	3		60	40	100	1.5
10		4AID4-24	Linux Shell Programming Lab	О	О	2		60	40	100	1
11		4AID4-25	Java Lab	0	0	2		60	40	100	1
12	SODE CA	4AID8-00	Social Outreach, Discipline & Extra Curricular Activities							100	0.5
			Sub- Total	0	0	12					6.5
		TO	TAL OF IV SEMEESTER	17	0	12					23.5

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. (AID) for students admitted in Session 2021-22 onwards.



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

			тнео	RY							
SN	Categ		Course	1	onta		Mark	s			Cr
	ory	Code	Title	L	T	P	Exm Hrs	IA	ЕТЕ	Total	
1	BSC	4CCS2-01	Discrete Mathematics Structure	3	О	О	3	30	70	100	3
2	HSMC	4CCS1-03/ 4CCS1-02	Managerial Economics and Financial Accounting /Technical Communication	2	0	0	2	30	70	100	2
3	ESC	4CCS3-04	Microprocessor & Interfaces	3	0	0	3	30	70	100	3
4		4CCS4-05	Database Management System	3	0	0	3	30	70	100	3
5	PCC	4CCS4-06	Theory of Computation	3	0	0	3	30	70	100	3
6		4CCS4-07	Data Communication and Computer Networks	3	0	0	3	30	70	100	3
			Sub Total	17	О	0					17
			DD 4 CETC 4 T . 0	~~~							
7		4CCS4-21	PRACTICAL & Microprocessor & Interfaces Lab	0	0	2		60	40	100	1
8	PCC	4CCS4-22	Database Management System Lab	О	О	3		60	40	100	1.5
9		4CCS4-23	Network Programming Lab	0	0	3		60	40	100	1.5
10		4CCS4-24	Linux Shell Programming Lab	0	0	2		60	40	100	1
11		4CCS4-25	Java Lab	0	0	2		60	40	100	1
12	SODE CA	4CCS8-00	Social Outreach, Discipline & Extra Curricular Activities							100	0.5
			Sub- Total	0	0	12					6.5
		TOT	AL OF IV SEMEESTER	17	0	12					23.5

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. (CCS) for students admitted in Session 2021-22 onwards.



Teaching & Examination Scheme B.Tech.: Artificial Intelligence and Data Science 3rd Year - VI Semester

			THE	ORY							
~			Course		onta						
SN	Categ			hrs	/w€	ek		Ma	rks	1	Cr
	ory	Code	Title	L	т	P	Exam Hrs	IA	ETE	Total	Cr
1	ESC	6AID3-01	Digital Image Processing	2	О	0	3	30	70	100	2
2		6AID4-02	Machine Learning	3	0	О	3	30	70	100	3
3		6AID4-03	Information Security Systems	2	0	0	3	30	70	100	2
4	PCC	6AID4-04	Computer Architecture and Organization	3	0	0	3	30	70	100	3
5		6AID4-05	Principals of Artificial Intelligence	2	О	0	3	30	70	100	2
6		6AID4-06	Cloud Computing	3	0	0	3	30	70	100	3
7		6AID5-11	Artificial Neural Network								
8	PEC	6AID5-12	Natural Language Processing (NLP)	2	О	0	3	30	70	100	2
9		6AID5-13	Nature Inspired Computing								
			Sub Total	17	0	0					17
			PRACTICAL 6	& SE	SSIC	NAL	,			,	
8		6AID4-21	Digital Image Processing Lab	О	0	3	2	60	40	100	1.5
9	PCC	6AID4-22	Machine Learning Lab	О	0	3	2	60	40	100	1.5
10		6AID4-23	Python Lab	0	0	3	2	60	40	100	1.5
11		6AID4-24	Mobile Application Development Lab	О	0	3	2	60	40	100	1.5
12	SODE CA	6AID8-00	Social Outreach, Discipline & Extra Curricular Activities						100	100	0.5
			Sub- Total	0	0	12					6.5
		ТОТ	AL OF III SEMESTER	17	0	12					23.5

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. (AID) for students admitted in Session 2021-22 onwards.



Teaching & Examination Scheme B.Tech Computer Science and Engineering (Cyber Security) $3^{\rm rd}$ Year - VI Semester

			THEC	RY							
SN	Catagory		Course	1 -	onta			M	arks		Cr
SIN	Category	Code	Title	L L	s/we	eek P	Exam Hrs	IA	ЕТЕ	Total	l
1	ESC	6CCS3-01	Digital Image Processing	2	0	0	3	30	70	100	2
2		6CCS4-02	Machine Learning	3	0	О	3	30	70	100	3
3		6CCS4-03	Information Security Systems	2	0	0	3	30	70	100	2
4	PCC	6CCS4-04	Computer Architecture and Organization	3	0	0	3	30	70	100	3
5		6CCS4-05	Artificial Intelligence	2	0	0	3	30	70	100	2
6		6CCS4-06	Block Chain & Cyber Security	3	0	0	3	30	70	100	3
7		6CCS5-11	Cyber Forensic								
8	PEC	6CCS5-12	Intrusion detection System	2	0	0	3	30	70	100	2
9		6CCS5-13	Ethical Hacking and Digital Forensics								
			Sub Total	17	0	0		210	490	700	17
			PRACTICAL &	CEC	CION	JAI					
10		6CCS4-21	Digital Image Processing Lab	0	0	2	2	60	40	100	1
11	PCC	6CCS4-22	Machine Learning Lab	0	0	3	2	60	40	100	2
12		6CCS4-23	Python Lab	0	0	3	2	60	40	100	2
13		6CCS4-24	Mobile Application Development Lab	0	0	2	2	60	40	100	1
14	SODECA	6CCS8-00	Social Outreach, Discipline & Extra Curricular Activities						100	100	0.5
			Sub- Total	0	0	12		240	260	500	6.5
		TOTA	AL OF VI SEMESTER	17	0	12		450	750	1200	23.5

L: Lecture, T: Tutorial, P: Practical, Cr: Credits ETE: End Term Exam, IA: Internal Assessment

Scheme of 3rd Year B. Tech. (CCS) for students admitted in Session 2021-22 onwards.

7 PCE Teaching Scheme

Poornima College of Engineering, Jaipur Department of Advance Computing, Jaipur Teaching Scheme of EVEN Semester 2023-24 (CSE)

								ornima College o										
							Tea	ching Scheme of	Even S	en	nester	2023-2	24					
Worki ng Group		Se m	Studen ts		Sc	he	ching eme Cred it	Course Name	Subjec	of	No. of Batch	170	al Loa d	Loa d	al Loa d	Total Load (L+T+ P)	Teachi ng Dept.	Cat.
CS/IT	2	4	64	AC	31	0		Discrete Mathematics Structure	4AID2 -01	3	6	F	9	6	0	15	Maths	BSC
CS/IT	2	4	64	AC	20	0	2		4AID1 -02	3	6	F	6	0	0	6	English	HSM C
CS/IT	2	4	64	AC	30	0	3	Microprocessor & Interfaces	4AID3 -04	3	6	F	9	0	0	9	ECE	ESC
CS/IT	2	4	64	AC	30	0	3	Database Management System	4AID4 -05	3	6	F	9	0	0	9	CS	PCC
CS/IT	2	4	64	AC	30	0	3		4AID4 -06	3	6	F	9	0	0	9	CS	PCC
CS/IT	2	4	64	AC	30	0		Data Communication and Computer Networks	4AID4 -07	3	6	F	9	0	0	9	CS	PCC
CS/IT	2	4	64	AC	00	2	1	Microprocessor & Interfaces Lab	4AID4 -21	3	6	Т	0	0	12	12	ECE	ESC
CS/IT	2	4	64	AC	00)3		Database Management System Lab	4AIDI 4-22	3	6	Т	0	0	18	18	CS	PCC
CS/IT	2	4	64	AC	00	3	115	Programming Lab		3	6	Т	0	0	18	18	CS	PCC
CS/IT	2	4	64	AC	00	2		Programming Lab			6	Т	0	0	12	12	CS	NA
CS/IT	2	4	64	AC	00	2	1	Java Lab	4AID4 -25	3	6	Т	0	0	12	12	CS	NA
																129		

														T				
CS/IT	3	6	221	CSE	Ξ 2	20	02	Digital Image Processing	6CS3- 01	3	6	F	6	0	0	6	CS	ESC
CS/IT	3	6	221	CSE	Ξ 3	30	03	Machine Learning	6CS4- 02	3	6	F	9	0	0	9	CS	PCC/ PEC
CS/IT	3	6	221	CSE	Ξ 3	30	02	Information Security System	6CS4- 03	3	6	F	9	0	0	9	CS	PCC/ PEC
CS/IT	3	6	221	CSE	Ξ 3	30	03	Computer Architecture and Organization	6CS4- 04	3	6	F	9	0	0	9	CS	PCC/ PEC
CS/IT	3	6	221	CSE	Ε 2	20	02	Artificial Intelligence/Princi ples of AI	6CS4- 05	3	6	F	6	0	0	6	CS	PCC/ PEC
CS/IT	3	6	221	CSE	Ξ 3	80	03	Cloud Computing/Block Chain in Cyber Security		3	6	F	9	0	0	9	CS	PCC/ PEC
CS/IT	3	6	221	CSF	Ε 2	20	02	Elective*(Cyber electives are different from AI and AIDS)	6CS5- 11	3	6	F	8	0	0	8	CS	PCC/ PEC
CS/IT	3	6	221	CSE	Ξ (0	31.5	Digital Image Processing Lab	6CS4- 21	3	6	Т	0	0	18	18	ECE	PCC
CS/IT	3	6	221	CSE	Ξ (0	31.5	Machine Learning Lab	6CS4- 22	3	6	Т	0	0	18	18	CS	PCC
CS/IT	3	6	221	CSE	Ξ (00	31.5	Python Lab	6CS4- 23	3	6	Т	0	0	18	18	CS	PCC
CS/IT	3	6	221	CSE	Ε (00	31.5	Mobile Application Development Lab	6CS4- 24	3	6	Т	0	0	18	18	CS	PCC
																128		

7.1 Marking Scheme

	MARKING SCHEME FOR PRACTICAL EX	I+II M	lid Term	Exam	Atten	& Perform	nance.	ECY CEL	I Term E	xam	мах.
1FY2-20 1FY2-21	SUBJECT Engineering Physics Lab Engineering Chemistry Lab	30 30	70 10	Total 40 40	10 10	Perf.	Total 40 40	30 30	10 10	40 40	100 100
1FY1-22 1FY1-23 1FY3-24	Language Lab Human Values Activities & Sports	30 30	10	40 40	10	30 30	40 40 40	30 30	10	40	100
1FY3-24 1FY3-25 1FY3-26	Computer Programming Lab Manufacturing Practices Workshop Basic Electrical Engineering Lab	30 30 30	10 10 10	40 40 40	10 10 10	30 30 30	40 40 40	30 30 30 30	10 10 10	40 40 40	100 100 100
1FY3-27 1FY3-28 1FY3-29	Basic Civil Engineering Lab Computer Aided Engineering Graphics	30 30	10 10	40 40	10 10	30 30	40 40	30	10	40	100
1FY3-29 3CE4-21 3CE4-22 3CE4-23	Computer Aided Machine Drawing Surveying Lab Fluid Mechanics Lab	30 30 30	10 10	40 40 40	10 10	30 30 30	40 40 40	30 30 30	10 10 10	40 40 40	100 100 100
3CE4-23 3CE4-24	Computer Aided Civil Engineering Drawing Civil Engineering Maretials Lab	30 30 30	10 10 10	40 40 40	10 10 10	30 30 30	40 40 40	30 30 30	10 10 10	40 40 40	100 100 100
3CE4-24 3CE4-25 3CE7-30 3CS4-21	Geology Lab Training Seminar Data Structures and Algorithms Lab	30	10	40	10	30	40	30 30	10 10	40 40	100
3CS4-22 3CS4-23 3CS4-24	Object Oriented Programming Lab Software Engineering Lab Digital Electronics Lab	30 30 30	10 10 10	40 40 40	10 10 10	30 30 30	40 40 40	30 30 30	10 10 10	40 40 40	100 100 100
3CS7-30 3AID4-21	Training Seminar Dara Shuctures and Algorithms Lab Object Oriented Programming Lab	30 30	10 10	40 40	10 10	30 30	40 40	30 30 30	10 10 10	40 40 40	100 100 100
3AID4-23 3AID4-24	Software Engineering Lab Digital Electronics Lab	30 30	10 10	40 40 40	10	30 30	40 40	30	10	40	100
3AID7-30 3CAI4-21 3CAI4-22	Industrial Training Dara Shuctures and Algorithms Lab Object Oriented Programming Lab	30 30	10	40 40	10	30 30	40	30 30 30	10 10	40 40 40	100 100 100
3CAI4-22 3CAI4-23 3CAI4-24 3CAI7-30	Software Engineering Lab Digital Electronics Lab Industrial Training	30 30 30	10 10	40 40	10 10 10	30 30 30	40 40 40	30 30 30 30	10 10 10	40 40 40 40	100 100 100
30054-21 30054-22	Data Structures and Algorithms Lab Object Oriented Programming Lab	30 30	10 10	40 40	10 10	30 30	40 40	30	10 10	40 40	100
3CCS4-23 3CCS4-24 3CCS7-30	Software Engineering Lab Digital Electronics Lab Industrial Training	30 30	10 10	40 40	10 10	30 30	40 40	30 30 30	10 10	40 40 40	100 100
3CSR4-21 3CSR4-22	Data Structures and Algorithms Lab Object Oriented Programming Lab	30 30 30	10 10	40 40 40	10 10 10	30 30	40 40 40	30 30	10 10	40 40 40	100
3CSR4-23 3CSR4-24 3CSR7-30	Software Engineering Lab Digital Electronics Lab Industrial Training	30	10 10	40	10	30	40	30 30 30	10 10 10	40 40	100 100 100
3EC4-21 3EC4-22 3EC4-23	Electronics Devices Lab Digital System Design Lab Signal Processing Lab	30 30 30	10 10 10	40 40 40	10 10	30 30 30	40 40 40	30 30 30	10 10 10	40 40 40	100 100 100
3EC3-24	Computer Programming Lab-I Training Seminar Analog Electronics Lab	30	10	40 (10	30	40	30 30	10	40	100 100 100
3EE4-21 3EE4-22 3EE4-23	Electrical Machine-I Lab Electrical dirouit design Lab	30 30	10 10	40 40	10	30 30	40 40	30 30	10 10 10	40 40 40	100
3EE7-30 3IT4-21 3IT4-22	Training Seminar Data Structures and Algorithms Lab Object Oriented Programming Lab	30 30	10	40 40	10 10	30 30	40 40	30 30 30	10 10 10	40 40 40	100 100 100
3 T4-22 3 T4-23 3 T4-24 3 T7-30	Software Engineering Lab Digital Electronics Lab Training Seminar	30 30	10 10	40 40	10 10	30 30	40 40	30 30 30 30	10	40 40 40	100 100 100
3ME4-21 3ME4-22 3ME4-23	Machine drawing practice Materials Testing Lab Basic Mechanical Engineering Lab	30 30 30	10 10	40 40	10	30 30	40 40	30	10	40 40	100
3ME4-23 3ME4-24 3ME7-30	Basic Mechanical Engineering Lab Programming using MAT LAB Training Seminar	30 30	10 10	40 40	10 10	30 30	40 40	30 30 30	10 10 10	40 40 40	100 100 100
5CE4-21	Concrete Structures Design Geotechnical Engineering Lab	30 30	10 10	40 40 40	10 18	30 30	40 40 40	30 30	10 10	40 40	100 100
5CE4-22 5CE4-23 5CE7-30 5CS4-21	Water Resource Engineering Design Industrial Training Computer Graphics & Multimedia Lab	30	10	40	10	30	40	30 30 30	10 10 10	40 40 40	100 100 100
5CS4-21 5CS4-22 5CS4-23 5CS4-24	Compiler Design Lab Analysis of Algorithms Lab Advance Java Lab	30 30 30	10 10 10	40 40 40	10 10	30 30 30	40 40 40	30 30 30	10 10 10	40 40 40	100 100 100
5CS7-30 5AID4-21	Industrial Training Computer Graphics & Multimedia Lab	30	10 10	40 40	10	30	40 40	30	10	40 40 40	100 100 100
5AID4-23 5AID4-24	Compiler Design Lab Analysis of Algorithms Lab Advance Jaya Lab	30 30 30	10 10	40 40 40	16 10 10	30 30	40 40	30 30 30 30	10 10 10	40	100
5AID7-30 5CAI4-21 5CAI4-22	Industrial Training Computer Graphics & Multimedia Lab Compilar Design Lab	30 30	10	40 40	10 10	30	40	30 30 30	10 10	40 40 40	100 100 100
5CAI4-23	Analysis of Aldonthms Lab Advance Java Lab Industrial Training	30 30	10 10	40 40	10 10	30 30	40 40	30 30 30	10 10	40 40 40	100 100 100
50CS4-21 50CS4-22 50CS4-23	Computer Graphics & Multimedia Lab Compiler Design Lab	30 30 30	10 10	40 40	10 10 10	30 30	40 40	30 30 30	10	40	100 100 100
50034-24 50037-30	Analysis of Algorithms Lab Advanced Java Lab Industrial Training	30 30	10 10	40 40	10 10	30 30	40 40	30 30 30	10 10	40 40 40	100 100
5CSR4-21 5CSR4-22 5CSR4-23	Computer Graphics & Multimedia Lab Compiler Design Lab	30 30 30	10 10 10	40 40 40	10 10 10	30 30 30	40 40 40	30 30 30	10 10 10	40 40 40	100 100 100
5CSR4-24 5CSR7-30	Analysis of Algorithms Lab Advance Java Lab Industrial Training	30	10	40	10	30	40	30 30	10	40 40	100
5EC4-21 5EC4-22 5EC4-23	RF Simulation Lab Digital Signal Processing Lab Microway e Lab	30 30 30	10 10 10	40 40 40	10 10	30 30	40 40 40	30 30	10 10	40 40 40	100 100
5EC4-23 5EC7-30 5EE4-21	Industrial Training Power System - I Lab Control System Lab	30	10	40	10	30	40	30 30	10 10	40 40	100 100 100
5EE4-24	Microprocessor Lab System Programming Lab	30 30	10	40 40	10 10	30 30	40 40	30 30	10	40	100
5EE7-30 5IT4-21 5IT4-22	Industrial Training Computer Graphics & Multimedia Lab Compilar Design Lab	30 30	10 10	40	10	30 30	40 40	30 30 30	10 10	40 40 40	100 100 100
5IT4-23 5IT4-24 5IT7-30	Analysis of Algorithms Lab Advanced Java Lab Industrial Training	30 30	10 10	40 40	10 10	30 30	40 40	30 30 30	10 10	40 40 40	100 100 100
5ME3-21 5ME4-22 5ME4-23	Mechatronic Lab Heat Transfer lab	30 30	10 10	40 40	10	30 30	40 40	30	10 10	40 40	100
5ME4-24 5ME7-30	Production Engineering Lab Machine Design Practice I Industrial Training	30 30	10 10	40 40 t	10 10	30	40 40	30 30 30	10 10 10	40 40 40	100 100 100
7CE4-21 7CE4-22 7CE4-23	Road Material Testing Lab Professional Practices & Field Engineering Lab Soft Skills Lab	30 30 30	10 10 10	40 40 40	10 10	30 30 30	40 40 40	30 30 30	10 10 10	40 40 40	100 100 100
7CE4-24 7CE7-30	Environmental Monitoring and Design Lab Practical Training	30	10	40	10	30	40	30 30	10	40	100
7CE7-40 7CS4-21 7CS4-22 7CS7-30	Seminar Internet of Things Lab Cuber Security Lab	30 30	10 10	40 40	10 10	30 30	40 40	30 30 30	10 10 10	40 40 40	100 100 100
7057.40	Industrial Training Seminar VLSI Design Lab	30	10	40	10	30	40	30 30 30 30	10 10 10	40 40 40	100 100 100
7EC4-21 7EC4-22 7EC4-23 7EC7-30	Advance communication lab (MATLAB Simulation) Optical Communication Lab	30 30	10 10	40 40	10	30 30	40 40	30	10	40 40	100 100 100
7EC7-40 7EE4-21	Industrial Training Seminar Embaddad Systems Lab	30	10	40	16	30	40	30 30 30 30	10 10 10	40 40 40	100
7EE4-22 7EE7-30 7EE7-40	Advance control system lab Industrial Training Seminar	30	10	40 E	10 30 30	30	40	30 30 30	10 10 10	40 40 40	100 100 100
7IT4-21 7IT4-22	Rig Data Analytics Lab Cyber Security Lab Industrial Training	30 30	10 10	40 40	16 10	30	40 40	30	10 10 10	40 40 40	100 100
7IT7-40 7ME4-21	Seminar FEA Lab	30	10	40	10	30	40	30 30 30	10 10	40	100
7ME4-22 7ME4-23 7ME7-30	Thermal Engineering Lab II Quality Control Lab Industrial Training *	30 30	10	40 40	10 10	30 30	40 40	30 30 30	10 10 10	40 40 40	100 100 100
7ME7-40										40	100

8 Department Load Allocation

		COLLEGE OF ENGINE		AH UN					
		artment of Computer Engi							
	Load Sho	eet of Session 2023-24 (OD	D Semest	er)					
Sr. No.	Faculty Name	Subject(s)	Subject Code	Section	L	Т	P	Load Per Week	Total Load
		Compiler Design	5CYB4- 02	F	3	0	0	3	
		Compiler Design Lab	5CYB4- 22	F	0	0	2	4	
1	MS. REEN. SHARMA	A Industrial Training	5CAI7- 30	D	0	0	1	1	15
		Compiler Design	5CAI4- 02	D	3	0	0	3	
		Compiler Design Lab	5CAI4- 22	D	0	0	2	4	
				<u> </u>					
		Open Elective - II (Cyber Security)	7CS6- 60.2	ОЕ	4	0	0	4	
2	Dr. KAMLES GAUTAM	H Cyber Security Lab	7CS4-22	A	0	0	4	8	15
	GATE TANV	Data MiningConcepts and Techniques	15CAI3- 01	D	3	0	0	3	
		Compiler Design	5CS4-02	С	3	0	0	3	
		Compiler Design Lab	5CS4-22	С	0	0	2	4	
		Industrial Training	5AID7- 30	E	0	0	1	1	_
3	Mr. GAURA` SHARMA	V Industrial Training	3CAI7- 30	D	0	0	1	1	16
		Compiler Design	5AID4- 02	E	3	0	0	3	
		Compiler Design Lab	5AID4- 22	E	0	0	2	4	

		Computer Graphics & Multimedia Lab	5AID4- 21	E	0	0	2	4	
4	Mrs. ARCHANA BHARDWAJ	Industrial Training	3AID7- 30	E	0	0	1	1	15
		Object Oriented Programming Lab	3CYB-22	F	0	0	3	6	
		Industrial Training	7CS7-30	В	0	0	4	4	
		loi : .	ID CLATA	-	1	1			<u> </u>
		Object Oriented Programming	13CA14- 06	D	3	0	0	3	
		Human-Computer Interaction	5CS5-12	BATCH- 1	3	0	0	3	
5	MS. APPOORVA BANSAL	Object Oriented Programming Lab	13CAI4- 22	D	0	0	3	6	15
		Programming for Data Sciences	5CAI5- 13 / 5AID5- 13	Batch-1	3	0	0	3	
		I	I	I	I	1			I
		Data Structures and Algorithms	13AID4- 05	Е	3	0	0	3	
6	MS. NEETU	Object Oriented Programming	13CYB4- 06	F	3	0	0	3	15
	IVIS. IVELTO	Data Structures and Algorithms Lab	13AID4- 21	Е	0	0	3	6	
		Computer Graphics	5AID4- 04	E	3	0	0	3	
					·				
		Adv Java Lab	5CAI4- 24	E	0	0	2	4	
7	DR. KESHAV	Adv Java Lab	5CS4-24	A	0	0	2	4	15
,	DEV GUPTA	Object Oriented Programming	13AID4- 06	E	3	0	0	3	
		Seminar	7CS7-40	A		0	4	4	
8	DR. SAURABH SHANDILYA	Operating Systems	5CYS4- 03	F	4	0	0	4	10

		Operating Systems	5AID-03	Е	4 (0	4	
		Seminar	7CS7-40	B1	0 () 2	2	
		Software Engineering	3CS4-07	R	3 (0 0	3	
9		Software Engineering Lab	3CS4-23	R	0 () 3	6	15
		Object Oriented Programming Lab	3AID4- 22	E	0 () 3	6	
		Internet of Things	7CS4-01	A	4 () ()	4	
			7CS4-21	A	0 () 8	8	
10	MS. SONAM	_	5CS7-30	A	0 () 1	1	17
		Computer Graphics & Multimedia Lab	5CS4-21	A	0 () 2	4	
		Data Structures and Algorithms	3CS4-05	В	3 (0	3	
11	Dr. Neha Mahala	Data Structures and Algorithms Lab	3CS4-21	В	0 () 3	6	17
	(ECE)	Industrial Training	3CS7-30	В	0 () 1	1	
		Digital Electronics	3CS3-04	R	3 (0	3	
		Digital Electronics Lab	3CS4-24	R	0 () 2	4	
		Seminar	7CS7-40	R2	lo lo) 2	2	
			3CAI-24			0 0		
		Wireless Communication		BATCH- 1-		0 0	3	
12			3CS3-04	С	3 (0	3	16
		Computer Programming Lab-I	3EC3-24	ECE- DEPT	0 () 2	2	
		Computer Graphics	5CS4-04	A	3 (0	3	

Time Table

8.1 Academic Time Table



POORNIMA COLLEGE OF ENGINEERING DEPARTMENT OF ADVANCE COMPUTING IV-D(AI)

Class Location: 2307 WEF: 19.02.2024 Tutor Name:Dr. K.D Gupta

1	2	3	LUNCH	4	5	6
8:30 - 9:30	9:30 - 10:30	10:30 - 11:30	11:30 - 12:20	12:20 - 13:20	13:20 - 14:20	14:20 - 15:20
40 Al2 04 DMC	40A14 07 DOCN	ACAIA OF DDMC		1210Clab	CAI4-22 DBMS LAE	BATCH D1 Ms Chitra Thinger
4CAI2-01 DINS	4CAI4-07 DCCN	4CAI4-05 DBMS				BATCH D2
					4CAI4-23 NP LAB	
Mr Pradeep Kumar	Dr Keshav Dev Gupta	Ms Chitra Thinger		1107lab		Dr Keshav Dev Gupta
4CAI3-04 MPI	4CAI4-05 DBMS	4CAI1-02 TC		4CAI4-06 TOC	1202lab	Ms Reena Sharma BATCH D2
D. (O. III. M.II.	M. Ohit. This	B. Olaris Olar				MPI LAB
Proi Geetika Wathur	wis Chitra Thinger	Dr. Shaiini Shan			1110lab	HEMANT KAUSHIK BATCH D1
				4CAI2-01 DMS tut.	4CAI4-25 J	
4CAI2-01 DMS	4CAI1-02 TC	4CAI4-05 DBMS	LUNCH	1113tut Mr Pradoep Kurnar	1207lab	Ms Harshita Virwani
				4	CAI4-22 DBMS LAE	BATCH D2
Mr Pradeep Kumar	Dr. Shalini Shah	Ms Chitra Thinger		1201Alab		Ms Chitra Thinger
	4CAI4-23 NP LAB	BATCH D1				
1201lab		Dr Keshav Dev Gupta		4CAI4-07 DCCN	4CAI4-06 TOC	4CAI2-01 DMS
40414.04						
		l		Dr Keshay Dev Gunta	Mr Saransh Sharma	Mr Pradeep Kumai
1202Iab		1113tut Mr Pradeep Kumar		Di Noonar Dev Gapia	IIII Garanor Grama	mi i radoop ramai
	MPI LAB					
1110lab		4CAI3-04 MPI		4CAI4-07 DCCN	4CAI4-06 TOC	4CAI3-04 MPI
	JAVA LAB	Deef Contiles Mathews		De Kashau Bau Cunta	Mr Caranah Charma	Prof Geetika Mathu
120/180	MS Harshita Virwani	, or ceased material		S. Nosial Set Capita	iii caaaa caaaa	THE COUNTY HALLO
	8:30 - 9:30 4CAI2-01 DMS Mr Pradeep Kumar 4CAI3-04 MPI Prof Geetika Mathur 4CAI2-01 DMS Mr Pradeep Kumar 1201lab 4CAI4-24 1110lab	### 100 ### 10	### 10:30 - 10:30 10:30 - 11:30 ### 4CAI2-01 DMS	### 130 - 9:30 9:30 - 10:30 10:30 - 11:30 11:30 - 12:20 ### 4CAI2-01 DMS	### 130 - 9:30 9:30 - 10:30 10:30 - 11:30 11:30 - 12:20 12:20 - 13:20 ### 4CAI2-01 DMS	## ACAI3-9:30

Time Table Coordinators: Dr. Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD Vice Principal, PCE, Director, PC



POORNIMA COLLEGE OF ENGINEERING DEPARTMENT OF ADVANCE COMPUTING IV-E(AID)

Class Location: 1305 WEF: 19.02.2024 Tutor Name:Ms. Neetu Joshi

	1	2	3	LUNCH	4	5	6
	8:30 - 9:30	9:30 - 10:30	10:30 - 11:30	11:30 - 12:20	12:20 - 13:20	13:20 - 14:20	14:20 - 15:20
Man	1201lab	AID4-22 DBMS LA	BATCH E1 Ms Neetu		1102lab	4AID4-23 NP LAB	BATCH E1 Mr Gaurav Sharma
Mon			BATCH E2		BATCH E2		BATCH E2
		4AID4-23 NP LAB			4AID2-01 DMS tut.	4AID4-24	LSP LAB
	1102lab		Mr Gaurav Sharma		1112tut Mr Pradeep Kumar	1202lab	Ms Reena Sharma
	4AID4-21	MPI LAB	BATCH E1 4AID2-01 DMS tut.			4AID4-25	JAVA LAB
Tues	1109lab	Ms Anjuli Dubey	Mr Pradeep Kumar		4AID4-05 DBMS	1209lab	Ms Shilpa Kalra Sahani
Tues	١ .	AID4 00 DDMC I AI	BATCH E2		.,	44104.04	BATCH E2
	1207lab	AID4-22 DBMS LA	Ms Neetu		Ms Neetu	4AID4-21	Ms Anjuli Dubey
	4AID4-24						
Wed	1202lab	Ms Reena Sharma BATCH E2	4AID4-07 DCCN	LUNCH	4AID4-06 TOC	4AID2-01 DMS	4AID3-04 MPI
	4AID4-25						
	1209lab	Ms Shilpa Kalra Sahani	Mr Gaurav Sharma		Ms. Ritu Sharma	Mr Pradeep Kumar	Ms Anjuli Dubey
TI							
Thur	4AID1-02 TC	4AID4-07 DCCN	4AID4-05 DBMS		4AID2-01 DMS	4AID3-04 MPI	4AID4-06 TOC
	Dr. Shalini Shah	Mr Gaurav Sharma	Ms Neetu		Mr Pradeep Kumar	Ms Anjuli Dubey	Ms. Ritu Sharma
Б.							
Fri	4AID3-04 MPI	4AID4-06 TOC	4AID2-01 DMS		4AID4-05 DBMS	4AID4-07 DCCN	4AID1-02 TC
	Ms Anjuli Dubey	Ms. Ritu Sharma	Mr Pradeep Kumar		Ms Neetu	Mr Gaurav Sharma	Dr. Shalini Shah
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD Vice Principal, PCE, Director, PCE



POORNIMA COLLEGE OF ENGINEERING DEPARTMENT OF ADVANCE COMPUTING IV-F(CCS)

Class Location: 1204 WEF: 19.02.2024 Tutor Name:Ms. Anjuli Dubey

	1 1	2	3	LUNCH	4	5	6
	8:30 - 9:30	9:30 - 10:30	10:30 - 11:30	11:30 - 12:20	12:20 - 13:20	13:20 - 14:20	14:20 - 15:20
	4CCS4-21	BATCH F1 MPI LAB Ms Anjuli Dubey			4 1209lab	CCS4-22 DBMS LA	BATCH F1 B Mr Shirish Mohan Dubey
Mon	4CCS4-24	BATCH F2	4CCS4-06 TOC			4CCS4-23 NP LAB	BATCH F2
	1202lab	Mr Shubham Patel	Mr Saransh Sharma		1108lab		Ms Sonam Gour
	4CCS4-07	4CCS4-24	BATCH F1 LSP LAB Mr Shubham Patel		4CCS4-25	JAVA LAB Dr Keshav Dev Gupta	BATCH I 4CCS2-01 DMS tut. 1113tut Mr Pradoep Ku
Tues	DCCN	4CCS4-25	BATCH F2			CCS4-22 DBMS LA	BATCH F2
	Ms Sonam Gour	1107lab	Dr Keshav Dev Gupta		1210Clab		Mr Shirish Mohan Dubey
Wed	4CCS4-05 DBMS	4CCS4-07 DCCN	4CCS2-01 DMS	LUNCH	4CCS1-02 TC	4CCS3-04 MPI	4CCS4-06 TOC
	Mr Shirish Mohan Dubey	Ms Sonam Gour	Mr Pradeep Kumar		Dr. Shalini Shah	Ms Anjuli Dubey	Mr Saransh Sharn
Thur	1108lab BATCH F2	4CCS4-23 NP LAB	BATCH F1 Ms Sonam Gour BATCH F2		4CCS3-04 MPI	4CCS4-05 DBMS	4CCS1-02 TC
	4CCS2-01 DMS tut. Mr Pradeep Kumer	4CCS4-21			Ms Anjuli Dubey	Mr Shirish Mohan Dubey	Dr. Shalini Sh
Fri	4CCS2-01 DMS	4CCS4-05 DBMS	4CCS3-04 MPI		4CCS4-07 DCCN	4CCS2-01 DMS	4CCS4-06 TOC
	Mr Pradeep Kumar	Mr Shirish Mohan Dubey	Ms Anjuli Dubey		Ms Sonam Gour	Mr Pradeep Kumar	Mr Saransh Sharr
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD Vice Principal, PCE, Director, PCE



POORNIMA COLLEGE OF ENGINEERING DEPARTMENT OF ADVANCE COMPUTING

VI-D (AI)

Class Location: 2207 WEF: 19.02.2024 Tutor Name:Ms. Reena Sharma

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	1	2	3	LUNCH	4	5	6
	8:30 - 9:30	9:30 - 10:30	10:30 - 11:30	11:30 - 12:20	12:20 - 13:20	13:20 - 14:20	14:20 - 15:20
Mon	6CAI4-02 ML	6CAI4-05 AI	6CAI4-06 CC		6CAI4-02 ML	6CAI3-01 DIP	6CAI4-03 ISS
	Ms Reena Sharma	Dr Kamlesh Gautam	Ms Shilpa Kalra Sahani		Ms Reena Sharma	Ms Neetu	Ms. Archana Bhardw
		6CAI4-22 ML LAB			Elective		
Tues	1102lab		Ms Reena Sharma		Ms Reena Sharma (ANN) - 2207	6CAI4-05 AI	6CAI4-04 CAO
1 405	1	6CAI4-24 MAD LAE			Ms Appoorva Bansal (NLP) - 2103	Dr Kamlesh Gautam	Mr Saransh Sharn
	2209Flab		Prof Saurabh Sandilya BATCH D1			Dr Kamiesh Gautam	BATCH D1
*** 1	1207lab	AI4-23 PYTHON L		LUNGU	1201lab	6CAI4-21 DIP LAB	Ms Neetu
Wed	1207100		BATCH D2	LUNCH	120 Hab		BATCH D2
		6CAI4-21 DIP LAB				6CAI4-22 ML LAB	
	1201lab		Ms Neetu		1102lab		Ms Reena Sharma
			Elective				
Thur	6CAI4-03 ISS	6CAI3-01 DIP	Ms Reena Sharma (ANN) - 2207 Ms Appoorva Bansal		6CAI4-06 CC	6CAI4-02 ML	6CAI4-04 CAO
	Ms. Archana Bhardwaj	Ms Neetu	(NLP) - 2103		Ms Shilpa Kalra Sahani	Ms Reena Sharma	Mr Saransh Sharm
			BATCH D1		<u> </u>		
г.	1102lab	6CAI4-24 MAD LAE	Prof Saurabh Sandilya				
Fri			BATCH D2		6CAI4-04 CAO	6CAI4-06 CC	6CAI4-05 AI
	1101Alab	AI4-23 PYTHON L	AB Dr Keshav Dev Gupta		Mr Saransh Sharma	Ms Shilpa Kalra Sahani	Dr Kamlesh Gauta
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD Vice Principal, PCE, Director, PCE



POORNIMA COLLEGE OF ENGINEERING DEPARTMENT OF ADVANCE COMPUTING VI-E (AID)

Class Location: 2103 WEF: 19.02.2024 Tutor Name:Mr. Gaurav Sharma

	1	2	3	LUNCH	4	5	6
	8:30 - 9:30	9:30 - 10:30	10:30 - 11:30	11:30 - 12:20	12:20 - 13:20	13:20 - 14:20	14:20 - 15:20
Mon	6AID4-02 ML	6AID4-03 ISS	6AID3-01 DIP		6AID4-05 AI	6AID4-06 CC	6AID4-04 CAO
	Ms. Archana Bhardwaj	Ms Archana Soni	Ms Geeta Tiwari		Dr Kamlesh Gautam	Ms Barkha Narang	Ms. Ritu Sharm
	2209Elab	6AID4-24 MAD LAE	BATCH E1 Mr Gaurav Sharma		Elective Ms Reena Sharma (ANN) - 2207		
Tues		ID4-23 PYTHON L	BATCH E2		Ms Appoorva Bansal (NLP) - 2103	6AID3-01 DIP	6AID4-04 CAO
	1209lab		Mr Saransh Sharma			Ms Geeta Tiwari	Ms. Ritu Sharm
						ND4-23 PYTHON LA	
Wed	6AID4-02 ML	6AID4-05 AI	6AID4-03 ISS	LUNCH	1210Clab		Mr Shubham Patel BATCH E2
	Ms. Archana Bhardwaj	Dr Kamlesh Gautam	Ms Archana Soni		1209lab	6AID4-24 MAD LAB	Mr Gaurav Sharma
			Elective			6AID4-21 DIP LAB	BATCH E1
Thur	6AID4-06 CC	6AID4-05 AI	Ms Reena Sharma (ANN) - 2207		2209Alab		Ms Geeta Tiwari BATCH E2
	Ms Barkha Narang	Dr Kamlesh Gautam	Ms Appoorva Bansal (NLP) - 2103		0000001	6AID4-22 ML LAB	
	Wo Barkita Harang	Di Namicon Gadam			2209Dlab	6AID4-22 ML LAB	Ms. Archana Bhardwaj BATCH E1
E	CAID4 04 040	CAID 4 00 00	CAID4 00 MI		2209Dlab	VAID4-22 WIL LAD	Ms. Archana Bhardwaj
Fri	6AID4-04 CAO	6AID4-06 CC	6AID4-02 ML			6AID4-21 DIP LAB	BATCH E2
	Ms. Ritu Sharma	Ms Barkha Narang	Ms. Archana Bhardwaj		1207lab		Ms Geeta Tiwari
Sa							

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD Vice Principal, PCE, Director, PCE



POORNIMA COLLEGE OF ENGINEERING DEPARTMENT OF ADVANCE COMPUTING VI-F (CCS)

Class Location: 2208 WEF: 19.02.2024 Tutor Name:Ms. Archana Soni

	1	2	3	LUNCH	4	5	6
	8:30 - 9:30	9:30 - 10:30	10:30 - 11:30	11:30 - 12:20	12:20 - 13:20	13:20 - 14:20	14:20 - 15:20
Mon	6CCS4-06 BCCS Mr Shirish Mohan Dubey	Group 1 6CCS5-13 EHDF Mr Marrish Dubny Group 2 6CCS5-11 CF	6CCS4-02 ML		6CCS4-04 CAO	6CCS4-03 ISS Ms. Ritu Sharma	6CCS3-01 DIP
	Mr Shirish Mohan Dubey	1113tut Dr Abhishek Sharma	BATCH F1		Mr Saransh Sharma	Ms. Ritu Sharma	MS Archana Soni
Tues	2209Dlab	6CCS4-22 ML LAB	Dr Kamlesh Gautam BATCH F2 Ms Archana Soni		6CCS4-03 ISS Ms. Ritu Sharma	6CCS4-04 CAO	6CCS4-05 AI Ms Neha Shrotriya
Wed	2209Elab	CS4-23 PYTHON LA	Ms Appoorva Bansal BATCH F2	LUNCH	2209Elab	6CCS4-21 DIP LAB	BATCH F1 Ms Archana Soni BATCH F2 Dr Kamlesh Gautam
Thur	6CCS4-05 AI Ms Neha Shrotriya	Group 1 6CCS5-13 EHDF Mr Mariath Dubry Group 2 6CCS5-11 CF 2307 Dr Abhildask Sharma	6CCS4-02 ML		6CCS4-04 CAO Mr Saransh Sharma	6CCS3-01 DIP Ms Archana Soni	6CCS4-06 BCCS Mr Shirish Mohan Dubey
Fri	6CCS4-05 AI	6CCS4-02 ML	6CCS4-06 BCCS		1210Clab	CS4-23 PYTHON LA	Ms Barkha Narang BATCH F2
Sa	Ms Neha Shrotriya	Dr Kamlesh Gautam	Mr Shirish Mohan Dubey		2209Flab		Ms Appoorva Bansal

Time Table Coordinators: Dr.Abhishek Sharma & Ms. Harshita Virwani, HoD, Dy.HoD Vice Principal, PCE, Director, PCE

9 Course Outcome Attainment Process:

9.1 Course Outcome Attainment Process

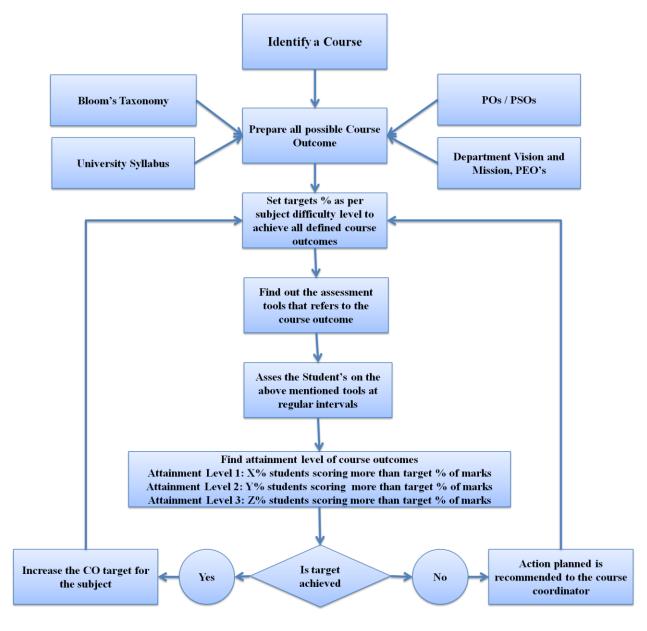


Figure. Course Outcome Attainment Process

9.2 List of CO & CO mapping with PO

				Departm	ent	of	Ac	lva	nce	e C	om	pu	ting	3					
				CO-PO	Ma	ppi	ing	(S	essi	ion	20	23-	24))					
S. No	Cou rse Cod e	Course Name	CO No	Course Outcomes (After completing the course students will be able to)		P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 1 0	P O 1 1	P O 1 2	PSO 1	PSO 2	PS O3
			CO 1	Students will be able to define and explain basic concepts definite integrals, sequence and series, periodic functions and multivariable functions.	1	-	-	-	2	-	-	-	-	-	-	-	-	-	
	1EV	Engineeri	CO 2	Students will be able to understand properties of beta and gamma function, convergence of sequence and series.	2			•	•		-	-	-	-		-	-	-	•
1	1FY 2-01	ng Mathemat ics-I	CO 3	The students will be able to apply properties of beta and gamma functions and definite integrals to find surface area and volumes of revolution. They will be able to apply partial derivatives and multiple integrals to solve many problems in science and engineering.	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-

			CO 4	Students will be able to analyse Fourier series to make many useful deductions which lay down foundation of signal processing and image processing.	2	3	-	-	-	-		-	-	-	-	-	-		-
				Describe characteristics	2	5	-	-		-	-	-	-	-	-	-	-	-	-
			CO 1	of water, fuel and Engineering materials-	1	-	-	-	1	1	1	-	-	1	-	ı	ı	-	2
			CO 2	Determine of hardness of water and calorific value of fuels for Industrial as well as domestic purposes	2	-	-	-	,	,	•	-	-		-	1	1	1	-
2	1FY 2-03	Engineeri ng Chemistry	CO 3	Compare different techniques of water treatment, fuel analysis, Manufacturing of engineering materials and corrosion protection methods	3	-	-	-	1	1	1	-	-	1	-	1	-	-	-
			CO 4	Prepare the generic drugs or medicines by identifying the applications of organic reaction mechanism and manufacturing of engineering materials	-	2	-	-	1	-	-	-	-	1	-	1	-	-	-
				macriais	2	2	-	-	-	-	-	-	-	-	-	-	-	1	2

			CO 1	Describe the process of communication, basics of Grammar and Writing and Literary Aspects	-	-	-	-	-	-	-	-	-	1	•	-	-	-	-
			CO 2	Explain the types of communication, barriers and channels of communication and the concept of Literature through Short Stories and poetry		-	1	'	-	1	-	1	1	2	ı	ı	-	1	-
3	1FY 1-04	Communi cation Skills	CO 3	Write and prepare professional reports, paragraph and business letters with the correct use of grammar	•	-		•	-	-	-			3	,	,	-	1	-
			CO 4	Discuss and illustrate the impact of social and moral values by implying the basics of English Writing Skills through literary aspects	-	-	-	-	-	-	-	2	•	-			-	-	-
			CO 5	Restate and outline the basic areas of English Language Skills with the applications of literature	-	-	-	-	-	-	-		-		-	2	-	-	-
4	1FY 3-07	Basic Mechanic al Engineeri ng	CO 1	Students will be able to retrieve basic concepts of thermal and manufacturi ng process.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

			CO 2	Students will able to compare different types of thermal and manufacturi ng processes and.	2	1	-	1	1	1	ı	ı	ı	ı	ı	ı	•	,	-
			CO 3	Students will able to annotating about the functioning of turbine & pumps, IC engines, refrigeration system, modes of transmission of power, materials and primary manufacturi ng process.	3		-			-	-	-	,	-			-	-	-
			CO 4	Student will be able to appraise the fundamental knowledge of thermal engineering, in addition to understanding of power transmission to solve the industrial and societal issues.	- 2	1	-	-						-			-		-
		ъ :		Identify basic components of	_	_													
5	1FY 3-08	Basic Electrical Engineeri ng	CO 1	electrical engineering and connect them to form different	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-

				circuits to verify basic laws.Understa															
			CO 2	nding Analyse the output of rectifier circuit, AC and DC machines to solve problems assosciated with Basic electrical engineering. A nalyse	2	3	-	-	-	-	-	-	-	-	-	-	1		-
			CO 3	Contribute efficiently in a team to acieve desired response of AC and DC Machines. Team Work	•	-	-	-	-	•	'		3				•	•	-
			CO 4	Demonstrate the output of rectifier circuits consistiong of basic components of electrical engineering. Mechanism	-	-	-	-	-	-					3		2	•	
					2. 5	3	-	-	-	-	-	•	3	•	3		1.5	-	-
			CO 1	Determine the strength of unknown solution by volumetric analysis.	1	-	-	-	-	-	-	-	-	-	-	-			-
		Engineeri	CO 2	Examine the characteristics of lubricating oil in groups	-	-	-	-	-	-		-	2	-		-	-	-	-
6	1FY 2-21	ng Chemistry Lab	CO 3	Analyze different characteristics of water and fuel to solve societal and enviornmental problems	-	-	-	-	-	-	2	•	•	•	-	•	-	-	-
			CO 4	Students will show an ability to work as a team member ethically	-	-	-	-	-	•	•	2	3	-	•	-	-	-	-

					1	-	-	-	-	-	2	2	2. 5	-	-	-	-	-	-
			CO 1	Use and pronounce the words correctly.	-	-	-	-	•	-	-	-	-	1	•	•	-	-	-
			CO 2	Acquire knowledge of the correct expressions,vo cabulary etc. in personal and professional lives.	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
7	1FY 1-22	Language Lab	CO 3	Plan successfully for leadership and teamwork,crac k GD's, interviews and other professional activities.	-	-	-	-	•	-	-	-	2	•	•	•	•	•	-
			CO 4	Synthesize the process of communicatio n using LSRW.	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
					-	-	-	-	-	-	-	-	2	2	-	-	-	-	-
			CO 1	Describe the working of Lathe machine.	1	-	-	-	•	-	-	-		•	•	•	1	,	-
			CO 2	Apply the basic concepts of Foundry Shop	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-
8	1FY 3-25	Manufact uring Practices Workshop	CO 3	Develop various carpentry joints, welding joints and sheet metal objects.	-	2	-	-	-	-	-	-	-	•	•	-	1	-	-
			CO 4	Students will show an ability to work as a team member ethically	-	-	-	-		-	-	2	3				-	-	-
					1. 5	2	-	-	•	-	-	2	3	•	•	•	1	•	-
9	1FY 3-26	Basic Electrical Engineeri	CO 1	Discuss measurement of electrical quantites	1	-	-	-	-	-	-	-	-	-	-	-	1	2	-
		ng Lab	CO 2	Compare different	2	-	-	-	-	-	-	-	-	•	-	-	1	2	-

				connections of transformer	Ī														
			CO 3	Demonstrate constructional features of electrical machines and converters	3	-	-	-	1	1	1	1	1	1	1		2	2	
			CO 4	Students will show an ability to communicate effectively and work as a team member ethically	-	-	-	-	-	-	•	2	3	2		1		-	-
					2	-	-	-	-	-	-	2	3	2	-	-	1.33 33	2	-
			CO 1	Describe engineering drawing terminology, concept of scales and conic sections.	1	-	-	-	'				'	'			1	-	-
10	1FY 3-28	Computer Aided Engineeri ng	CO 2	Draw Projection of Points, lines, planes, solids and section of solids	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-
		Graphics	CO 3	Draft 2D engineering problems on CAD software.	-		-	-	3	-	•	•	-	-	•	•		1	1
			CO 4	Students will show an ability to work as a team member ethically	-	-	-	-	-	-	•	2	3	-	•	•	-	-	-
					1	1	-	-	3	-	-	2	3	-	-	-	1.5	1	1
11	3CS 2-01	Advanced Engineeri ng Mathemat	CO 1	To Define probability models using probability mass (density) functions, need and classification of optimization terminology.	1	-	-	-	-	-	-	•	-	-	•	•	2	-	-
		ics	CO 2	To Explain the probability distributions of discrete and continuous random variables and	2	-	-	-	-	-	•	•	-	-	•	•	2	1	-

			CO 3	work binomial, Poisson, uniform, exponential, normal distribution and their statistical measures. To Solve mathematical models of the real world problems in optimization using Linear Programming methods such	3			-		-			-		-		2	1	-
				as Transportation, Traveling salesman and many more such problems.															
			CO 4	To Examine the correlation between two variables and regression applications for purposes of description and prediction.	-	3		1	1				1		ı	1	2	1	1
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	3	-	-	•	-	-	-	-	-	-	•	2	1	1
12	3CS 1-03	Manageri al Economic s and Financial Accountin g	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		1	-	-		2	3	1	-	-	-
			CO 2	To Calculate the domestic product, national product and elasticity of	-	-	-	-	-	2	-	-	-	-	3	-	-	-	-

			CO 3	price on demand and supply. To Draw the cost graphs, revenue graphs and forecast the impact of change in price in various perfect as well	3	-	2	1	1	-	-	-	-	-	2	-	-	1	-
			CO 4	as imperfect market structures. To Compare the financial statements to interpret the financial position of the firm and evaluate the project investment decisions.	-	3	-	1	-	-	-	-	-	-	2	-	1	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					3	3	2	-	-	1. 5	-	-	-	2	2. 5	1	-	-	-
				To Apply the															
			CO 1	fundamentals of Number Systems and boolean Algebra for solving the numericals and logical	2	-	-			-	-	-	-	-	-	-	2	-	-
13	3CS 3-04	Digital Electronic s		fundamentals of Number Systems and boolean Algebra for solving the numericals and logical problems. To Recognize minimization techniques for reducing the size of any digital circuits.	2	2	-	1	-	-	-	-	-	-	-	1	2	-	-
13		Electronic	1 CO	fundamentals of Number Systems and boolean Algebra for solving the numericals and logical problems. To Recognize minimization techniques for reducing the size of any			- 3											-	-

				Families and its realization.															
					ı	-	-	-	ı	1	-	-	-	-	-	1	-	1	-
					2	2	3	2	•	-	-	-	-	-	-	•	2	2	-
			CO 1	To explain data structures and their use in daily life.	2	-	-	-	1	-	-	-	-	-	1	1	-	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	-
14	3CS 4-05	Data Structures and Algorithm s	CO 3	To develop searching and sorting algorithms on predefind data	-	-	3	-	ı	-	-	-	-	-	ı	1	-	-	2
			CO 4	To create the data structures in specific areas like DBMS, Compiler, Operating system.	-	-	-	3	1	-	-	-	-	-	1	1	-	-	2
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	3	3	3	1	•	-	-	-	-	1	1	-	2	2
	3CS	Object Oriented	CO 1	Apply the various programming paradigms such as exception handling, polymorphism in software pattern	2	-	-	-	-	-	-	-	-	-	-	1	3	-	-
15	4-06	Programm ing	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	-	-	3	-	-	-	-	-	-	-	-	-	-	2	-

				programs.															
			CO 4	Investigate the real time applications using advance C++ concepts.	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	2	3	3	•	•	•	-	•	-	-	-	3	2	3
			CO 1	To Demostrate software life cycle models with respect to software enginneering principles.	2	-	-	-	1	1	1	ı	1	ı	ı	ı	3	ı	2
			CO 2	To analyse cost estimation technique and risk analysis techniques in software engineering projects.	-	2	-	-	ı	ı	ı	ı	ı	-	ı	ı	2	3	-
16	3CS 4-07	Software Engineeri ng	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	ı	ı	ı	ı	ı	-	ı	ı	3	-	1
					-	-	-	-	1			1		-	1	1	-	-	-
					2	2	3	3	-	-	-	-	-	-	-	-	2.5	3	2
		Data Structures	LO 1	To Utilize searching and sorting algorithms on given values.	2	-	_	-	2	-	1	1	1	2	1	1	2	-	-
17	3CS 4-21	and Algorithm s Lab	LO 2	To analyze the time and space efficiency of the data structure	ı	-	_	-	1	2	1	1	1	-	1	1	2	-	-
			LO 3	To Evalute traversing, insertion and	-	-	-	-	-	-	2	-	-	-	-	2	-	2	-

				deletion operations on Linear and non linear data structures															
			LO 4	To construct the solutions for real time applications	-	_	1	ı	2	-	-	-	2	-	-	-	-	_	3
			LO 5	applications	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	-	-	•	2	2	2	-	2	2	-	2	2	2	3
			LO 1	Students will able to apply the programming concepts such as inheritance, polymorphism	-	-	-	1	2	-	-	-	-	-	-	2	3	-	-
		Object	LO 2	Students will be able to distinguish the programming methodologies to implement programs	-	-	-	-	-	2	-	-	-	-	-	2	-	2	-
18	3CS 4-22	Oriented Programm ing Lab	LO 3	Students will be able to explain the concepts to develop the structured programs.	-	-	-	-	-	-	2	-	-	-	-	2	-	-	3
			LO 4	Students will be able to construct the solutions for real time problems	-	-	-	-	-	-	-	-	2	-	3	-	-	-	3
			LO 5		-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
					-	-	-	•	2	2	2	-	2	-	3	2	3	2	3
19	3CS 4-23	Software Engineeri ng Lab	LO 1	Understand and explain the basic concepts of UML, design, test case implementatio n, and OOP concepts using Java.	2	-	-	-	1	-	-	-	-	-	-	1	3	-	-
			LO 2	Discuss and analyze how to create software	1	-	-	3	1	-	-	-	1	1	-	1	-	3	-

				requirements specifications for a particular problem.															
			LO 3	Create Data Flow Diagrams for different systems.	-	-	3	-	-	-	-	-	-	-	-	-	-	3	2
			LO 4	Understand and develop UML diagrams of various structures and behaviors.	-	-	-	-	2	-	-	-	-	-	-	-	2	3	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	-	3	3	2	-	-	-	-	-	-	-	2.5	3	2
			LO 1	Apply appropriate basic logic gates for verifying the truth tables.	2	-	-	-	-	-	-	-	-	1	1	1	2	-	-
			LO 2	Demonstarte ability for recognizing any IC and its fuctionality.	ı	2	-	-	1	1	1	1	1	ı	ı	ı	2	1	-
			LO 3	Design any basic gates by the use of universal gates.	-	-	3	-	-	-	-	-	-		1	1	1	2	-
20	3CS 4-24	Digital Electronic s Lab	LO 4	Identify the limitation of basic logic gates while desgining any SOP and POS logics.	-	-	-	2	-	-	-	-	-	1	1	1	2	-	-
			LO 5	Design any sequential and combinational circuits using basic gates as well as by defined IC.	-	-	2	-	-	-	-	-	-	1			2	-	-
			LO 6	Demonstrate the working of Digital Trainer kits and usability of it.	-	-	-	-	2	-	-	-	-	-	-	-	-	2	-
			LO 7	Debug a circuit to find a problem and suggest	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2

				suitable solution.					·					·	·				
			LO 8	Able to work in a team for desgining and rectifying any errors in the digital circuit.	-	-	-	-	1	-	-	-	2	-	1	1	-	-	2
					2	2	2. 5	2	2	-	-	-	2	-	•	2	2	2	2
			LO 1	Capability to acquire and apply fundamental principles of engineering.	3	-	-	1	ı	1	-	-	1	-	ı	ı	2	-	-
			LO 2	Become master in one's specialized technology and updated with all the latest changes in technological world for desigining real time project in industry.	1	-	-	-	3	1	-	-	1	ı	3	ı	3	,	3
			LO 3	Ability to communicate efficiently	-	-	-	-	1	-	-	-	-	3	1	-	2	-	-
21	3CS 7-30	Industrial Training	LO 4	Knack to be a multi-skilled engineer with good technical knowledge, management, leadership and entrepreneursh ip skills.	-	-	-	-	-	-	-	-	3	-	-	-	2	2	3
			LO 5	Ability to identify, formulate and model problems and find engineering solution based on a systems approach.	-	-	-	3	-	3	-	-	-		-		2	2	-
			LO 6	Capability and enthusiasm for self- improvement through continuous professional development	-	-	-	-	-	-	-	-	-	-	-	3	2	-	3

				and life-long learning	Ī								·	·					
			LO 7	Awareness of the social, cultural, global and environmental responsibility as an engineer.	1	-	-	-	1	-	3	2	1	1	1	ı	1	2	-
					3	-	-	3	3	3	3	2	3	3	3	3	2.16 67	2	3
			CO 1	Demonstrate the concept of information theory and entropy.	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO 2	Analyze the different coding techniques for efficient communicatio n.	-	2	-	-	-	-	-	-	-	-	-	-	2	-	-
22	5CS 3-01	Informati on Theory & Coding	CO 3	Design the linear block code and cyclic code for error free communication.	-	-	2	-	1	-	-	1	-	-	-	-	-	2	-
			CO 4	Evaluate the shortest path by using different algorithms techniques.	1	-	-	3	1	-	1	1	1	1	1	1	1	1	2
					ı	-	-	-	ı	-	1	1	1	1	1	ı	1	ı	-
					2	2	2	3		-	-		-	-	-		2	2	2
			CO 1	To illustrate the theoretical concepts of finite state machine	2	-	-	-	ı	-	-	ı	-	-	-	ı	3	1	-
23	5CS 4-02	Compiler Design	CO 2	To analyze the grammars, parsing techniques, and actual code generation methods	-	3	-	-	-	-	-	-	-	-	-	-	-	2	-
			CO 3	To Evaluate the different types of error and convert	-	-	3	-	-	-	-	-	-	-	-	-	-	-	2

				the code in I.C.G.															
			CO 4	To convert the optimized code into the machine code in the storage organisation and code optimization.	1	-	-	3	1	1	1	1	1	1	1	-	2	-	-
					1	-	-	-	1	1	-	-	-	-	1	-	•	ı	-
					2	3	3	3	-	-	-	-	-	-	-	-	2.5	2	2
			CO 1	To demonstrate the knowledge of Operating System services including Memory, Device & File Management.	3	-	-	-	-	-	-	-	-	-	ı	ı	3	-	2
24	5CS 4-03	Operating System	CO 2	To categorize the Process management in terms of inter process communicatio n and memory management methods for Contiguous and Noncontiguous allocation.	_	3	-	-	-	_	-	-	-	-	-		2	-	-
			CO 3	To Design the solution for scheduling and deadlock problems in operating system using appropriate algorithms such as round robin, FCFS, bankers algo etc.	-	-	2	-	-	-	-	-	-	-	-	1	3	-	2
			CO 4	To investigate LINUX/UNIX, OS, RTOS, windows and Mobile based OS file system through case study.	-	-	-	3	-	-	-	-	-	-	1	-	2	2	-

					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					3	3	2	3		-	-	-	-	-			2.5	2	2
			CO 1	Demonstrate the standards and Primitives of Drawing components like line, circle, ellipse, clipping, filling	2	-	-	1	1	-	-	-	-	-	1	1	2	-	-
		Computer Graphics	CO 2	Analyze the graphics quality with the help 3D Graphics and Projections	1	2	1	1	1	1	-	-	-	-	1	1	1	2	ı
25	5CS 4-04	& Multimedi a	CO 3	Design the animation using transformation and clipping	-	-	3	-	1	-	-	-	-	-	1	1	-	-	2
			CO 4	Organize the primitives for Illumination, Shading and Color Models.(Evaluate)	-	-	-	2	-	-	-	-	-	-	-	-	-	-	3
					-	-	-			-	-	-	-	-				-	-
					2	2	3	2	-	-	-	-	-	-	-	-	2	2	2.5
		Analysis	CO 1	Understand complexity of an algorithm, asymptotic notation and divide and conquer method for developing an algorithm.	3	-	-	1	1	-	-	-	-	-	1	1	3	-	-
26	5CS 4-05	of Algorithm s	CO 2	Analyze the algorithm design using greedy algorithm and dynamic programming.	-	3	-	•	•	-	-	-	-	-	•	-	2	-	-
			CO 3	To Create search for problem solution using backtracking,	-	-	3	1	1	-	-	-	-	-	-	1	2	-	-

				branch and bound and pattern matching algorithm															
			CO 4	To synthesize the randomized algorithm, assignment problem and types of classes such as P, NP, and NP Complete.	-	-	-	2	•	•	•	•	-	•	•	1	3	-	2
					•	-	-	-	•	-	-	-	-	-	-	-	-	-	-
					3	3	3	2	•	-	•	•	-	-	•	-	2.5	-	2
			CO 1	To Classify the challenges with transmission of signals in wireless communicatio n systems and Cellular architechture with Multiplexing Techniques.	2	-	-	1	ı	1	1	1	ı	1	1	1	3	-	1
27	5CS 5-11	Wireless Communi cation	CO 2	To Analyze the measures to increase the capacity in GSM systems-sectorization and Spatial Filtering for Interference Reduction	1	3	-	ı	1	ı	1	1	ı	1	1	1	1	2	-
			CO 3	To formulate cell architecture in wirless communicatio n sytem.	ı	-	3	-	ı	1	1	1	-	1	1	ı	-	2	-
			CO 4	To Distinguish digital signaling techniques for lossy channels.	-	-	-	2	1	1	1	1	-	1	1	1	2	-	-
					•	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					2	3	3	2	-	-	-	-	-	-	•	-	2.5	2	-

			CO 1	To apply guidelines and imperical research method in HCI to Make User Friendly Computer Interface	2	-	-		-	-	-	-	-	-	-		2	_	-
28	5CS 5-12	Human Computer Interactio	CO 2	To categorise Human Computer interction concept using GUI Design and Prototyping techniques	-	3	1	1	1	1	1	-	-	1	-	1	1	2	-
		n	CO 3	To design Task models and object oriented modeling for computer interface	-	-	3	1	1	1	-	-	-	-	-	1	-	-	2
			CO 4	To classify types of GOMS, Family model and LAWS	-	-	-	2	-	-	-	-	-	-	-	-	1	2	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
					2	3	3	2	-	-	-	-	-	-	-	-	1.5	2	2
			L O 1	to apply the concepts of transformatio n techniques on 2D & 3D objects.	2	_		1	1	-		_	_		_	1	2	-	-
29	5CS 4-21	Computer Graphics & Multimedi	L O 2	to analyze the colour modelling, shading and animation on graphic objects.	-	3	-	1	1	1	-	-	-	-	-	1	2	-	3
		a Lab		to design the graphical premitives drawing algorithms			3												

			L O 4	to Generate Fractal images using graphics tool like Sterling to make a project to solve real life socity based problem and demonstrate following PO related capabilities: a. Improve	-	-	-	2	2	-	-	-	-	-	-		3	-	-
			L O 5	team working skill b. Improve communicati on skill c. Improve ethics (i.e. plagiarism, copy others results) d. Lifelong learning attitude	-	-	-	-	1	3	3	3	3	3	3	3	3	2	3
					2	3	3	2	2	3	3	3	3	3	3	3	2.4	2	3
			LO 1	To Analysis the finite state machines, lexical analyzer, parser for the grammar.	-	-	-	-	-	-	-	-	3	-	-	-	3	-	-
30	5CS 4-22	Compiler Design Lab		the finite state machines, lexical analyzer, parser for the	-	-	-	-	3	-	-		-	-	-		2	-	-

				and converted into optimzed code															
			LO 4	To demostrate hands on experience of working on system software.	-	-	-	-	-	3	-	-	-	-	-	-	-	3	-
			LO 5		-	-	-	-	-	-	-	1	-	-	1	1	1	-	-
					-	-	-	-	3	3	-	•	3	-	•	•	2.33 33	3	-
			LO 1	Apply sorting algorithms like quick sort for information searching.	3	-	-	-	1	1	1	1	ı	1	1	1	3	-	-
			LO 2	Identify problems to be broken down into simple sub problems using merge sort algorithm	-	-	-	3		,	,	ı			ı	ı	ı	3	-
31	5CS 4-23	Analysis of Algorithm s Lab	LO 3	Device solutions using topological ordering to quickly compute shortest paths	-	-	2	-	'			1	-	'	1	1	1	3	-
			LO 4	Demonstrat e real world scenarios like resourse allocation using knapack algorithm	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-
			LO 5	From a given vertex, Select Dijkstra's algorithm to find the	-	-	-	-	2	-	-	-	-	-	-	-	-	-	3

				shortest path to other vertices															
			LO 6	Demonstrat e minimum cost spanning tree of a given undirected graph using kruskal's algorithm	-	3	-	-	-	-	-	-	-	-	-	-		•	3
					3	-	2	3	2	-	-	-	-	•	-	2	3	2.66 67	3
			LO 1	To apply event handling on AWT and Swing components.	-	-	3	-	1	1	1	-	-	ı	1	ı	3	-	-
			LO 2	To Design a page using Swing, Servlet, JSP and JDBC connectivity.	ı	-	-	-	3	ı	ı	-	-	1	ı	1	3	ı	-
32	5CS 4-24	Advance Java Lab	LO 3	To create a project based on societal problem.	-	-	-	-	-	3	-	-	-	1	-	1	-	3	-
			LO 4	To map Java classes and object associations to relational database tables with Hibernate mapping files	-	-	-	-	-	-	3	-	-	-	-	-	-	3	3
			LO 5		-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
					-	-	3	-	3	3	3	-	-	-	-	-	3	3	3
	5CS	Industrial	LO 1	Capability to acquire and apply fundamental principles of engineering.	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-
33	7-30	Training	LO 2	Become master in one's specialized technology and updated with all the latest changes in	-	-	-	-	3	-	-	-	-	-	3	-	3	-	3

	as an engineer.	3	-	-	3	3	3	3	2	3	3	3	3	2.16 67	2	3
LO 7	Awareness of the social,	-	-	-	-	-	1	3	2	-	-	-	-	-	2	-
LO 6	Capability and enthusiasm for self-improvement through continuous professional development and life-long learning	1	-	1	1			1	1		1	1	3	2	-	3
LO 5	Ability to identify, formulate and model problems and find engineering solution based on a systems approach.	-	-		3	-	3		1	-			-	2	2	-
LO 4	Knack to be a multi-skilled engineer with good technical knowledge, management, leadership and entrepreneursh ip skills.	-	-		1	-	-		ı	3			-	2	2	3
LO 3	technological world for desigining real time project in industry. Ability to communicate efficiently	-	-	-	1	-	-	-	1	-	3	-	-	2		-

Curriculum Delivery Plan

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Course File Sample

Outcome Based ProcessImplementationGuidelinesforFaculty

9.3 Labelling yourcoursefile

- Name of faculty:
- · Class- SEM:
- Branch:
- CourseCode:
- CourseName:
- Session:

9.4 List ofDocuments:

- 1. Vision&MissionStatementsof theInstitute
- 2. Vision&MissionStatementsof theDepartment
- 3. List of PEO, PSOandPOofdepartment
- 4. PersonalTimeTable
- 5. RTU Syllabus
- 5. Documentasperpoint no. 1-4 inguidelines
- 6. Course Plan
- 7. Document asperpoint no6-12 inguidelines
- 8. Document for COAssessment Stage 1: Asperpoint no 13, up to 13.2.5
- 9. Document for COAssessment Stage 2: Asperpoint no 13, up to 13.2.5, with comparison to previous
- 10. Document for COAssessment Stage 3: Asperpoint no 13, up to 13.2.5, with comparison to previous
- 11. DocumentforCOAttainment throughRTUComponent: Previous RTU Result:pointno. 13.3 upto13.3.2
- 12. Document for POattainment throughRTUComponent:Previous RTU Result:pointno. 13.4 upto 13.4.2
- 13. Document for OverallAttainmentof POthroughCO: Asperpoint no13.5
- 14. Document for last threeyears(Repeatprocessfrom6-14 above): Comparativedata shouldbe includedincoursefile
- 15. LectureNotes
- 16. Copyof Assignmentsquestionsgivenfromtimetotime
- 17. Copyof TutorialSheetsgiven (if applicable)
- 18. RTUQuestionPaperswithanswer

- $19. \ Internal Assessment Question Papers with answer from time to time$
- 20. Topicscovered beyond syllabus-References

Subject:

- 21. Details of any other activity and its assessment through rubric be included
- 22. Mappingdepartment level/focus activities with your COs

10 Outcome BasedProcessImplementationGuidelinesforFaculty

CourseCO-PO, Preparation, Assessment Formats

AcademicSession: 2021-2022 Class: Semester: Nameof theFaculty:

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

Subject Code:

- 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 and Mapping with Department Vision&Mission

Hereyou havetoincludedepartmentPSOstatementsandshowmappingof keywordswithdepartment vision&mission.

- 4. ProgramOutcome(POs): Statement andMappingwithPEOandPSO
 Hereyou havetoincludePOstatementsandshowmappingofkeywordswith
 departmentPEOs &PSOs.
- 5. CoursePlan(Deployment):

(Pleasewritehowyou intend to cover the contents: i.e., coverage of Units by lectures, guest lectures, design exercises, solving numerical problems, demonstration of models, model preparation, or by assignments, etc.), for example

Ocoverage of Units by lectures Odesign exercises Odemonstration of models Obyassignments

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.						120
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						

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

- 6. **CourseOutcomes:**LookforstrongmappingofcoursewithspecificPO(2-3).Define GenericCourseOutcomes(max4to6)usingBlooms Taxonomy.(IncaseofLabCourse definegenericLab OutcomesLOand refer COasLOin thisdocument).
 - i. 4CSA101.1(CO1)-
 - ii. 4CSA101.2(CO2)-
 - iii. 4CSA101.3(CO3)-
 - iv. 4CSA101.4(CO4)-
 - v. 4CSA101.5(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 PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12													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 PSO ModeratelyMapped:(Example)

O PSO2: Writefullstatement withkeywordshighlighted

6.6 PSOLowMapped:(Example)

OPSO3: Writefullstatement withkeywordshighlighted

8. RulesforCO/LOAttainment Levels:(Targets)

 $All the courses of your department should be divided into three categories A-Most Difficult \ course, \ B-Medium level of Difficulty, C-Low level of Difficulty-(Easy)$

According to difficulty level, you can decide specific range for CO attainment targets for

Continuous assessment from the following table.

Rememberthat targetsfor internalassessment shouldbehigher.

CourseCategory	Level3	Level2	Level1
A	60% of studentsgetting	50-60% of students	40-50% of students
	>60% marks	getting >60% marks	getting >60% marks
В	80% of studentsgetting	60-80% of students	40-60% of students
	>60% marks	getting >60% marks	getting >60% marks
С	90% of studentsgetting	70-90% of students	40-70% of students
	>60% marks	getting >60% marks	getting >60% marks

9. EndTermRTUComponent: COAttainment Levels

 $All the \ \ courses of \ \ your department \ \ should be divided into three \ \ categories A-Most \ \ Difficult \ \ course, \ B-Medium level of \ Difficulty-(Easy)$

According to difficultylevelandthe resultsofpast 3-5 years, youcandecidespecific range for CO attainment targets for RTU component from the following table.

CourseCategory	Level3	Level2	Level1
A	50% of studentsgetting	40-50% of students	30-40% of students
	>60% marks	getting >60% marks	getting >60% marks
В	60% of studentsgetting	40-60% of students	30-40% of students
	>60% marks	getting >60% marks	getting >60% marks
С	80% of studentsgetting	60-80% of students	40-60% of students
	>60% marks	getting >60% marks	getting >60% marks

For the specific CO/LO attainment levels of your respective course please use the above tables as reference according your subject difficulty level and prepare following 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	Post	Quiz1	Quiz	PreMid	Post	Assig	Assign	Worksh	Semin	Project	Trainin	Discussio	Mid1	Mid2	Ind.
	MidI	MidI		2	II Test	MidII	nmen	ment2	op	ar		g	n			visit
	Test	Test				Test	t1									
CO1																
CO2																
CO2 CO3																
CO4																
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, determinetargets for each CO as average of targets of 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																

12. Activity wiseAssessment Tools:

Thisgivesyougeneralizedviewofdifferent direct andindirect toolsthose canbe usedforassessment /achievementof CO/PO.(Decidewhichtoolsarerequiredforassessing aparticular CO/LO and in reference to Course A, B, Cdifficulty level).

Sr. No.	Activity	Assessment	Tools	Weightage	Recommendation
	•	Method		Marks	
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/	Marks/	any	ForLO
		Indirect	Rubrics		
18.					
	for every rubricsyou no angeofmarksorweightage				

13. COAssessment Process:

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

13.1 AttainmentofCOs

13.1.1 AttainmentTableforCO1: 3CSA101.1

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.ofStude	nts attaine	dlevel3=		•	%ofStudents A	AttainedL	evel3=				
	No.ofStude	nts attaine	dlevel2=		(%ofStudents A	AttainedL	evel2=				
	No.ofStudents attainedlevel1= %ofStudents AttainedLevel1=											
	TargetAchi	eved= ?(C	heck Level3%a	attainmen	t-IfNoFi	ndGap)						

(Repeat it forall other COs, (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 decided and conducted for improvements. Reason should be noted why /how is is improved or not.

13.2 Attainment of POs&PSO:

13.2.1 Target-ExpectedAttainmentof PObyattainmentof CO- Put allmappingsof 3, 2 and 1. Based on CO-POmapping, determine targets for each POasaverage of targets of all relevant COs.

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

13.2.2 Attainmentof POs&PSOthroughCOasContinuousEvaluation:

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

CO						P	O						PSO			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
4CSA101.1																
4CSA101.2																
4CSA101.3																
4CSA101.4																
4CSA101.5																
ObtainAvg. PO/PSO Attainment	Achiev ed	Achie ved	Achi eved	Achi eved	Achi eved	Achie ved	Achi eved	Achi eved	Achie ved	Achie ved	Achie ved	Achie ved	Achie ved	Achiev ed	Achie ved	

13.2.3 POGapIdentification:

					P	O				PSO		
	PO1	PO2	PO3	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 Decided to bridge the gap

Pleasedoanalyzewhetheryoucouldget improvement throughactivities decided and conducted for improvements. Reason should be noted why /how it is improved or not.

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

13.3 Attainmentof COthrough RTUExam:

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

Name1	Student	RTUMarks	%0f	Levelof Attainment
Name2 2 Name3 1 Name4 2 Name5 1 Name6 2 No.ofStudentsattainedlevel3= % of StudentsAttainedLevel2 No.ofStudentsattainedlevel2= % of StudentsAttainedLevel2 No.ofStudentsattainedlevel1= % of StudentsAttainedLevel1	Student			
Name3 1 Name4 2 Name5 1 Name6 2	Name1			3
Name4 2 Name5 1 Name6 2 No.ofStudentsattainedlevel3= % of StudentsAttainedLevel2 No.ofStudentsattainedlevel2= % of StudentsAttainedLevel2 No.ofStudentsattainedlevel1= % of StudentsAttainedLevel1	Name2			2
Name5 1 Name6 2	Name3			1
Name6 2 No.ofStudentsattainedlevel3= % of StudentsAttainedLevel2 No.ofStudentsattainedlevel2= % of StudentsAttainedLevel2 No.ofStudentsattainedlevel1= % of StudentsAttainedLevel1	Name4			2
No.ofStudentsattainedlevel3= % of StudentsAttainedLevel2 No.ofStudentsattainedlevel2= % of StudentsAttainedLevel2 No.ofStudentsattainedlevel1= % of StudentsAttainedLevel1	Name5			1
No.ofStudentsattainedlevel3= % of StudentsAttainedLevel2 No.ofStudentsattainedlevel2= % of StudentsAttainedLevel2 No.ofStudentsattainedlevel1= % of StudentsAttainedLevel1	Name6			2
No.ofStudentsattainedlevel3= % of StudentsAttainedLevel2 No.ofStudentsattainedlevel2= % of StudentsAttainedLevel2 No.ofStudentsattainedlevel1= % of StudentsAttainedLevel1				
No.ofStudentsattainedlevel2= % of StudentsAttainedLevel2 No.ofStudentsattainedlevel1= % of StudentsAttainedLevel1				
No.ofStudentsattainedlevel1= % of StudentsAttainedLevel1	No.ofStudentsattain	edlevel3=	% of Stu	dentsAttainedLevel3=
	No.ofStudentsattain	edlevel2=	% of Stud	lentsAttainedLevel2=
COAttainment= 2(Check Level3%attainment-IfNoFindGan)	No.ofStudentsattain	edlevel1=	% of Stud	lentsAttainedLevel1=
(Circuit 20 (Circu	COAttainment= ?(Checl	k Level3%attainment-If	NoFindGap)	

13.3.1 Attainmentof COthrough RTU Component:

CO: Course C	Code: Cour	seName		
Target				
Achieved				
Gap				

13.3.1 GapsforCOattainmentthroughRTUComponent:

AnalyzeRTUQuestion paperwithrespecttoCOsformulated,contentsdeliveredand studentsexamined,findout reasonsforgaps

i.

ii.

13.3.2 Action to betaken:

Prepare recommendations for improvement in planning & teaching for gaps identified.

13.4 Attainment of POthrough CO(RTU) Component

Put RTU Resultsaspertarget achievedonlyandmapping level, infollowing table

	Attainmentof POthroughCO(RTU) Component																
CO	CO PO														PSO		
	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12														PSO3		
4CSA101	CSA101																

	Attainmentof POthroughCO(RTU) Component																
4CSA101															PSO		
	PO1	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12													PSO3		
Targets																	
Achieved																	
Gap																	

13.4.1 GapsinPOthroughCOfromRTUcomponent:

Analyze RTU Question paper with respect to COs formulated &mapped, contents deliveredandstudentsexamined, findout reasons for gaps

Describe what are the reasons for gap i.

ii.

13.4.2 Action to betaken:

Prepare recommendations for improvement in planning & teaching for gaps identified.

13.5 Overall Attainment of PO&PSO: Through Continuous Assessment &RTU

While combining attainment through Continuous evaluation and RTU component, following weightagebe considered.

- 1. Internal Assessment–Totalweightage-40%
- 2. RTU Component----- Weightage- 60 %

Put all attainments in the following table and compute.

13.5.1: Table1

	RTUCompo	nent		Interna	lAssessm	ent		
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.ofStude	 entsattainedlev	vel3=		(/ % of Stud	 dentsAttaineo	lLevel3=	
No.ofStude	entsattainedlev	el2=		9/	6 of Stud	entsAttained	Level2=	
No.ofStude	entsattainedlev	vel1=		(% of Stud	lentsAttained	lLevel1=	
	ent= ?(Check Leve		nent-IfNoFindG	Sap)				
MarkXtorat	osent-Takeavg.ofa	upresent						

OR

13.5.2: Table2

		RTU		Inter	nal		Interi	nal		Interr	nal			
					'Activit			Activit			Activit			
				(Wei	ghtage'	%)	(Weig	htage%	%)	(Weig	htage	%)		
Student	RTU Mark s (80)	%0f Marks	60% Weight age X /100 A	Over all CO ()	%0f Marks	Weight age X /100	Overall CO ()	%0f Marks	Weight age X/100	Overal 1 CO ()	%0f Mark s	Weighta ge X/100	Total (A+B+C+ D)	Level of Attainmen t
Name1														3
Name2														2
Name3														1
Name4														2
Name5														1
Name6														2

No.of Students attainedlevel3=	%of
StudentsAttainedLevel3=	
No.of Students attainedlevel2=	% of
StudentsAttainedLevel2=	
No.of Students attainedlevel1=	% of
StudentsAttainedLevel1=	
POAttainment= ?(Check Level3%attainment-IfNoFindGap)	
MarkXforabsent-Takeavg.ofallpresent	

13.5.3: OverallPO&PSOAttainment through Course:

Put Overall PO&PSOattainment aspermapping 3,2,1above:

Attainment	of Ov	erall	POf	orSes	sion2	018-2	2019									
CO		PO PSO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
4CSA101																
PO																
Attainment																

13.5.4: Overall Gaps for Attainment of PO and PSO from the Course

Put Overall PO & PSO targets & attainment as per mapping 3,2,1 above:

Attainment	Attainment & Gap of Overall PO Session														
4CSA101		PO													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Targets															
Achieved															
Gap															

13.5.5. Overall Gaps for Course taught:

Go through all gaps identified above and summarize. Describe what the reasons are.

i.

ii.

13.5.6 Action to be taken:

Prepare recommendations for improvement in planning & teaching (Internal & RTU) for gaps identified. Decide Activities to be conducted to bridge the gaps in COs.

Repeat whole process after One year before, Two year before, and three year before. Plot bar charts for Continuous improvements checkin CO, PO&PSO. (Every Year).

14 File Formats

14.1 <u>List of File Formats</u>

- 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

Curriculum Delivery Plan

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14.2 Front Page of Course File



TEACHING MANUAL

COURSE:	
SEMESTER:	
SUBJECT:	
SUB. CODE:	
CONTENT:	Syllabus, Blown-up, Deployment, Zero Lectures,
Detailed lecture no	tes with cover page, Tutorial/Home-Assignment Sheets
	SESSION: 20
NAME OF FACULTY: _	
DEPARTMENT:	
CAMPUS:	

14.3 ABC Analysis Format



DEPARTMENT OF COMPUTER ENGINEERING

Odd Semester 2020-21

ABC Analysis (RGB method)

Course: B. Tech, Semester/ Section - 2nd/3C Date21/09/2021

Name of Faculty: Dr. Nikita Jain Name of Subject: SE Code: 3CS4-07

S.ne.	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 industrial 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	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

14.4 Blown-up Format



DEPARTMENT OF COMPUTER ENGINEERING COURSE BLOWN UP

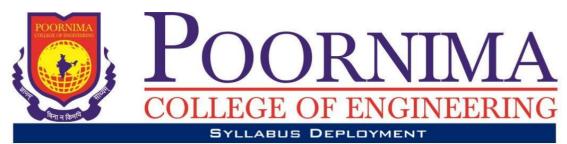
Course: B.Tech. Semester/Section – 3 C Date: 9 Aug2022

Name of Faculty: Dr.Nikita Jain Name of Subject: Software Code: 3CS4-07

Engineering

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: Software life-cycle models, software requirements specification, formal requirements specification, verification and validation.	1.1 Software Development life cycle Phases 1.2 Waterfall model 1.2.1 Phases, Need 1.2.2 Advantages, Disadvantages 1.3 Prototype model and spiral model 1.3.1 Phases, Need 1.3.2 Advantages, Disadvantages 1.4 Iterative Enhancement Model 1.4.1 Phases, Need 1.4.2 Advantages, Disadvantages 1.5 Verification and Validation Model 1.5.1 Phases, Need 1.5.2 Advantages, Disadvantages 1.6 SRS, FRS 1.6.1 SRS Components

14.5 <u>Deployment Format</u>



C	ampus: PCE Course: B.Tech.		Class/S	Section: VI th sem./A		Date: 05/	01/2022
N	Name of Faculty: XYZ		Name of Subject: Cloud Computing			Code: 60	CS04-05
S.No.	TOPIC AS PER BLOWNUP SYLLABUS	LECT . NO.	со/го	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	
2	Introduction to Unit:1 Introduction of the lecture			8 2	1		
3	Conclusion of the lecture Brief of next lecture Introduction of the lecture	10 17		Q V	&		
4	Conclusion of the lecture Brief of next lecture Introduction of the lecture	C	A	W.			
5	Conclusion of the lecture Brief of next lecture Introduction of the lecture						
6	Conclusion of the lecture Brief of next lecture Introduction of the lecture						

14.6 Zero Lecture Format



ZERO LECTURE

			Session:	20 - (Sem.)		
Cam	pus:		. Course:		Class/S	ection:		
Nam	e of Fac	ulty:						
				Zero Lec	ture			
1). N	ame of Su	bject:		Co	de:			
a). No b). Qo c). Do d). Re e). E- f). Of taken and In	ualification esignation esearch Ar mail Id: her detail , Member nternationa troductio	n: :ea: s: Informati of Professio	nal body, Acade/Journals etc.	s of proficienc demic Proficier				
Sr. No.	Average result of 12 th	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
4). In subject a). Re b). Re c). Re d). Re	struction: atroduction cts and gro- elevance to elevance to elevance to elevance to	al Language on to subject oup/place the objective object	t:%En t: - (Pl. separ em appropriate	***	Hindi (Englis	h not less tha	ın 60%)	
6). Sy	llabus							
	nit Name: BC an <mark>a</mark> lysi	is (RGB meti	hod) of unit &	topics				

Curriculum Delivery Plan 78

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

a). Recommended Text & Reference Books and Websites:

S. No.	Title of Book	Authors	Publisher	Cost (Rs.)	No. of books in Library
Text Book	S	***	-		
T1					
T2		1		50 (c)	
T3					
Reference	Books				
R1				51 38	
R2					
R3			3		
Websites r	related to subject		55	192	
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
 - Ouiz 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.
 - 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.

- 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

Ist 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).

IInd 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).

IIIrd 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

14.7 <u>Lecture Note Front page Format</u>



LECTURE NOTES

ampus: Course:	Class/Section:	Date:
te (Prep.): Date (Del.):	Unit No.:Lect.	No:
OBJECTIVE: To be written before taking the lewill be taught in this lecture)	cture (Pl. write in bullet points the main topics/co	oncepts etc., which
IMPORTANT & RELEVANT QUESTIONS:		
<u> </u>		
FEED BACK QUESTIONS (AFTER 20 MINU	UTES):	
		
OUTCOME OF THE DELIVERED LECTUR students' feedback on this lecture, level of unders		e in bullet points abo
REFERENCES: Text/Ref. Book with Page No. 2	and relevant Internet Websites:	

13.7.82 Detailed Lecture Note Format-



DETAILED LECTURE NOTES

		1.00
Campus: Course:	Class/Section:	Date:
Name of Faculty:	Name of Subject:	Code:

13.7.83 Detailed Lecture Note Format-



DETAILED LECTURE NOTES PAGE NO.

13.8 Assignment Format



		Assignment Sheet-1			
Camp	us: PCE Course: B.Tech.	Class/Section: III	Date:		
Name	of Faculty:	Name of Subject:	Co	ode:	
Date o	f Preparation:	Scheduled Dat	te of Submission:		
Q. No.		Questions	COs	POs	PSOs
				- 0	
	S 1			3	
0					

13.9 Tutorial Format



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

13.10 Mid Term/ End Term Practical Question Paper Format

POORNIMA COLLEGE OF ENGINEERING, JAIPUR

III B.TECH. (VI Sem.)

SET- A

FIRST MID TERM PRACTICAL EXAMINATION 2021-22
Code: 3CS4-07 Category: PCC Subject Name: Software Engineering
(BRANCH - Computer Engineering

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				
4				
Q.2				
Q.3				

POORNIMA COLLEGE OF ENGINEERING, JAIPUR

III B.TECH. (VI Sem.)

SET- B

FIRST MID TERM PRACTICAL EXAMINATION 2021-22
Code: 3CS4-07 Category: PCC Subject Name: Software Engineering
(BRANCH - Computer Engineering

Max. Time: 60 Minutes

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

Max. Marks: 22 + 8 (Viva) = 30

Q. No.	Question	Marks	LO	PO
Q.1				
0.2			-	_
Q.2				
Q.3				
			I	I

13.11 Mid Term Theory Question Paper Format

POORNIMA COLLEGE OF ENGINEERING, JAIPUR

	r continuit collect of Literature, com on		
II B.TECH. (III Sem.)		Roll No.	

SECOND MID TERM EXAMINATION 2021-22
Code: 3CS1-01 Category: PCC Subject Name-ADVANCE ENGINEERING MA

Code: 3CS1-01 Category: PCC Subject Name-ADVANCE ENGINEERING MATHEMATICS -I (BRANCH - Computer Engineering)

Course Cred Max. Mark

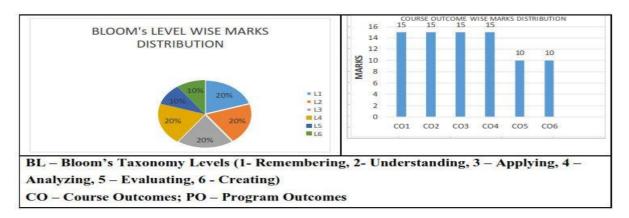
Max. Time: 2 hrs.

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
Q.1		2		
Q.2		2		<u> </u>
Q.3		2		
Q.4		2		
				\vdash
Q.5		2		
Q.6	PART - B: (Attempt 4 questions out of 6) Max. Ma	arks (20) 5	ı -	
4.0				\vdash
Q.7		5		
Q.8		5		
Q.9		5		
Q.10		5		
Q.11		5		
	PART - C: (Attempt 3 questions out of 4) Max. Max. Max. Max. Max. Max. Max. Max.	arks (30)		
Q.12		10		
Q.13		10		
Q.14		10		
Q. 15		10	\vdash	\vdash



13. List of Important Links

<u>List of Important Links</u>				
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/Download s.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				