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Recognized by UGC under Section 2(f) of the UGC Act, 1956

Curriculum Delivery Plans (CDPs) Department of Information Technology

(Odd & Even Semester 2021-22 & Odd Semester 2022-23)



DEPARTMENT OF INFORMATION TECHNOLOGY

CURRICULUM DELIVERY PLAN

OUTLINE-ODD SEM-2021-22



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

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Dr. Mahesh Bundele

cornima College of Engineering

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Poornima College of Engineering, Jaipur

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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 Vision & Mission Statements

2.1 Vision & Mission Statements of the Institute

Vision of Institution

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

Mission of Institution

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

2.2 Vision & Mission Statements of the Programme B. Tech. (Information Technology)

2.2.1 Vision of Department

To attain distinction in education to enable students for their establishment as **globally competent professional** and empowering them with proficiency, **knowledge** and **research ability** required to be successful in field of Information Technology.

2.2.2 Mission of Department

- To provide state-of-the-art facilities with modern IT tools to students and faculty thereby enabling them to develop sustainable solutions for real world problems.
- 2. To create and propagate knowledge in field of Information Technology through **research**, **teaching** and **learning** for meeting **societal challenges**.
- 3. To inculcate **analytical**, **leadership** and **team working** skills with **ethical behavior** in students and provide an environment for **continuous learning**.

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2.2.3 PEO of the Department

Program Educational Objectives (PEOs

- 1. **PEO 1**: Graduate will have Fundamental & multidisciplinary knowledge with an ability to analyze, design, innovates and handles the realistic problems.
- 2. **PEO 2**: Graduate will possess ethical conduct, sense of responsibility to serve society and protect the environment.
- 3. **PEO 3**: Graduate will have strong foundation in academics, leadership qualities and lifelong learning for a prosperous professional career.

2.2.4 Program Specific Outcome (PSOs)

- **PSO1.** Design, analyze and innovate solutions to technical issues in Thermal, Production and Design Engineering.
- **PSO2.** Exhibit the knowledge and skills in the field of Mechanical & Allied engineering concepts.
- **PSO3.** Apply the knowledge of skills in HVAC&R and Automobile engineering.

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 Information Technology, 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-IT	Chairman, IQAC	Dr. Mahesh M. Bundele (Principal & Director, PCE)	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
2	Member Secretary	Chairman, DAB- IT	Dr. Gajendra Singh Rajawat Head, Department of Information Technology	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
3	Faculty	Chairman, DAB-	Dr. Nitesh Kaushik	Poornima College of

	rangaantatiya 1	IT	ProfIT	Engineering ISL6 DUCO Inst
	representative-1		PIOI11	Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
4	Faculty representative-2	Chairman, DAB- IT	Mr. Amol Saxena Asst. ProfIT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
5	Faculty representative-3	Chairman, DAB- IT	Ms. Shazia Haque Asst. ProfIT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
6	Faculty representative-4	Chairman, DAB- IT	Mr. Shirish Nagar Asst. Prof IT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
9	Special Invitee	Chairman, DAB- IT	Dr. Rekha Nair Dean I Year, Poornima College of Engineering, Jaipur	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
10	Alumni Representative-1	Chairman, DAB-IT	Prabhav Jain (2020 passout)	Celebal
11	Alumni Representative-2	Chairman, DAB-IT	Ayush Trivedi (2020 passout)	CITICORP SERVICES PVT. LTD.
12	Student Representative	Chairman, DAB- IT	Tilak Atri (2024 batch)	Third Year ECE
13	Industry Representative	Chairman, DAB-IT	Mr. Aniruddh Agarwal, Founder & CEO, Extern Labs Private Limited, Jaipur	CEO, Extern Labs Private Limited, Jaipur
14	Parents Representative-1	Chairman, DAB-IT	Mr. Rakesh Singh Chandawat (F/o Harshvardhan Singh Chandawat), A-39, Ganesh Nagar New Sanganer Road, Sodala Jaipur	A-39, Ganesh Nagar New Sanganer Road, Sodala Jaipur 302019 Rajasthan

			302019 Rajasthan	
15	Parents Representative-2	Chairman, DAB-IT	Mr. Mahesh Khandelwal (F/o Yashika Khandelwal) C 74, Pani Pech Prem Colony, Nehru Nagar Jaipur 302016 Rajasthan	C 74, Pani Pech Prem Colony, Nehru Nagar Jaipur 302016 Rajasthan

3.1.4 Meeting Frequency & Objectives

Meeting	Meeting	Meeting	Meeting Objective
No.	Code	Month-Week	
1.	DAB-1	July	Consideration of gaps and proposed activities by PAC last
		First Week	meeting to be implemented in DAC and CDP.
			 Prepares final draft of CDP and DAC to be proposed in
			upcoming IQAC meeting
2.	DAB-2	September	• Approval / Suggestions of proposals from last PAC Meeting.
		Second Week	• Revision of DAB Drafts for being proposed in upcoming GC
3	DAB-3	December	Draft preparation for DAC and CDP for upcoming semester
		First Week	after considering inputs from PAC.
			• Review Semester closure draft from PAC.
4.	DAB-4	April Last	Draft of PCE Academic Calendar and CDP proposed
		Week / May	 Previous session closure with gaps and feedback.
		First Week	• Completion of ATR-2 for current semester based on last GC
			sessions 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 predefined methods.
- **4.** Execute Industry-Institute Interactions to enhance the employability thereby meeting the industry standards and requirements.
- 5. Implement Curriculum Delivery Plan & Department Academic Calendar.

3.2.3 Department-Wise Composition

S. No.	Category	Nominated by	Name of Members	Address
1	Chairman, PAC-IT	Chairman, IQAC / Head of Institution	Dr. Gajendra Singh Rajawat Head, Department of Information Technology	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
2	Member Secretary	Chairman, PAC-IT	Dr. Nitesh Kaushik ProfIT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
3	Faculty representative-1	Chairman, PAC-IT	Dr. Sandeep Bhargava Assoc. Prof IT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
4	Faculty representative-2	Chairman, PAC-IT	Mr. Shirish Nagar Asst. Prof IT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
5	Faculty representative-3	Chairman, PAC-IT	Ms. Shazia Haque Asst. ProfIT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur

3.2.4 Meeting Frequency & Objectives

Meetin	Meetin	Meeting	Meeting Objective		
g	g	Month-			
No.	Code	Week			
		July	Execution of Academic, Extra and Co-Curricular activities		
1	PAC-1		Regular assessment of Academic, Extra and Co-Curricular activities		
1.		Last Week	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
	DAG 3	August	Regular assessment of Academic, Extra and Co-Curricular activities
2.	PAC-2	Last Week	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
			Regular assessment of Academic, Extra and Co-Curricular activities
		September	Regular calculation of attainments
3	PAC-3	Last Week	Revision of academics gaps as previous attainment
		Last Week	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
4.	PAC-4	October	suggestions in GC
4.	1 AC-4	Last Week	Regular assessment of Academic, Extra and Co-Curricular activities
			Regular calculation of attainments
			Revision of academics gaps as previous attainment
			Revision of academics gaps as previous attainment
		November	Regular assessment of Academic, Extra and Co-Curricular activities
5.	PAC-5	Third	Identification and proposal of gaps and activities to be considered by DAB to
J.	PAC-3	Week	prepare Department Academic Calendar and CDP for upcoming semester.
			Semester closure report draft to be prepared
			Elective proposals/CBCS
		December	Incorporation of suggestions from IQAC and DAB meetings in execution of
			Semester activities
6.	PAC-6	Third	Execution and assessment of Academic, Extra and Co-Curricular activities
		Week	Revision of academics gaps as previous attainment
			Calculation of attainments
			Execution of Academic, Extra and Co-Curricular activities
		Ignuary	Regular assessment of Academic, Extra and Co-Curricular activities
7.	PAC-7	January Last Week	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
		February	Regular assessment of Academic, Extra and Co-Curricular activities
8.	PAC-8	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
			Regular assessment of Academic, Extra and Co-Curricular activities
9.	PAC-9	March	Regular calculation of attainments
9.	FAC-9	Last Week	Revision of Academics gaps
			Prepared regular report of program for all assessment, attainment & gaps
			Draft preparation of Semester closure
		A*1	Execution of Academic, Extra and Co-Curricular activities
10	PAC-	April	Regular assessment of Academic, Extra and Co-Curricular activities
10.	10	Second	Regular calculation of attainments
		Week	Revision of Academics gaps
	10	Week	
		1	I Salar or venanting Pubs

			Prepared regular report of program for all assessment, attainment & gaps
11.	PAC- 11	May Last Week	 Execution of Academic, Extra and Co-Curricular activities 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 Report submission of Semester closure Identification and proposal of gaps and activities to be considered by DAB to prepare Department Academic Calendar and CDP for upcoming semester.
12.	PAC- 12	June Last 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>

Sr. No.	Faculty Name	Emp.ID	Designation	Email ID	Mobile No.
1.	MR. AMOL SAXENA	1114	ASST PROFESSOR	amolsaxena@hotmail.com	9982776883
2.	MS. SHAZIA HAQUE	1218	ASST PROFESSOR	shaziahaque@hotmail.com	9829318125
3.	MR. PRAVEEN KR. YADAV	1347	ASST PROFESSOR	praveen.yadav@poornima.org	9057571954
4.	MR. SHIRISH NAGAR	1685	ASST PROFESSOR	shirishnagar83@gmail.com	8003514249
5.	MS. SITA GUPTA	3640	ASST PROFESSOR	sita.gupta@poornima.org	9785404340
6.	MR. SANDEEP BHARGAVA	5990	ASST PROFESSOR	sandeep.bhargava@poornima.org	8118864109
7.	Dr. GAJENDRA SINGH RAJAWAT	6698	HOD & PROFESSOR	gajendra.rajawat@poornima.org	9414719108
8.	Ms. SNEHAL MOGHE	6994	ASST PROFESSOR	snehalmoghe1411@gmail.com	9630041244
9.	Dr. NITESH KAUSHIK	5792	PROFESSOR	nitesh.kaushik@poornima.org	9351345599
10.	MR. PRINCE DAWAR	3453	ASST PROFESSOR	dawarprince83@gmail.com	8440964941
11.	MS. KALPANA SHARMA	6050	ASST PROFESSOR	klpna.sharma88@gmail.com	9413077523
12.	Dr. RANDHIR SINGH BAGHEL	5846	ASSOCIATE PROFESSOR	randhirsingh.baghel@poornima.org	9827658770

Poornima College of Engineering, Jaipur

13.	Mr. SAURABH	3186	ASST PROFESSOR	saurabhanand@gmail.com	9783334004	
	ANAND	3100	ASSI PROFESSOR			1

5 <u>Institute Academic Calendar</u>

Dr. Mahesh Bundele

14 B.E., M.E., Ph.D.

Poornima College of Engineering
ISI-6, RIICO Institutional Area
Stlapura, JAIPUR



	AUGUST 2020										
Su	n	Mon	Tue	Wed	Thu	Fri	Sat				
30)	31					1				
2		3	4	5	6	7	8				
9		10	11	12	13	14	15				
16	6	17	18	19	20	21	22				
23	3	24	25	26	27	28	29				

SEPTEMBER 2020											
Sun	Mon	Tue	Wed	Thu	Fri	Sat					
		1	2	3	4	5					
6	7	8	9	10	11	12					
13	14	15	16	17	18	19					
20	21	22	23	24	25	26					
27	28	29	30								

OCTOBER 2020											
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					

NOVEMBER 2020										
Sun	Mon	Tue	Wed	Thu	Fri	Sat				
1	2	3	4	5	6	7				
8	9	10	11	12	13	14				
15	16	17	18	19	20	21				
22	23	24	25	26	27	28				
29	30									

DECEMBER 2020										
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 2020-21

ODD SEMESTER

July, 2020

First Day, B. Tech. III, V and VII Sem. Wednesday, July 01 RTU THEORY EXAMINATION OF VIII SEMESTER [EVEN]**

August, 2020

Celebration of Independence Day Saturday, 15 RTU THEORY EXAMINATION OF II, IV, VI SEMESTER [EVEN] **

September, 2020

Monday, 21 First Day, B. Tech. I Sem. Orientation programme Wednesday, 02, to Saturday, 19 Saturday, 5

Faculty Felicitation Program, Celebration of Teacher Day, Blood Donation Camp & activities under WIS

Saturday, 26, to Thursday, 01 (Oct.) First Mid Term Examination for B.Tech V & VII Sen

October, 2020

Annual Day KALANIDHI 2020 & Prize distribution Friday, 2

ceremony \$

Monday, 5 Manthan-Inter-college Debate Competition \$

Monday, 19 to Saturday, 24 Department Day (PCE) \$ Friday, 23 to Saturday, 24 Department Day (PIET) \$

Monday, 26 to Saturday, 31 First Mid Term Examination for B.Tech III Sem

November, 2020

Monday, 02 to Saturday, 07

First Mid Term Theory & Practical Exam for B.Tech

Thursday, 19 to Wednesday, 25 Thursday, 26 to Tuesday01 (Dec.) Second Mid-Term Examination for B.Tech V & VII : Second Mid-Term Examination for B.Tech III Sem

December, 2020

Wednesday, 02 to Monday, 07 Friday, 4 Saturday, 05 to Wednesday 09 Thursday, 24 Saturday, 26 to Wednesday, 30

4.

5.

Second Mid-Term Examination for B.Tech I Sem Last Teaching Day for B.Tech V & VII Sem End-Term Practical Exams for B.Tech V & VII Sem Last Teaching Day for B.Tech I & III Sem End-Term Practical Examination for B.Tech I & III S

JANUARY/FEBUARY 2021

Monday, 11 (Jan.) Commencement of Classes for Even Semesters (session 2020-21) VI & VIII Semester

Monday, 01 (Feb.) Commencement of Classes for Even Semesters

(session 2020-21) II & IV Semester

HOLIDAYS IN ODD SEMESTER 2020-21

1. Bakri Id / Eid ul-Adha Saturday, August 1, 2020 2. Raksha Bandhan Monday, August 3, 2020 3. Vijay Dashmi Sunday, October 25, 2020

Thursday, 10, 12 227, 10 10-8day, Nov. 17, 202 Diwali Break Christmas

Frida Dr. Mahesh Bundele HOLIDAYS IN EVEN SEMESTER MORE BELLINIE, Ph.D.

Poornima College of Engineering Not. 131-6, Full Co. Institutional Area Winter Break byRTU, KOT/Stapura, MAIR Unassion 2020

6 Department Activity Calendar

	Poornima College of Engineering, Jaipur Calendar for Information Technology : Odd Semester - Session 2021-22										
(A) Academic Processes											
S. No.	Activity/ Process	B.Tech. I Sem.	B.Tech. III Sem.	B.Tech. V Sem.	B.Tech. VII Sem.						
1	Date of Registration & start of regular classes for students	Yet to be decided as per RTU calendar	Monday 20, September 2021	Monday 20, September 2021	Wednesday 01, September 2021						
2	Orientation programme	Yet to be decided as per RTU calendar	Monday 20 to Saturday 25, September 2021	Monday 20 to Saturday 25, September 2021	Wednesday 01 to Saturday 04, September						
3	Date of submission of question papers by faculty members to secrecy for 1st Mid-term		Saturday 30, October 2021	Saturday 30, October 2021	Monday 18, October 2021						
4	I Mid Term Theory & Practical Exam	Yet to be decided as per RTU calendar	Thursday 11 to Wednesday 17,	Thursday 11 to Wednesday 17,	Monday 25 to Saturday 30, October 2021						
5	Showing evaluated answer books of 1st Mid-term exam to students in respective classes		Wednesday 24, November 2021	Wednesday 24, November 2021	Wednesday 10, November 2021						
6	Last date of submission of Evaluated Answer Books and Mark of First Mid-term Theory & Practical exam to Exam and Secrecy Cell respectively	g	Monday 29, November 2021	Monday 29, November 2021	Monday 15, November 2021						
7	Date of submission of question papers by faculty members to secrecy for 2nd Mid-term		Monday 27, December 2021	Monday 27, December 2021	Saturday 11, December 2021						
8	Revision classes		To be declared later acco	rding to RTU Exam Sched	ıle						
9	Last Teaching Day	Yet to be decided as per RTU calendar	Saturday 15, January 2022	Saturday 15, January 2022	Saturday 25, December 2021						
10	2nd Mid-term theory & Practical Exams	Yet to be decided as per RTU calendar	Monday 03 to Saturday 08, January 2022	Monday 03 to Saturday 08, January 2022	Saturday 18 to Friday 24, December 2021						
11	End-Term Practical Exams	Yet to be decided as per RTU calendar	Thursday 20 Saturday 22, January 2022	Thursday 20 Saturday 22, January 2022	Monday 03 to Wednesday 05, January 2022						
		(B) Events and A	Activities								
12	Teachers Day Celebration	06 September 202									
13	Celebration of Engineers Day	15th September									
Alumni Session by Siddharth S. Nehra, 25th November Working as Lieutenant commander, Indian ,2021											
		(C) Holida	ays								
15	Eid-ul-Fitar	Wednesday, July 21,									
16	Raksha Bandhan	Sunday, August 22, 2									
17	Vijay Dashmi	Friday, October 15, 2									
18 19	Diwali Break	Monday, November (01 to Saturday, 06, 202	1							
			0 3								
	<u> </u>	'स्वच्छ भारत स	म्पन्न भारत"								

7 Teaching Scheme

7.1 RTU Teaching Scheme

Dr. Mahesh Bundele

17 B.E., M.E., Ph.D.

Poornima College of Engineering
181-6, Filico Institutional Area
Stlapura, JAIPUR



Teaching & Examination Scheme B.Tech.: Information Technology 2nd Year - III Semester

			THEO	RY							
SN	Categ		Course	_	onta			Ma	ırks		Cr
	ory	Code	Title	L	Т	P	Exm Hrs	IA	ETE	Total	CI
1	BSC	3IT2-01	Advanced Engineering Mathematics	3	0	0	3	30	70	100	3
2	HSMC	3IT1-02/ 3IT1-03	Technical Communication/ Managerial Economics and Financial Accounting	2	0	0	2	30	70	100	2
3	ESC	3IT3-04	Digital Electronics	3	0	0	3	30	70	100	3
4		3IT4-05	Data Structures and Algorithms	3	0	0	3	30	70	100	3
5	PCC	3IT4-06	Object Oriented Programming	3	0	0	3	30	70	100	3
6		3IT4-07	Software Engineering	3	0	0	3	30	70	100	3
			Sub Total	17	0	0					17
			•								
			PRACTICAL &	SESS	SION	IAL					
8		3IT4-21	Data Structures and Algorithms Lab	0	0	3		60	40	100	1.5
9	PCC	3IT4-22	Object Oriented Programming Lab	0	0	3		60	40	100	1.5
10		3IT4-23	Software Engineering Lab	0	0	3		60	40	100	1.5
11		3IT4-24	Digital Electronics Lab	0	0	3		60	40	100	1.5
13	PSIT	3IT7-30	Industrial Training	0	0	1		60	40	100	1
14	SODE CA	3IT8-00	Social Outreach, Discipline & Extra Curricular Activities	0	0	0				100	0.5
			0	0	13					7.5	
		TO	TAL OF III SEMESTER	17	0	13					24.5

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

ETE: End Term Exam, IA: Internal Assessment

Office of Dean Academic Affairs Rajasthan Technical University, Kota

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

Dr. Mahesh Bundele

18 Director
Peornima College of Engineering
131-6, FIICO Institutional Area
Stlapura, JAIPUR

Curriculum Delivery Plan



Teaching & Examination Scheme **B.Tech.**: Information Technology 3rd Year - V Semester

			THEO	RY							
			Course	С	ont	act		M	ırks		Cr
SN	Categ			hr	s/w	eek		MIS	ciks		CI
	ory	Code	Title	L	T	P	Exm Hrs	IA	ЕТЕ	Total	
1	ESC	5IT3-01	Microprocessor And Interfaces	2	0	0	3	30	70	100	2
2		5IT4-02	Compiler Design	3	0	0	3	30	70	100	3
3		5IT4-03	Operating System	3	0	0	3	30	70	100	3
4		5IT4-04	Computer Graphics & Multimedia	3	0	0	3	30	70	100	3
6	PCC/	5IT4-05	Analysis of Algorithms	3	0	0	3	30	70	100	3
7	PEC	Professions	al Elective 1 (any one)	2	0	0	3	30	70	100	2
		5IT5-11	Wireless Communication								
		5IT5-12	Software Testing and Project Management								
		5IT5-13	Bioinformatics								
			Sub-Total	16	0	0					16
			PRACTICAL &	ores	TON	***					
8	PCC	5IT4-21	Computer Graphics & Multimedia Lab	0	0	2	2	60	40	100	1
9	PCC	5IT4-22	Compiler Design Lab	0	0	2	2	60	40	100	1
10	PCC	5IT4-23	Analysis of Algorithms Lab	0	0	2	2	60	40	100	1
11	PCC	5IT4-24	Advanced Java Lab	0	0	2	2	60	40	100	1
12	PSIT	5IT7-30	Industrial Training	0	0	1		60	40	100	2.5
13	SODE CA	5IT8-00	Social Outreach, Discipline & Extra Curricular Activities						100	100	0.5
			Sub- Total	0	0	9					7
		Т	OTAL OF V SEMESTER	16	0	9					23

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 3rd Year B. Tech. (IT) for students admitted in Session 2021-22 onwards. Page 2

Dr. Mahesh Bundele

B.E., M.E., Ph.D. Director Peornima College of Engineering 131-6, FiliCO Institutional Area Stlapura, JAIPUR

Curriculum Delivery Plan



RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Scheme & Syllabus

IV Year- VII & VIII Semester: B. Tech. (Information Technology)

Teaching & Examination Scheme B.Tech.: Information Technology

4th Year - VII Semester

			THEO	RY							
SN	Categ		Course	_	ont:		Mark	Cr			
	ory	Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	PCC	7IT4-01	Big Data Analytics	3	0	0	3	30	120	150	3
2	OE		Open Elective - I	3	0	0	3	30	120	150	3
			Sub-Total	6	0	0	6	60	240	300	6
			PRACTICAL &	epe	STOR	TAT					
3	PCC	7IT4-21	Big Data Analytics Lab	0	0	4	2	60	40	100	2
4	PCC	7IT4-22	Cyber Security Lab	0	0	4	2	60	40	100	2
5	PSIT	7IT7-30	Industrial Training	1	0	0				125	2.5
6	PSIT	7IT7-40	Seminar	2	0	0				100	2
7	SODE CA	7IT8-00	Social Outreach, Discipline & Extra Curricular Activities			1				25	0.5
			Sub- Total	0	0	10	4	120	80	450	9
		TO	TAL OF VII SEMESTER	6	0	10	10	180	320	750	15

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

ETE: End Term Exam, IA: Internal Assessment

Dr. Mahesh Bundele

Curriculum Delivery Plan

Poornima College of Engineering ISI-6, RIICO Institutional Area Stapura, JAIPUR

8 PCE Teaching Scheme

		Poornima Jaipur																	
									Format for Teaching Scheme	of Odd Se	mester 2	2021-22							
orking Group	Year	Sem	Stud ents	Dept	١.	S	che	hing eme Credit	Course Name	Subject Code	No. of Sec	No. of Batch es	Batch Size (T/H/F)	Total Load (L)	Total Load (T)	Total Load (P)	Total Load (L+T+P)	Teaching Dept.	Cat.
CS/IT	2	3	65	IT	3	-	-	3	Advanced Engineering Mathematics	3IT2-01	1	3	F	3	3	0	6	Maths	BSC
					+	+	Н		Managerial Economics and Financial										
CS/IT	2	3	65	IT	2	0	0	2	Accounting	3IT1-03	1	3	F	2	0	0	2	Humanities	HSMC
CS/IT	2	3	65	IT	3		0	3	Digital Electronics	3lT3-04	1	3	F	3	3	0	6	EC	ESC
CS/IT	2	3	65	IT	3			3	Data Structures and Algorithms	3lT4-05	1	3	F	3	3	0	6	IT	PCC
CS/IT	2	3	65	IT	3			3	Object Oriented Programming	3lT4-06	1	3	F	3	0	0	3	IT	PCC
CS/IT	2	3	65	IT		0		3	Software Engineering	3lT4-07	1	3	F	3	0	0	3	IT	PCC
CS/IT	2	3	65	IT		0		1.5	Data Structures and Algorithms Lab	3lT4-21	1	3	T	0	0	9	9	IT	PCC
CS/IT	2	3	65	IT		0		1.5	Object Oriented Programming Lab	3lT4-22	1	3	T	0	0	6	6	IT	PCC
CS/IT	2	3	65	IT		0		1.5	Software Engineering Lab	3lT4-23	1	3	T	0	0	6	6	IT	PCC
CS/IT	2	3	65	IT		0		1.5	Digital Electronics Lab	3lT4-24	1	3	T	0	0	6	6	EC	ESC
CS/IT	2	3	65	IT	10	0	1	NA	Industrial Training/ NSP	3lT7-30	1	3	T	0	0	3	3	IT	PSIT
					T			-											
CS/IT	3	5	64	IT	4	0	0	2	Mic roprocessor And Interfaces	5IT3-01	1	3	F	4	0	0	4	EC	ESC
CS/IT	3	5	64	IT		0		3	Compiler Design	5lT4-02	1	3	F	4	0	0	4	IT	PCC
CS/IT	3	5	64	IT		0		3	Operating System	5lT4-03	1	3	F	3	0	0	3	IT	PCC
CS/IT	3	5	64	IT		0		3	Computer Graphics & Multimedia	5lT4-04	1	3	F	3	0	0	3	IT	PCC
CS/IT	3	5	64	IT	4	0	0	3	Analysis of Algorithms	5IT4-05	1	3	F	4	0	0	4	IT	PCC
CS/IT	3	5	64	IT		0		2	Software Testing and Project Management	5IT5-12	1	3	F	3	0	0	3	IT	PEC
CS/IT	3	5	64	IT		0		2	Wireless Communication	5IT5-11	1	3	F	3	0	0	3	IT	PEC
CS/IT	3	5	64	IT		0		1	Computer Graphics & Multimedia Lab	5IT4-21	1	3	T	0	0	6	6	IT	PCC
CS/IT	3	5	64	IT	0	0	2	1	Compiler Design Lab	5lT4-22	1	3	<u>T</u>	0	0	6	6	IT	PCC
CS/IT	3	5	64	IT		0		1	Analysis of Algorithms Lab	5IT4-23	1	3	T	0	0	6	6	IT	PCC
S/IT	3	5	64	IT		0		1	Advanced Java Lab	5IT4-24	1	3	T	0	0	6	6	IT	PCC
S/IT	3	5	64	IT	10	0	1	2.5	Industrial Training/ NSP	5lT7-30	1	3	T	0	0	3	3	IT	PSIT
OC /IT	A	7	25	IT.	-	0	_	0	Rig Data Analytics	7IT4 04	4	- 0	Г	0	0	0	0	IT.	PCC
CS/IT	4	7	35	IT		0		3	Big Data Analytics	7IT4-01	1	2	F	3	0	0	3	IT	
CS/IT	4	7	35	IT IT		0		3	Open Elective	7IT6-60.1	1	2	F	3	0	0	3	IT IT	OE PCC
CS/IT		7	35	IT		0		2	Big Data Analytics Lab	7IT4-21 7IT4-22	1	2	H	0	0	6	6		PCC
CS/IT	4	7	35 35	IT		0		2.5	Cyber Security Lab Industrial Training	7117-30	1	2	H	0	0	2	2	IT IT	PSIT
CS/IT	4	7	35	İT		0		2.0	Seminar	7IT7-40	1	2	H	0	0	4	4	IT	PSIT
CS/IT	4	7	35	İT		0		NA	Minor Project	7ITPR	1	2	H	0	0	6	6	IT	NA
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8.1 Marking Scheme

Fig. Subsect Fig. Wiss Test Attent Perf. Test Exp. Wiss Test Tes	Xam
IFY2-20	40
IFY2-22	40 1 40 1
IFY1-23	40 1 40 1
IFY3-24 Computer Programming Lab	40 1 40 1
IFY3-26 Manufacturing Practices Workshop	40 1 40 1
1FY3-26 Basic Electrical Engineering Lab 30 10 40 10 30 40 30 10	40 1 40 1
IFY3-27 Basic Civil Engineering Lab 30 10 40 10 30 40 30 10	40 1 40 1
IFY3-28	40 1 40 1
1FY3-29 Computer Aided Machine Drawing 30 10 40 10 30 40 30 10	40 1 40 1
SCE4-21 Surveving Lab	40 1 40 1 40 1 40 1 40 1 1 40 1 40 1
SCE4-22 Fluid Mechanics Lab	40 1 40 1 40 1 40 1 40 1 40 1 40 1 40 1
SCE4-23 Computer Aided Civil Engineering Drawing 30	40 1 40 1
SCE7.30 Training Seminar SCE7.30 SCE7.30 Training Seminar SCE7.30 SCE7.	40 1 40 1
SCE-1.30 Training Seminar Solution Sacility Solution Sacility Solution Sacility Solution Sacility Solution Sacility Solution S	1 40 1
SCS4-21 Data Structures and Algorithms Lab 30 10 40 10 30 40 30 10	40 1 40 1
Science Scie	40 1 40 1
SGS4-23 Software Engineering Lab 30 10 40 10 30 40 30 10	40 1 40 1
SCST-30 Training Seminar SCST-30 Training Seminar SCST-30 Training Seminar SCST-30 Training Seminar SCST-30 Training Seminar SCST-30 Training Seminar SCST-30 Training Seminar SCST-30 S	40 1 40 1
Sc Sc Sc Sc Sc Sc Sc Sc	1 40 1 40 1 40 1 40 1 40 1 40 1 40 1 40
SEC4-21 Electronics Devices Lab 30	40 11 40 11
SEC4-22 Digital System Design Lab	40 1 40 1 40 1 1 40 1 40 1 40 1 40 1 40
SEC3-24 Signal Processing Lab 30 10 40 10 30 40 30 10	40 1 40 1 1 40 1 40 1 40 1 40 1 40 1 40
SEC7-30	40 1 40 1 40 1 40 1 40 1 40 1 40 1 40 1
SEE4-21	40 1 40 1 40 1 40 1 40 1 40 1 40 1 40 1
SEE4-21 Analog Electronics Lab 30 10 40 10 30 40 30 10	40 1 40 1 40 1 40 1 40 1 40 1 40 1
SEEF-30 Electrical circuit design Lab 30 10 40 10 30 40 30 10 30 30 10 30 30 3	40 1 40 1 40 1 40 1 40 1 40 1
SEET-30	40 1 40 1 40 1 40 1 40 1
SIT4-21	40 1 40 1 40 1 40 1
3IT4-22 Object Oriented Programming Lab 30 10 40 10 30 40 30 10	40 1 40 1 40 1
Software Engineering Lab 30 10 40 10 30 40 30 10	40 1 40 1
3174-24 Digital Electronics Lab 30 10 40 10 30 40 30 10	40 1
SIT7-30	1
SME4-21 Machine drawing practice 30	40 1
3ME4-22	
3MET-30	40 1
SMET-30	40 1
SCE4-21	40 1
SCE4-22 Geotechnical Engineering Lab 22 8 30 8 22 30 22 8	1
Sec Sec	30 7
SCS4-21 Computer Graphics & Multimedia Lab 15 5 20 5 15 20 15 5 5 5 5 5 5 5 5	30 7
SCS4-21 Computer Graphics & Multimedia Lab 15 5 20 5 15 20 15 5 5 5 5 5 20 5 15 20 15 5 5 5 5 5 20 5 15 20 15 5 5 5 5 20 20 20 20	20 5
ScS4-22 Compiler Design Lab 15 5 20 5 15 20 15 5 5 5 5 5 5 20 15 5 5 5 5 5 5 5 5	20 5
SCS4-23	20 5
ScS4-24	20 8
Sec Sec	20 8
SEC4-21 RF Simulation Lab 22 8 30 8 22 30 22 8 8 8 8 8 8 8 8	1
SEC4-23	30 7
SECT-30 Industrial Training	30 7
SEE4-21	20 5
SEE4-22 Control System Lab	1 00
SEEE4-23 Microprocessor Lab 15 5 20 5 15 20 15 5 5 5 5 5 5 5 5	20 5
SEE4-24 System Programming Lab 15 5 20 5 15 20 15 5	20 5
SEET-30 Industrial Training	20 5
SIT4-21 Computer Graphics & Multimedia Lab 15 5 20 5 15 20 15 5	1
5IT4-22 Compiler Design Lab 15 5 20 5 15 20 15 5 SIT4-23 Analysis of Algorithms Lab 15 5 20 5 15 20 15 5 5IT4-24 Advanced Java Lab 15 5 20 5 15 20 15 5 5IT7-30 Industrial Training 75 50 50 5 15 20 15 5 5 20 5 15 20 15 5 5 5 20 5 15 20 15 5 5 5 20 5 15 20 15 5 5 5 20 5 15 20 15 5 5 5 20 5 15 20 15 5 5 5 20 5 15 20 15 5 5 5 20 5 15 20 15 5 5	20 5
5IT4-24 Advanced Java Lab 15 5 20 5 15 20 15 5 5IT7-30 Industrial Training 75 50 50 5 15 20 15 5 50 15 20 15 5 5 5 15 20 15 5 5 15 20 15 5 5 15 20 15 5 5 5 15 20 15 5 5 5 15 20 15 5 5 5 15 20 15 5 5 15 20 15 5 5 20 5 15 20 15 5 5 20 5 15 20 15 5 5 20 5 15 20 15 5 5 20 5 15 20 15 5 5 20 5 15 20 15 5 5 20	20 5
5IT7-30 Industrial Training 75 50 5ME3-21 Mechatronic Lab 15 5 20 5 15 20 15 5 5ME4-22 Heat Transfer lab 15 5 20 5 15 20 15 5 5ME4-23 Production Engineering Lab 15 5 20 5 15 20 15 5 5ME4-24 Machine Design Practice I 15 5 20 5 15 20 15 5	20 5
5ME3-21 Mechatronic Lab 15 5 20 5 15 20 15 5 5ME4-22 Heat Transfer lab 15 5 20 5 15 20 15 5 5ME4-23 Production Engineering Lab 15 5 20 5 15 20 15 5 5ME4-24 Machine Design Practice I 15 5 20 5 15 20 15 5	20 5
5ME4-22 Heat Transfer lab 15 5 20 5 15 20 15 5 5ME4-23 Production Engineering Lab 15 5 20 5 15 20 15 5 5ME4-24 Machine Design Practice I 15 5 20 5 15 20 15 5	1
5ME4-23 Production Engineering Lab 15 5 20 5 15 20 15 5 5ME4-24 Machine Design Practice I 15 5 20 5 15 20 15 5	20 8
5ME4-24 Machine Design Practice I 15 5 20 5 15 20 15 5	20 5
	20 5
5ME7-30 Industrial Training 75 50	20 5
SML 1-20 15 5 15 20 15 5 5 15 20 15 5 5 5 5 5 5 5 5	20 5
7CE4-22 Professional Practices & Field Engineering 15 5 20 5 15 20 15 5	20 5
7CE4-23 Soft Skills Lab 15 5 20 5 15 20 15 5	20 5
7CE4-24 Environmental Monitoring and Design Lab 15 5 20 5 15 20 15 5	20 5
7CE7-30 Practical Training 75 50	1
7CE7-40 Seminar 60 40	1
7CS4-21 Internet of Things Lab 30 10 40 10 30 40 30 10 10 10 10 10 10 10 10 10 10 10 10 10	40 1
7CS4-22 Cyber Security Lab 30 10 40 10 30 40 30 10 7CS4-22 Cyber Security Lab 30 10 40 10 30 40 30 10 10 10 10 10 10 10 10 10 10 10 10 10	40 1
7CS7-30 Industrial Training 75 50 7CS7-40 Seminar 60 40	1
	40 1
7EC4-21 VLSI Design Lab 30 10 40 10 30 40 30 10 7EC4-22 Advance communication lab (MATLAB 15 5 20 5 15 20 15 5	20 5
7EC4-22 Advance communication lab (MALAB 13 3 20 3 13 20 15 3 7EC4-23 Optical Communication Lab 15 5 20 5 15 20 15 5	20 5
7EC7-30 Industrial Training 75 50	1
7EC7-40 Seminar 60 40	1
7EE4-21 Embedded Systems Lab 30 10 40 10 30 40 30 10	40 1
7EE4-22 Advance control system lab 30 10 40 10 30 40 30 10	40 1
7EE7-30 Industrial Training 75 50	
7EE7-40 Seminar 60 40	1 40 1
7IT4-21 Big Data Analytics Lab 30 10 40 10 30 40 30 10	
7IT4-22 Cyber Security Lab 30 10 40 10 30 40 30 10	1 1 40 1
7IT7-30 Industrial Training 75 50	1 40 1 40 1
7IT7-40 Seminar 60 40	1 40 1 40 1
7ME4-21 FEA Lab 22 8 30 8 22 30 22 8	40 1 40 1 1 1
7ME4-22 Thermal Engineering Lab II 22 8 30 8 22 30 22 8	40 1 40 1 40 1 1 30 7
7ME4-23 Quality Control Lab 15 5 20 5 15 20 15 5	1 40 1 40 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7ME7-30 Industrial Training * 75 50	1 40 1 40 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7ME7-40 Seminar * 60 40 NOTE: - (1) In Attendance & Performance marks should be given on the basis of student overall performance in semester i. e. continuous evaluation.	1 40 1 40 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

NOTE: - (1) In Attendance & Performance marks should be given on the basis of student overall performance in semester i. e. continuous evaluation.

(2) In Common Pool marks should be given by HOD on the basis of student Assignment, Non Syllabus Activity, Online Exam Exam, Application/Survey / Case Study based Learning, Pre-Placement Activity, Department Level Career Oriented Activities through out the semester.

9 Department Load Allocation

POORNIMA COLLEGE OF ENGINEERING, JAIPUR										
Department of Information Technology										
		Class Wise Load Allotment	Se	SS	ioı	n 2021-22	2(ODD)			
Section	Subject Code	Subject Name				No. of Batches	Faculty Name			
Α	3IT2-01	Advanced Engineering Mathematics	3	1	0	3	Dr. Randhir Singh Baghel			
Α	3IT1-03	Managerial Economics and Financial Accounting	2	0	0	3	Kalpana Sharma			
Α	3IT3-04	Digital Electronics	3	1	0	3	Saurabh Anand			
Α	3IT4-05	Data Structures and Algorithms	3	1	0	3	Shazia Haque			
Α	3IT4-06	Object Oriented Programming	3	0	0	3	Snehal Moghe			
Α	3IT4-07	Software Engineering	3	0	0	3	Dr. Nitesh Kaushik			
Α	3IT4-21	Data Structures and Algorithms Lab	0	0	3	3	Shazia Haque			
Α	3IT4-22	Object Oriented Programming Lab	0	0	2	3	Snehal Moghe			
A	3IT4-23	Software Engineering Lab	0	0	2	3	Dr. Nitesh Kaushik			
A	3IT4-24	Digital Electronics Lab	0	0	2	3	Saurabh Anand			
A	3IT7-30	Industrial Training/ NSP	0	0	1	3	Sandeep Bhargava, Snehal Moghe			
A	5IT3-01	Microprocessor And Interfaces	4	0	0	3	Saurabh Anand			
A	5IT4-02	Compiler Design	4	0	0	3	Dr. Gajendra Singh Rajawat			
A	5IT4-03	Operating System	3	0	0	3	Sandeep Bhargava			
Α	5IT4-04	Computer Graphics & Multimedia	3	0	0	3	Sita Gupta			
Α	5IT4-05	Analysis of Algorithms	4	0	0	3	Shirish Nagar			
Α	5IT5-11	Wireless Communication	3	0	0	3	Saurabh Anand			
Α	5IT5-12	Software Testing and Project Management	3	0	0	3	Praveen Kr. Yadav			
Α	5IT4-21	Computer Graphics & Multimedia Lab	0	0	2	3	Sita Gupta			
Α	5IT4-22	Compiler Design Lab	0	0	2	3	Dr. Gajendra Singh Rajawat			
Α	5IT4-23	Analysis of Algorithms Lab	0	0	2	3	Shirish Nagar			
Α	5IT4-24	Advanced Java Lab	0	0	2	3	Sandeep Bhargava			
Α		Industrial Training/ NSP	0	0	1	3	Sandeep Bhargava, Praveen Kr.Yadav			
Α	7IT4-01	Big Data Analytics	3	0	0	2	Amol Saxena			
Α		Open Elective	3	0	0	2				
Α		Big Data Analytics Lab	0	_	3		Amol Saxena			
Α	7IT4-22	Cyber Security Lab	0	0	_	2	Praveen Kr. Yadav			
Α	7IT7-30	Industrial Training	0	0	_	2	Dr. Nitesh Kaushik, Sita Gupta			
Α	7IT7-40	Seminar	0	0		2	Sita Gupta,Shazia Haque			
	7ITPR	Minor Project	0	0	3	2				
A							Shirish Nagar(2), Amol Saxena(2), Sandeep Bhargava(2), Snehal Moghe(2)			

10 Time Table

10.1 Orientation Time Table

TIME TABLE -ODD SEM 2021-2022 <u>Orientation Programme (III Semester)</u> 20-22 September, 2021

Day/ Period	I 9:00-10:00	II 10:00-11:00	III 11:00-12:00		IV 12:30-1:30	V 1:30-2:30
MON 20/09/21	Tutor Interaction (Ms. <u>Shazia</u> Haque)	Placements/ GATE (Ms. Secta Gupta)	Project /NSP & its Importance (Dr. Gajendra Singh Rajawat)		3IT4-06 OOP (Mr. Amol Saxena)	3IT4-23 SE Lab (Dr.Gajendra Singh Rajawat)
TUES 21/09/21	Industrial Training & its guidelines (Ms. Shazia Haque)	HOD Interaction (Mr. Amol Saxena)	MOOC/ NPTEL/Add-on Courses (Ms. Shazia Haque	LUNCH 12:00-12:30	3IT4-05 DSA (Ms. Shazia Haque	3IT4-22 OOP Lab (Mr. Amol Saxena)
WED 22/09/21	Session on Recent Technologies in IT Sector and Entrepreneurship (Mr. Shirish Nagar)	3IT4-05 DSA (Ms. Shazia Hague)	3IT1-03 MEFA (Ms Kalpana Sharma)		3IT2-01 AEM (Dr.Shilpi Jain)	3IT4-07 SE (Dr. Gajendra Singh <u>Rajawat</u>)

3IT1-03: Managerial Economics and Financial Accounting, 3IT4-05: Data Structures & Algorithms, 3IT3-04: Digital Electronics, 3IT4-06: Object Oriented Programming, 3IT4-07: Software Engineering Lab, 3IT4-21: Data Structure Lab, 3IT4-24: Digital Electronics Lab, 3IT4-22: Object Oriented Programming Lab

POORNIMA COLLEGE OF ENGINEERING Department of Information Technology TIME TABLE -ODD SEM 2021-2022 Orientation Programme (V Semester)

20-22 September, 2021

Day/ Period	I 9:00-10:00	П 10:00-11:00	III 11:00-12:00		IV 12:30-1:30	V 1:30-2:30
MON 20/09/21	Tutor Interaction (Dr. <u>Gajendra</u> Singh <u>Rajawat</u>)	HOD Interaction (Mr.Amol Saxena)	MOOC/ NPTEL/Add-on Courses (Ms.Shazia Haque)	LUNCH 12:00- 12:30	5IT4-05 AOA (Mr. Shirish Nagar)	5IT4-03 OS (Mr. <u>Amol Saxena</u>)
TUES 21/09/21	Project /NSP & its Importance (Dr. Gajendra Singh Rajawat)	Placements/ GATE (Ms. <u>Seeta</u> Gupta)	Industrial Training & its guidelines (Dr.Gajendra Singh Rajawat)		5IT4-02 CD (Dr. Gajendra Singh <u>Rajawat</u>)	5IT4-04 CGMM (Ms. Seeta Gupta)

10.2 Academic Time Table

i) II Year III Semester (Online Mode)

AG-01

3IT1-03

MEFA (KS)

AG-01

i3 Day Activities

NK AG-25 A 3IT2-01

AEM (RS)

AG-01

FRI

SAT

POORNIMA COLLEGE OF ENGINEERING DEPARTMENT OF INFORMATION TECHNOLOGY TIME TABLE (ODD SEMESTER 2021-22) II Year (III Semester) w.e.f 06/09/2021 Tutor- Ms.Shazia Haque Room No. AG-01 Ш 11:30 Ш IV Day/ to 12:10 9:30-10:30 2:10-3:10 3:10-4:00 Period 8:30-9:30 10:30-11:30 12:10-1:10 1:10-2:10 3IT4-05 3IT4-06 3IT1-03 3IT3-04 3IT2-01 MON DSA (SH) OOP (SM) MEFA (KS) DE (SA) AEM (RS) AG-01 AG-01 AG-01 AG-01 AG-01 3IT4-07 3IT4-06 3IT2-01 31T4-21 DSA LAB (A1) S 3IT3-04 SE (NK) AEM (RS) TUE OOP (SM) 31T4-24 DE LAB (A2) S DE (SA) AG-01 AG-01 AG-01 31T4-22 OOP LAB (A3) AG-01 3IT4-05 3IT4-06 3IT4-07 3IT2-01 31T4-24 DE LAB (A1) S WED DSA (SH) SE (NK) AEM (RS) 31T4-23 SE LAB (A2)NK OOP (SM) 31T4-21 DSA LAB (A3) S AG-01 AG-01 AG-01 AG-01 31T4-23 SE LAB (A1) 3IT4-22 OOP LAB 3IT4-05 3IT4-07 3IT3-04 (A1) SM AG-25 B NK AG-25 A 31T4-22 OOP LAB (A2) 3IT4-21 DSA LAB THU SE (NK) DSA (SH) DE (SA) SM AG-25 B (A2) SH AG-25 C 31T4-23 SE LAB (A3) 31T4-24 DE LAB (A3)

3IT1-03: Managerial Economics and Financial Accounting, 3IT4-05: Data Structures & Algorithms , 3IT3-04: Digital Electronics, 3IT4-06: Object Oriented Programming, 3IT4-07: Software Engineering, 3IT2-01: Adv. Engg. Mathematics, 3IT4-23: Software Engineering Lab, 3IT4-21: Data Structure Lab, 3IT4-24: Digital Electronics Lab, 3IT4-22: Object Oriented

AG-01

3IT4-05

DSA (SH)

AG-01

SA AS-07

3IT3-04

DE (SA)

AG-01

i3 Day Activities

SH: Shazia Haque, RS: Dr. Randhir Singh Baghel, KS: Kalpana Sharma, SA: Saurabh Anand, SB: Sandeep Bhargava, NK: Dr. Nitesh Kaushik, SM: Snehal Moghe

AG-01

3IT4-06

OOP (SM)

AG-01

Seeta Gupta	Dr. Gajendra Singh Rajawat	Mr. Pankaj Dhemla	Dr. Mahesh M. Bundele
TT Coordinator, IT	Head of Department, IT	Vice Principal, PCE	Principal & Director, PCE

Dr. Mahesh Bundele B.E., M.E., Ph.D. Director Poornima College of Engineering 131-6, FUICO Institutional Area

Stapura, JAIPUR

ii) II Year III Semester (Hybrid Mode)

TT Coordinator, IT

Head of Department, IT

POORNIMA COLLEGE OF ENGINEERING DEPARTMENT OF INFORMATION TECHNOLOGY **TIME TABLE (ODD SEMESTER 2021-22)** Il Year (III Semester) (Online & Offline) w.e.f 04/10/2021 Tutor- Ms.Shazia Haque Room No. AG-01 11:30 Dav/ 8:30-9:30 9:30-10:30 10:30-11:30 to 12:10 12:10-1:10 1:10-2:10 2:10-3:10 3:10-4:00 Period 31T4-05 DSA (Tut. A1), 3IT3-04 DE (Tut. A1), 3IT4-22 OOP LAB (A1) SM AG-25 B 3IT4-24 DE LAB (A1) SA AS-07 SH, AG-25 A SA, AG-01 31T3-04 DE (Tut. A2), SA, 31T4-23 SE LAB (A2)NK AG-25 A 31T4-21 DSA LAB (A2) SH AG-25 C MON AG-01 3IT4-05 DSA (Tut 31T4-21 DSA LAB (A3) SH AG-25 C 31T4-23 SE LAB (A3) NK AG-25 A A3),SH, AG-02 Offline Classes (Labs/Tut) 3IT4-23 SE LAB (A1) NK AG-25 A 3IT4-21 DSA LAB (A1) SH AG-25 C 3IT7-30 31T4-22 OOP LAB (A2) SM AG-25 B 3IT4-05 DSA (Tut TUE Industrial Training/NSP 31T4-24 DE LAB (A2) SA AS-07 A2), SH, AG-02 (SB,SM) AG -03 31T4-24 DE LAB (A3) SA AS-07 31T3-04 DE (Tut 31T4-22 OOP LAB (A3) SM AG-25 B A3), SA, AG-01 3IT4-05 3IT4-07 3IT2-01 3IT4-06 3IT3-04 3IT1-03 WED DSA (SH) SE (NK) AEM (RS) DE (SA) OOP (SM) MEFA (KS) AG-01 AG-01 AG-01 AG-01 AG-01 AG-01 3IT4-07 3IT4-06 3IT2-01 3IT3-04 3IT4-05 3IT2-01 Online Classes THU SE (NK) OOP (SM) AEM (RS) DE (SA) DSA (SH) AEM (RS) AG-01 AG-01 AG-01 AG-01 AG-01 AG-01 3IT4-06 3IT2-01 3IT1-03 3IT4-05 3IT3-04 3IT4-07 FRI OOP (SM) AEM (RS) MEFA (KS) DSA (SH) DE (SA) SE (NK) AG-01 AG-01 AG-01 AG-01 AG-01 AG-01 SAT i3 Day Activities i3 Day Activities 3IT1-03: Managerial Economics and Financial Accounting, 3IT4-05: Data Structures & Algorithms , 3IT3-04: Digital Electronics, 3IT4-06: Object Oriented Programming, 3IT4-07: Software Engineering, 3IT2-01: Adv. Engg. Mathematics, 3IT4-23: Software Engineering Lab, 3IT4-21: Data Structure Lab, 3IT4-24: Digital Electronics Lab, 3IT4-22: Object Oriented Programming Lab SH: Shazia Haque, RS: Dr. Randhir Singh Baghel, KS: Kalpana Sharma, SA: Saurabh Anand, SB: Sandeep Bhargava, NK: Dr. Nitesh Kaushik, SM: Snehal Moghe Seeta Gupta Dr. Gajendra Singh Rajawat Mr. Pankaj Dhemla Dr. Mahesh M. Bundele

Vice Principal, PCE

Dr. Mahesh Bundele B.E., M.E., Ph.D. 26 Director Poornima College of Engineering 131-6, FUICO Institutional Area

Stapura, JAIPUR

Principal & Director, PCE

iii) II Year III Semester (Offline Mode)

POORNIMA COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

TIME TABLE (ODD SEMESTER 2021-22)

II Year (III Semester) w.e.f 15/11/2021 Tutor- Ms.Shazia Haque Room No. AG-01 Ш VΙ Day/ Ш 11:30 I۷ VII Period 8:30-9:30 9:30-10:30 10:30-11:30 to 12:10 12:10-1:10 1:10-2:10 2:10-3:10 3:10-4:00 3IT4-05 3IT4-06 3IT1-03 3IT3-04 3IT2-01 3IT4-07 Project guide OOP (SM) MEFA (KS) AEM (RS) MON DSA (SH) DE (SA) SE (NK) interaction/ AG-01 AG-01 AG-01 AG-01 AG-01 AG-01 Library/Activity 3IT4-07 3IT4-06 3IT2-01 3IT4-21 DSA LAB (A1) SH AG-25 C Project guide 3IT4-05 DSA (Tut TUE SE (NK) OOP (SM) AFM (RS) 31T4-24 DE LAB (A2) SA AS-07 interaction/ A2), SH, AG-02 Library/Activity 31T3-04 DE (Tut AG-01 AG-01 AG-01 31T4-22 OOP LAB (A3) SM AG-25 B A3), SA, AG-01 3IT4-05 DSA (Tut 3IT4-07 3IT2-01 **HONO** 3IT4-24 DE LAB (A1) SA AS-07 3IT4-05 A1), SH, AG-25 A Project guide interaction/ WED 31T3-04 DE (Tut. DSA (SH) SE (NK) AFM (RS) 31T4-23 SE LAB (A2)NK AG-25 A A2), SA, AG-01 Library/Activity AG-01 AG-01 AG-01 31T4-21 DSA LAB (A3) SH AG-25 C 31T3-04 DE (Tut. 3IT4-23 SE LAB (A1) NK AG-25 A 31T4-22 OOP LAB (A1) SM AG-25 B 3IT3-04 Project guide A1), SA, AG-01 THU 31T4-22 OOP LAB (A2) SM AG-25 B interaction/ 31T4-21 DSA LAB (A2) SH AG-25 C DE (SA) Library/Activity 31T4-05 DSA (Tut. A3),SH, 3IT4-24 DE LAB (A3) SA AS-07 31T4-23 SE LAB (A3) NK AG-25 A AG-01 3IT2-01 3IT1-03 3IT4-05 3IT3-04 3IT4-06 Project guide 3IT7-30 FRI AEM (RS) MEFA (KS) Industrial Training/NSP DSA (SH) DE (SA) OOP (SM) interaction/ (SB,SM) AG -03 Library/Activity AG-01 AG-01 AG-01 AG-01 AG-01 SAT i3 Day Activities i3 Day Activities

3IT1-03: Managerial Economics and Financial Accounting, 3IT4-05: Data Structures & Algorithms, 3IT3-04: Digital Electronics, 3IT4-06: Object Oriented Programming, 3IT4-07: Software Engineering, 3IT2-01: Adv. Engg. Mathematics, 3IT4-23: Software Engineering Lab,3IT4-21: Data Structure Lab, 3IT4-24: Digital Electronics Lab, 3IT4-22: Object Oriented Programming Lab

SH: Shazia Haque,RS: Dr. Randhir Singh Baghel, KS: Kalpana Sharma, SA: Saurabh Anand, SB: Sandeep Bhargava,NK:Dr. Nitesh Kaushik,SM:Snehal Moghe

		•	· -	-
Seeta Gupta	Dr. Gajendra Singh Rajawat		Mr. Pankaj Dhemla	Dr. Mahesh M. Bundele
TT Coordinator, IT	Head of Department, IT		Vice Principal, PCE	Principal & Director, PCE

Dr. Mahesh Bundele 27 B.E., M.E., Ph.D.

Curriculum Delivery Plan

Poornima College of Engineering ISI-6, FUICO Institutional Area Stlapura, JAIPUR

iv) III Year V Semester (Online Mode)

		DEP	ARTMENT OF II	VFORMA	TION TECHN	IOLOGY		
			TIME TABLE (C	DDD SEMES	TER 2021-22)			
			III Year (V Sem	ester) w.e	.f 20/09/202	1		
utor- Sand	leep Bhargava		,	·			F	Room No. AG- (
MON TUE WED THU FRI SAT	I II III 11:3		11:30	IV	V	VI	VII	
Day/ Period MON TUE WED THU	8:30-9:30	9:30-10:30	10:30-11:30	to 12:10	12:10-1:10	1:10-2:10	2:10-3:10	3:10-4:00
	5IT4-05	5IT4-03	5IT5-11 WC (SA) AG- 02		5IT4-02	5IT4-24 AD. JAVA Lab (A1) SB AG-25		
MON	AOA (SN)	OS (SB)	5IT5-12 STPM (PY) AG-03		CD (GS)	5IT4-23 AOA LAB (A2) SN AG-25 B		
	AG-03	AG-03			AG-03	5IT4-22 CD LAB (A3)GS AG-25 C		
TUE	5IT3-01	5IT5-11 WC (SA) AG- 02	5IT4-02		5IT4-04	5IT4-02		
	MP (SA)	5IT5-12 STPM (PY) AG-03	CD (GS)		CGMM (SG)	CD (GS)		
	AS-04		AG-03		AG-03	AG-03		
WED	5IT4-04	5IT3-01	5IT5-11 WC (SA) AG- 02		5IT4-03	5IT4-23 AOA LAB (A1) SN AG-25 A		
	CGMM (SG)	MP (SA)	5IT5-12 STPM (PY) AG-03	I	OS (SB)	5IT4-24 AD. JAVA Lab (A2) SB AG-25		
	AG-03	AS-04		N C	AG-03	5IT4-21 CG LAB (A3) SG AG-25 C		
	5IT3-01	5IT4-05	51T4-04	n	5IT4-05	5IT4-21 CG LAB (A1) SG AG-25 B		
THU	MP (SA)	AOA (SN)	CGMM (SG)	1	AOA (SN)	5IT4-22 CD LAB (A2)GS AG-25 C		
	AS-04	AG-03	AG-03		AG-03	51T4-23 AOA LAB (A3) SN AG-25 A		
	5IT3-01	5IT4-02	5IT4-05		5IT4-03	5IT4-22 CD LAB (A1)GS AG-25 C		
FRI	MP (SA)	CD (GS)	AOA (SN)		OS (SB)	5IT4-21 CG LAB (A2) SG AG-25 B		
	AS-04	AG-03	AG-03		AG-03	51T4-24 AD. JAVA Lab (A3) SB AG-25 A		
SAT		i3 Day Activities				Activities		

Algorithms, 51T5-11: Wireless Communication, 51T5-12: Software Testing and Project Management, 51T4-21: Computer Graphics & Multimedia Lab, 51T4-22: Compiler Design Lab, 51T4-23: Analysis of Algorithms Lab, 51T4-24: Advanced Java Lab

SN: Shirish Nagar, AS: Amol Saxena, SH: Shazia Haque, GS: Dr. Gajendra Singh Rajawat, SG: Seeta Gupta, SB: Sandeep Bhargava, SA:

Saurabh Anand, PY: Praveen Kr. Yadav

Seeta Gupta	Dr.Gajendra Singh Rajawat	Mr. Pankaj Dhemla	Dr. Mahesh M. Bundele
TT Coordinator, IT	Head of Department, IT	Vice Principal, PCE	Principal & Director, PCE

III Year V Semester (Hybrid Mode) v)

POORNIMA COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

TIME TABLE (ODD SEMESTER 2021-22) III Year (V Semester) (Online & Offline) w.e.f 04/10/2021 Room No. AG-03 Tutor- Sandeep Bhargava Ш Ш 11:30 ΙV v VI VII Day/ 8:30-9:30 9:30-10:30 10:30-11:30 to 12:10 12:10-1:10 1:10-2:10 3:10-4:00 2:10-3:10 Period 5IT5-11 WC (SA) 5IT4-04 5IT4-03 5IT4-05 5IT3-01 5IT4-02 AG-02 MON 5IT5-12 STPM AOA (SN) MP (SA) CGMM (SG) CD (GS) OS (SB) (PY) AG-03 AG-03 AS-04 AG-03 AG-03 AG-03 Online Classes 5IT5-11 WC (SA) AG 5IT3-01 5IT4-02 5IT4-04 5IT4-02 5IT4-05 TUE 5IT5-12 STPM (PY) MP (SA) CD (GS) CGMM (SG) CD (GS) AOA (SN) AG-03 AS-04 AG-03 AG-03 AG-03 AG-03 5IT7-30 5IT7-30 51T4-23 AOA LAB (A1) SN AG-25 A 5IT4-24 AD. JAVA Lab (A1) SB AG-25 Industrial Industrial WED Training/NSP Training/NSP 51T4-24 AD. JAVA Lab (A2) SB AG-25 B 51T4-23 AOA LAB (A2) SN AG-25 B (SB,PY) AG -03 (SB,PY) AG -03 51T4-21 CG LAB (A3) SG AG-25 C 51T4-22 CD LAB (A3)GS AG-25 C Offline Classes 5IT7-30 5IT7-30 5IT4-21 CG LAB (A1) SG AG-25 B 5IT4-22 CD LAB (A1)GS AG-25 C Industrial Industrial THU 51T4-22 CD LAB (A2)GS AG-25 C 5IT4-21 CG LAB (A2) SG AG-25 B Training/NSP Training/NSP (SB,PY) AG -03 5IT4-24 AD. JAVA Lab (A3) SB AG-25 (SB,PY) AG -03 51T4-23 AOA LAB (A3) SN AG-25 A 5IT5-11 WC (SA) 5IT3-01 5IT4-02 5IT4-05 5IT4-03 5IT4-04 AG-02 5IT5-12 STPM FRI Online Classes OS (SB) MP (SA) CD (GS) AOA (SN) CGMM (SG) (PY) AG-03 AS-04 AG-03 AG-03 AG-03 AG-03 SAT i3 Day Activities i3 Day Activities

5IT3-01: Microprocessor And Interfaces, 5IT4-02: Compiler Design, 5IT4-03: Operating Systems, 5IT4-04: Computer Graphics & Multimedia, 5IT4-05: Analysis of Algorithms, 5IT5-11: Wireless Communication, 5IT5-12: Software Testing and Project Management, 5IT4-21: Computer Graphics & Multimedia Lab, 5IT4-22: Compiler Design Lab, 51T4-23: Analysis of Algorithms Lab, 51T4-24: Advanced Java Lab

SN: Shirish Nagar, AS: Amol Saxena, SH: Shazia Haque, GS: Dr. Gajendra Singh Rajawat, SG: Seeta Gupta, SB: Sandeep Bhargava, SA: Saurabh Anand. PY: Praveen Kr. Yadav

Seeta Gupta	Dr.Gajendra Singh Rajawat	Mr. Pankaj Dhemla	Dr. Mahesh M. Bundele
TT Coordinator, IT	Head of Department, IT	Vice Principal, PCE	Principal & Director, PCE

Dr. Mahesh Bundele B.E., M.E., Ph.D. 29 Director Poornima College of Engineering 131-6, RIICO Institutional Area

Stapura, JAIPUR

Curriculum Delivery Plan

vi) III Year V Semester (Offline Mode)

POORNIMA COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

TIME TABLE (ODD SEMESTER 2021-22) III Year (V Semester) w.e.f 15/11/2021

utor- Sand	deep Bhargava							Room No. AG- 0	
Day/	I	II	III	11:30	IV	V	VI	VII	
Period	8:30-9:30	9:30-10:30	10:30-11:30	to 12:10	12:10-1:10	1:10-2:10	2:10-3:10	3:10-4:00	
	5IT5-11 WC (SA)				5IT4-02	5IT4-03	5IT4-05		
	AG-02	5IT4-24 AD. JAVA Lab	(A1) SB AG-25 A		311102	311.100	3.1.1.03	Project guide	
MON	5IT5-12 STPM (PY)				CD (GS)	OS (SB)	AOA (SN)	interaction/	
	AG-03	51T4-23 AOA LAB (A2) SN AG-25 B		\/	(/		Library/Activit	
		51T4-22 CD LAB (A3)0	S AG-25 C		AG-03	AG-03	AG-03		
	5IT3-01	5IT5-11 WC (SA) AG- 02	5IT4-02		5IT4-04	5IT4-02	5IT4-05	Project guide	
TUE	MP (SA)	5IT5-12 STPM (PY) AG-03	CD (GS)		CGMM (SG)	CD (GS)	AOA (SN)	interaction/ Library/Activity	
	AS-04		AG-03		AG-03	AG-03	AG-03	Library/Activit	
			5IT5-11 WC (SA) AG-	I	5IT4-03	5IT4-04	5IT3-01		
	51T4-23 AOA LAB (A1) SN AG-25 A		02	S	3114 03	3114 04	3110 01	Project guide	
WED		1 (40) 00 40 00 0	5IT5-12 STPM (PY)	Z	OS (SB)	CGMM (SG)	MP (SA)	interaction/	
WED	5114-24 AD. JAVA L	ab (A2) SB AG-25 B	AG-03	l .				Library/Activity	
	5IT4-21 CG LAB (A3) SG AG-25 C		-	AG-03	AG-03	AS-04		
	5IT3-01	5IT4-05	5IT4-04		5IT4-02	5IT4-05	5IT7-30	Project guide	
THU	MP (SA)	AOA (SN)	CGMM (SG)		CD (GS)	AOA (SN)	Industrial	interaction/	
	AS-04	AG-03	AG-03		AG-03	AG-03	Training/NSP (SB,PY) AG -03	Library/Activity	
	5IT3-01	5IT4-21 CG LAB (A1)	SC AC 25 B		5IT4-03	51T4-22 CD LAB (A:	1)00 40 35 0	Project guide	
FRI	MP (SA)	51T4-22 CD LAB (A2)			OS (SB)	51T4-21 CG LAB (A	•	interaction/	
	AS-04	51T4-23 AOA LAB (A2)			AG-03		ab (A3) SB AG-25 A	Library/Activity	
	7,501	3114 23 AOA BAB (AS	75N AG 25 A		7.0 00	3114 24 AD. 3AVA L	ab (A3) 30 Ad 23 A		
SAT		i3 Day Activities			i3 Day	Activities			

5IT3-01: Microprocessor And Interfaces, 5IT4-02: Compiler Design, 5IT4-03: Operating Systems, 5IT4-04: Computer Graphics & Multimedia, 5IT4-05: Analysis of Algorithms, 5IT5-11: Wireless Communication, 5IT5-12: Software Testing and Project Management, 5IT4-21: Computer Graphics & Multimedia Lab, 5IT4-22: Compiler Design Lab, 51T4-23: Analysis of Algorithms Lab, 51T4-24: Advanced Java Lab

SN: Shirish Nagar, AS: Amol Saxena, SH: Shazia Haque, GS: Dr. Gajendra Singh Rajawat, SG: Seeta Gupta, SB: Sandeep Bhargava, SA: Saurabh Anand. PY: Praveen Kr. Yadav

Seeta Gupta	Dr.Gajendra Singh Rajawat	Mr. Pankaj Dhemla	Dr. Mahesh M. Bundele
TT Coordinator, IT	Head of Department, IT	Vice Principal, PCE	Principal & Director, PCE

Dr. Mahesh Bundele B.E., M.E., Ph.D. Director

Curriculum Delivery Plan

Poornima College of Engineering ISI-6, FUICO Institutional Area Stlapura, JAIPUR

IV Year VII Semester (Online Mode) vii)

TT Coordinator, IT

Head of Department, IT

POORNIMA COLLEGE OF ENGINEERING DEPARTMENT OF INFORMATION TECHNOLOGY TIME TABLE (ODD SEMESTER 2021-222) IV Year (VII Semester) w.e.f 06/09/2021 Tutor- Ms. Seeta Gupta Room No. AG-02 11:30 VI II Ш IV VII Day/ to 12:10 3:10-4:00 Period 8:30-9:30 9:30-10:30 10:30-11:30 12:10-1:10 1:10-2:10 2:10-3:10 Project guide 7IT4-60 7IT7-40 7IT4-21 BDA LAB (A2) AS AG-25 A MON SEMINAR interaction/ OE (SH,SG) AG-03 7IT4-22 CyS LAB (A1) PY AG-25 B Library/Activity 7IT4-60 7IT4-01 7IT7-30 7IT4-21 BDA LAB (A1) AS AG-25 A Project guide TUE 71T4-22 CyS LAB (A2) PY AG-25 B OE BDA (AS) Ind.Training interaction/ Library/Activity AG-02 (NK,SG) AG-03 7IT4-01 7IT4-60 7IT4-01 7ITPR Project guide WED interaction/ OE BDA (AS) BDA (AS) (AS,SM,SB,SN) AG-25 A,B Library/Activity AG-02 AG-02 THU MOOC MOOC FRI SAT 7IT4-01 Big Data Analytics Lab 7IT7-30 7ITPR Big Data Analytics 7IT4-21 Industrial Training Project 7IT4-60 Open Elective 7IT4-22 Cyber Security Lab 7IT7-40 Seminar PY:Praveen Kr. Yadav, AS: Amol Saxena, SN: Shirish Nagar, SH: Shazia Haque, SG: Seeta Gupta, GS: Dr. Gajendra Singh Rajawat, SB: Sandeep Bhargava, SM: Snehal Moghe, NK: Dr. Nitesh Kaushik Seeta Gupta Dr. Gajendra Singh Rajawat Mr. Pankaj Dhemla Dr. Mahesh M. Bundele

Vice Principal, PCE

Dr. Mahesh Bundele B.E., M.E., Ph.D. 31 Director Poornima College of Engineering 131-6, FUICO Institutional Area

Stapura, JAIPUR

Principal & Director, PCE

viii) IV Year VII Semester (Hybrid Mode)

		Р	OORNIMA C	OLLEG	E OF ENGINE	ERING					
			DEPARTMENT (OF INFORI	MATION TECHNO	LOGY					
			TIME TAB	LE (ODD SEI	MESTER 2021-222)						
			IV Year (VII	Semester)	IT (Online & Offline)		v	v.e.f 04/10/2021			
Tutor- Ms. S	eeta Gupta							Room No. AG- 02			
Day/ Period	8:30-9:30	9:30-10:30	III 10:30-11:30	11:30 to 12:10	12:10-1:10	V 1:10-2:10	VI 2:10-3:10	3:10-4:00			
renou	7IT4-60	7IT4-01	10:30-11:30	10 12.10	12:10-1:10	1.10-2.10	2.10-3.10	3.10-4.00			
MON	OE	BDA (AS)									
		AG-02									
TUE	7IT4-60	7IT4-01		1							
IUE	OE	BDA (AS)									
		AG-02						Online Classes			
	7IT4-60	7IT4-01									
WED	OE	BDA (AS)		LUNCH							
		AG-02		ļ							
THU		моос				моос					
	7IT4-2	1 BDA LAB (A2) A	S AG-25 A		7IT4-21	BDA LAB (A1) AS AG-2	5 A				
FRI	7IT4-2	2 CyS LAB (A1) P	Y AG-25 B		7IT4-22	CyS LAB (A2) PY AG-2	25 B	Offline Classes			
SAT	71T7- Ind. Training (N		7IT7-40 SEMINAR (SH,SG) AG-03		7IT7-40 SEMINAR (SH,SG) AG-03	71Ti (AS,SM,SB,SN		(Labs)			
7IT4-01	Big Data Analytics	7IT4-21	Big Data Analytics Lab		7IT7-30	Industrial Training	7ITPR	Project			
7IT4-60			Cyber Security Lab		7IT7-40	Seminar					
				hazia Haque	e , SG: Seeta Gupta, G	S: Dr. Gajendra Sin	ngh Rajawat, SB :	Sandeep			
Bnargava, S	M:Snehal Moghe	,nk:Dr. Nitesi	n Kaushik								
See	eta Gupta	Dr. Gajeno	dra Singh Rajawat		Mr. Panka	j Dhemla	Dr. Mahes	h M. Bundele			
TT Cod	ordinator, IT	Head of	Department, IT		Vice Princ	ipal, PCE	Principal 8	Director, PCE			

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ix) IV Year VII Semester (Offline Mode)

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						LOGY				
			•		•					
Seeta Gunta		IV Year (VI	i Semester)	w.e.f 08/11	/2021			Room No. AG- 02		
ı	II	III	11:30	IV		v	VI	VII		
8:30-9:30	9:30-10:30	10:30-11:30	to 12:10	12:10-1:1	10	1:10-2:10	2:10-3:10	3:10-4:00		
7IT4-60		7IT7-40			7IT4-21	BDA LAB (A2) AS AG-2	25 A	Project guide		
OE				-	7IT4-22	CyS LAB (A1) PY AG-2	25 B	interaction/ Library/Activity		
71T4-60 71T4-01 71T7-30 71T4-21 BDA LAB (A1) AS AG-25 A										
OE	BDA (AS)	Ind.Training		7	7IT4-22	25 B	Project guide interaction/ Library/Activity			
	AG-02	(NK,SG) AG-03						Library/Activity		
7IT4-60	7IT4-01	7IT4-01	1		Project guide					
OE	BDA (AS)	BDA (AS)			(AS,	SM,SB,SN) AG-25 A,B		interaction/		
	AG-02	AG-02			Library/Activity					
	моос					моос				
Big Data Analytics	7IT4-21	Big Data Analytics Lab		7IT7-30		Industrial Training	7ITPR	Project		
Open Elective	7IT4-22	Cyber Security Lab		7IT7-40		Seminar				
			hazia Haque	, SG: Seeta Gu	upta, G	S : Dr. Gajendra Sin	igh Rajawat, SB :	Sandeep		
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	8:30-9:30 7174-60 OE 7174-60 OE 7174-60 OE Big Data Analytics Open Elective Kr.Yadav,AS: American	I	DEPARTMENT TIME TAB IV Year (VI Seeta Gupta I II III S:30-9:30 9:30-10:30 10:30-11:30 7:17-40 SEMINAR OE (SH,SG) AG-03 7:174-60 7:174-01 7:177-30 OE BDA (AS) Ind.Training AG-02 (NK,SG) AG-03 7:174-60 7:174-01 7:174-01 OE BDA (AS) BDA (AS) BDA (AS) AG-02 AG-03 AG-04 AG-05 AG	DEPARTMENT OF INFORM TIME TABLE (ODD SEM IV Year (VII Semester)	DEPARTMENT OF INFORMATION TEXT	DEPARTMENT OF INFORMATION TECHNO TIME TABLE (ODD SEMESTER 2021-222) W.e.f. 08/11/2021 U. U. U. U. U. U. U. U	IV Year (VII Semester) w.e.f. 08/11/2021	DEPARTMENT OF INFORMATION TECHNOLOGY TIME TABLE (ODD SEMESTER 2021-222) IV Year (VII Semester) w.e.f 08/11/2021 eeta Gupta		

11 Course Outcome Attainment Process:

11.1 Course Outcome Attainment Process

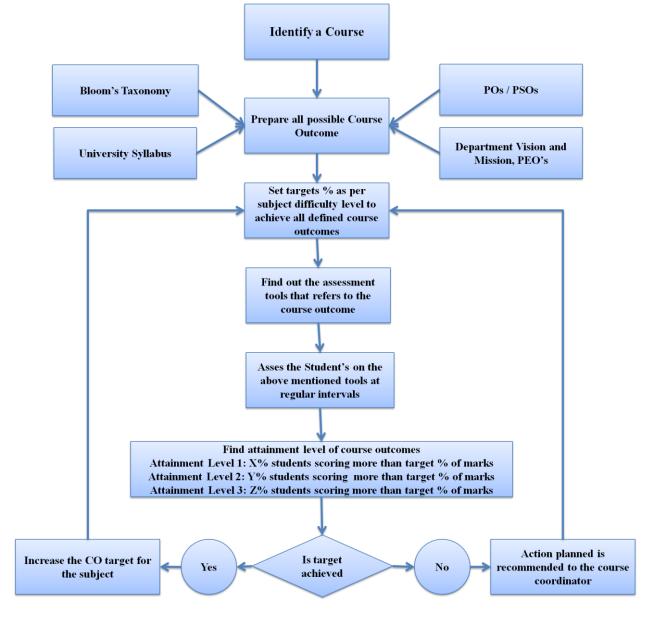


Figure. Course Outcome Attainment Process

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11.2 List of CO & CO mapping with PO

No. See	S.	Co	Course Name	CO	Course Outcomes	P	P	P	P	P	P	P	P	P	P	P	P	PS	PS	PS
O. Sc C.O C. Engineering C.O I Students will be able to apply basic concepts and properties of definite integrals, between and gamma function to solve practical problems in science and engineering field. C.O Students will be able to explain and identify convergence of sequence and series and lay down foundation for further investigations in signal processing. C.O Students will be able to apply be able to apply the						01	02	03	04	O5	06	O7 •	08	09	O1	01	01	0	0	0
The Fingineering CO1 Students will be able to apply basic concepts and properties of definite integrals, beta and gamma function to solve practical problems in science and engineering field. CO2 Students will be able to explain and identify convergence of sequence and series and lay down foundation for further investigations in signal processing. CO3 The students will be able to analyze the spectral characteristics of periodic functions by using Fourier series representation. CO4 Students will be able to evaluate partial derivatives and apply to estimate maxima and minima of multivariable function. CO5 Students will be able to apply multiple integrals for regions in the plane to evaluate surface area, volume, area of the region bounded by curves, mass, centre of gravity of CO5 Students will be able to apply multiple integrals for regions in the plane to evaluate surface area, volume, area of the region bounded by curves, mass, centre of gravity of CO5 CO5 Describe characteristics of water, fuel and Describe characteristics of water, fuel and Describe characteristics of water and calorific value of fuels for Industrial as well as domestic purposes CO5 Compare different techniques of water treatment, fuel analysis, Manufacturing of engineering materials and corrosion protection methods Describe characteristics of water treatment, fuel analysis, Manufacturing of engineering materials and corrosion protection methods Describe characteristics of water treatment, fuel analysis, Manufacturing of engineering materials and corrosion protection methods Describe characteristics on the protection methods Describe characteristics on the protection methods Describe characteristics on the protection methods Describe characteristics on the protection methods Describe characteristics on the protection methods Describe characteristics on the protection methods Describe characteristics on the protection methods Describe characteristics on the protection methods Describ	0.	se				the	Pr	De	Co	M	Th	En	Et	In	Co	Pr	Lif	De	Ex	Ap
Nathematics and properties of definite integrals, beta and gamma function to solve practical problems in science and engineering field.								sig	nd	od	e	vir	hic	div	m	oje 	e-	sig	hib	ply
CO2 Students will be able to explain and identify convergence of sequence and series and lay down foundation for further investigations in signal processing. CO3 The students will be able to analyze the spectral characteristics of periodic functions by using Fourier series representation. CO4 Students will be able to evaluate partial derivatives and apply to estimate maxima and minima of multivariable function. CO5 Students will be able to evaluate partial derivatives and apply to estimate maxima and minima of multivariable function. CO5 Students will be able to evaluate surface area, volume, area of the region bounded by curves, mass, centre of gravity of	1			CO1		3	2	1	-	-	-	-	-	-	-	-	-	-	-	-
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surface area, volume, area of the region bounded by curves, mass, centre of gravity of 2. 2. 1				CO5	Students will be able to apply multiple	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-
bounded by curves, mass, centre of gravity of 2. 2. 1					integrals for regions in the plane to evaluate															
2. 2. 1					surface area, volume, area of the region															
2 1F Engineering Chemistry - 03 CO2 Determine of hardness of water and calorific value of fuels for Industrial as well as domestic purposes CO3 Compare different techniques of water treatment, fuel analysis, Manufacturing of engineering materials and corrosion protection methods					bounded by curves, mass, centre of gravity of															
2 1F Engineering Chemistry Chemistry CO2 Determine of hardness of water and calorific value of fuels for Industrial as well as domestic purposes CO3 Compare different techniques of water treatment, fuel analysis, Manufacturing of engineering materials and corrosion protection methods									-	-	-	-	-	-	-	-	-	-	-	-
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CO2 Determine of hardness of water and calorific value of fuels for Industrial as well as domestic purposes CO3 Compare different techniques of water treatment, fuel analysis, Manufacturing of engineering materials and corrosion protection methods		117	Engineening	CO1	Describe characteristics of water feel and	1														
CO2 Determine of hardness of water and calorific value of fuels for Industrial as well as domestic purposes CO3 Compare different techniques of water treatment, fuel analysis, Manufacturing of engineering materials and corrosion protection methods	2			COI		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2 Determine of hardness of water and calorific value of fuels for Industrial as well as domestic purposes CO3 Compare different techniques of water treatment, fuel analysis, Manufacturing of engineering materials and corrosion protection methods		1 2	Chemistry		Engineering materials															
CO2 Determine of hardness of water and calorific value of fuels for Industrial as well as domestic purposes CO3 Compare different techniques of water treatment, fuel analysis, Manufacturing of engineering materials and corrosion protection methods		03																		
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CO3 Compare different techniques of water treatment, fuel analysis, Manufacturing of engineering materials and corrosion protection methods				002		-														
CO3 Compare different techniques of water treatment, fuel analysis, Manufacturing of engineering materials and corrosion protection methods																				
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treatment, fuel analysis, Manufacturing of engineering materials and corrosion protection methods				CO3	Compare different techniques of water	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
engineering materials and corrosion protection methods																				
protection methods					engineering materials and corrosion												1		1	
					protection methods											-0	1	<u>C</u>		

			CO4	Prepare the generic drugs or medicines by understanding the applications of organic reaction mechanism and manufacturing of engineering materials	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
					2. 0 0	2. 0 0	-	-	-	-	-	-	-	-	-	-	-	-	-
3	1F Y1 - 04	Communicati on Skills	CO1	Describe the process of communication, basics of Grammar and Writing and Literary Aspects	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
			CO2	Explain the types of communication, barriers and channels of communication and the concept of Literature through Short Stories and poetry	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-
			CO3	Write and prepare professional reports, paragraph and business letters with the correct use of grammar	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
			CO4	Discuss and illustrate the impact of social and moral values by implying the basics of English Writing Skills through literary aspects	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
			CO5	Restate and outline the basic areas of English Language Skills with the applications of literature	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
					-	-	-	-	-	-	-	2. 0 0	-	2. 0 0	-	2. 0 0	-	-	-
4	1F Y3 - 07	Basic Mechanical Engineering	CO1	Describe concepts of thermal, functional design of machine elements, materials and primary manufacturing process.	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
			CO2	Classify different types of turbines and power plants, pumps and IC engines, refrigeration system, transmission of power, engineering materials and primary manufacturing	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-

			CO3	Apply the fundamental knowledge of thermal engineering, in addition to understanding of materials and primary manufacturing process to solve the industrial and societal issues.	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO4	Examine about the turbine & pumps, IC engines, refrigeration system, modes of transmission of power, materials and primary manufacturing process	-	1	-	-	-	-	-	-	-	-	-	-	-	2	1
					2. 0 0	1. 0 0	-	-	-	-	-	-	-	-	-	-	1. 6 7	2. 0 0	1. 0 0
5	1F Y3 - 08	Basic Electrical Engineering	CO1	Define various ac and dc circuit related problems	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO2	Explain electromechanical energy conversion process	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-
			CO3	Classify characteristics of various power electronic devices.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO4	Identify knowledge of protective devices and energy consumption calculations.	-	2	-	-	-	-	-	-	-	-	-	-	2	-	-
					2. 0 0	2. 0 0	-	-	-	-	-	-	-	-	-	-	1. 5 0	-	-
6	1F Y2 - 21	Engineering Chemistry Lab	CO1	Determine the strength of unknown solution by volumetric analysis.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO2	Examine the characteristics of lubricating oil in groups	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-

			CO3	Analyze different characteristics of water and fuel to solve societal and enviornmental problems	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
			CO4	Students will show an ability to work as a team member ethically	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-
					1. 0 0	-	-	-	-	-	2. 0 0	2. 0 0	2. 5 0	-	-	-	-	-	-
7	1F Y1 - 22	Language Lab	CO1	Use and pronounce the words correctly.	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
			CO2	Acquire knowledge of the correct expressions,vocabulary etc. in personal and professional lives.	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
			CO3	Plan successfully for leadership and teamwork, crack GD's, interviews and other professional activities.	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
			CO4	Synthesize the process of communication using LSRW.	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
					-	-	-	-	-	-	-	-	2. 0 0	2. 0 0	-	-	-	-	-
8	1F Y3 - 26	Basic Electrical Engineering Lab	CO1	Discuss measurement of electrical quantites	1	-	-	-	-	-	-	-	-	-	-	-	1	2	-
			CO2	Compare different connections of transformer	2	-	-	-	-	-	-	-	-	-	-	-	1	2	-
															/~				

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			CO3	Demonstrate constructional features of electrical machines and converters	3	-	-	-	-	-	-	-	-	-	-	-	2	2	-
			CO4	Students will show an ability to communicate effectively and work as a team member ethically	-	-	-	-	-	-	-	2	3	2	-	-	-	-	-
					2	-	-	-	-	-	-	2	3	2	-	-	1. 3 3	2	-
9	1F Y3 - 25	Manufacturin g Practices Workshop	CO1	Describe the working of Lathe machine.	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
			CO2	Apply the basic concepts of Foundry Shop	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-
			CO3	Develop various carpentry joints, welding joints and sheet metal objects.	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-
			CO4	Students will show an ability to work as a team member ethically	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-
					1. 5 0	2. 0 0	-	-	-	-	-	2. 0 0	3. 0 0	-	-	-	1. 0 0	-	-
10	1F Y3 - 28	Computer Aided Engineering Graphics	CO1	Describe engineering drawing terminology, concept of scales and conic sections.	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
		Stupmes	CO2	Draw Projection of Points, lines, planes, solids and section of solids	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-

			CO3	Draft 2D engineering problems on CAD software.	-	-	-	-	3	-	-	-	-	-	-	-	-	1	1
			CO4	Students will show an ability to work as a team member ethically	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-
					1. 0 0	1. 0 0	-	-	3. 0 0	-	-	2. 0 0	3. 0 0	-	-	-	1. 5 0	1. 0 0	1. 0 0
21	3I T1 - 03	Managerial Economics and Financial Accounting	CO1	Describe the fundamental concepts of Economics and Financial Management and define the meaning of national income, demand, supply, cost, market structure, and	-	-	-	-	-	1	-	-	-	2	3	-	-	-	-
			CO2	Calculate the domestic product, national product and elasticity of price on demand and supply.	-	2	-	-	-	-	-	-	-	-	3	-	-	-	1
			CO3	Draw the cost graphs, revenue graphs and forecast the impact of change in price in various perfect as well as imperfect market structures.	3	-	2	-	-	-	-	-	-	-	-	-	-	-	1
			CO4	Compare the financial statements to interpret the financial position of the firm and evaluate the project investment decisions.	-	3	-	2	-	-	-	-	-	-	3	-	-	-	1
					3. 0 0	2. 5 0	2. 0 0	2. 0 0	-	1. 0 0	-	-	-	2. 0 0	3. 0 0	-	-	-	1. 0 0
22	3I T4 - 05	Data Structures and Algorithms	CO1	Define and compare various Linear and Non- Linear Data Structures along with their applications.	-	-	3	2	-	-	-	-	-	-	2	2	2	1	-
			CO2	Explain the memory representation of arrays, linked lists, stacks, queues, trees, and graphs; and apply various operations on these data structures.	-	-	-	3	-	-	-	-	-	-	2	2	3	1	1

			CO3	Choose appropriate data structure for the specified problem definition and compare the benefits of dynamic and static implementation of data structures.	-	-	3	2	-	-	-	-	-	-	2	3	3	-	1
			CO4	Select appropriate sorting and searching technique for an application and explain the concept of Hashing.	-	-	3	2	-	-	-	-	-	-	-	2	3	-	1
					-	-	3. 0 0	2. 2 5	-	-	-	-	-	-	2. 0 0	2. 2 5	2. 7 5	1. 0 0	1. 0 0
23	3I T3 - 04	Digital Electronics	CO1	Describe number representation and conversion between different number representation.	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
			CO2	Apply different simplification methods for digital logic .	3	3	-	-	-	-	-	-	-	-	-	2	-	-	2
			CO3	Compare various logic family.	3	3	-	-	-	-	-	-	-	-	-	2	2	-	-
			CO4	Design sequential and combinational logic circuit for given problem.	3	3	-	-	-	-	-	-	-	-	-	2	-	2	-
					3. 0 0	3. 0 0	-	-	-	-	-	-	-	-	-	2. 0 0	2. 0 0	2. 0 0	2. 0 0
24	3I T4 - 06	Object Oriented Programming	CO1	Explain basic object oriented programming concepts and principles through C++ language.	3	3	-	-	-	-	-	-	-	-	-	2	-	-	-
			CO2	Apply the concepts of classes and objects while designing applications.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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			CO3	Identify the need to use memory handling and pointer concepts in various applications.	3	-	-	-	-	-	-	-	-	-	-	-	3	-	-
			CO4	Assess the types of Inheritance according to the need of application designing.	-	3	-	-	-	-	-	-	-	-	-	2	-	3	-
			CO5	Construct the applications using generic programming, exception handling and file handling.	-	3	-	-	-	-	-	-	-	-	-	-	-	-	3
					3. 0 0	3. 0 0	-	-	-	-	-	-	-	-	-	2. 0 0	3. 0 0	3. 0 0	3. 0 0
25	3I T4 - 07	Software Engineering	CO1	Plan software development life cycle, including the specification, design, implementation, and testing of software systems that meet specification, performance,	-	3	2	-	-	-	-	-	-	-	-	2	-	3	2
			CO2	Able to use engineering tools necessary for software project management, evaluate cost estimation and risk analysis.	-	3	2	-	-	-	-	-	-	-	-	-	3	2	-
			CO3	Identify and outlines the engineering process of software requirement analysis.	3	3	3	-	-	-	-	1	-	-	-	2	3	3	3
			CO4	Analyze and translate a specification into design, and then realize that design practically, using an appropriate software engineering methodology.	2	3	3	2	-	-	-	2	-	-	2	3	3	3	3
			CO5	Explain the object- oriented software development process.	3	3	3	3	3	-	-	2	-	-	2	2	3	2	2
					2. 6 7	3. 0 0	2. 6 0	2. 5 0	3. 0 0	-	-	1. 6 7	-	-	2. 0 0	2. 2 5	3. 0 0	2. 6 0	2. 5 0

26	3I T2 - 01	Advanced Engineering Mathematics	CO1	Describe probability models using probability mass (density) functions ,need and classification of optimization terminology.	2	2	3	3	3	-	-	2	-	-	3	3	2	2	3
			CO2	Determine the probability distributions of discrete and continuous random variables and work binomial, Poisson, uniform, exponential, normal distribution and their statistical	2	3	3	2	-	-	-	-	-	-	2	3	2	2	3
			CO3	Interpret the correlation between two variables and regression applications for purposes of description and prediction.	3	2	2	-	-	-	-	-	-	-	-	1	2	-	1
			CO4	Create mathematical models of the real world problems in optimization. For example: Finance, Budgeting, Investment, Transportation, Traveling salesman and many	3	3	2	2	-	-	-	-	-	-	-	1	2	-	-
			CO5	Solve Assignments and transportation problems using linear programming methods.	3	2	2	2	-	-	-	-	-	-	-	1	2	-	-
					2. 6 0	2. 4 0	2. 4 0	2. 2 5	3. 0 0	-	-	2. 0 0	-	-	2. 5 0	1. 8 0	2. 0 0	2. 0 0	2. 3 3
27	3I T4 - 23	Software Engineering Lab	CO1	Develop a systematic, disciplined and quantifiable approach to the development, operation and maintenance of software.	3	3	3	3	-	-	-	-	-	-	-	1	2	-	1
			CO2	Develop Software Requirements Specification (SRS) for a given problem.	3	2	2	2	-	-	-	-	-	-	-	1	3	-	2
			CO3	Use appropriate CASE tools in the software life cycle.	-	2	2	-	-	-	-	-	2	-	2	2	3	2	2
			CO4	Develop DFD model using structured design.	-	3	3	-	-	-	-	-	2	-	2	3	3	2	-

			CO5	Develop projects using object-oriented design and UML.	-	2	2	-	-	-	-	-	2	-	3	2	3	3	2
					3. 0 0	2. 4 0	2. 4 0	2. 5 0	-	-	-	-	2. 0 0	-	2. 3 3	1. 8 0	2. 8 0	2. 3 3	1. 7 5
28	3I T4 - 21	Data Structures and Algorithms	CO1	Compare and implement elementary data structures such as stacks, queues, linked lists, trees and graphs.	-	3	3	-	2	-	-	-	2	-	3	3	-	-	2
		Lab	CO2	Identify the appropriate data structure for a given problem.	-	3	2	-	2	-	-	-	2	-	2	2	2	2	3
			CO3	Select and implement appropriate sorting/searching technique for given problem.	-	-	2	1	-	-	-	-	-	-	1	1	3	2	1
			CO4	Implement various operations like creation, insertion, deletion and traversal on Linear and Non-Linear data structures.	-	2	3	-	-	-	-	-	-	-	-	1	2	2	1
					-	2. 6 7	2. 5 0	1. 0 0	2. 0 0	-	-	-	2. 0 0	-	2. 0 0	1. 7 5	2. 3 3	2. 0 0	1. 7 5
29	3I T4 - 24	Digital Electronics Lab	CO1	Understand Digital Circuits & Systems	-	-	3	-	-	-	-	-	-	-	-	1	-	2	-
			CO2	Verify truth tables of basic logic gates.	-	2	2	-	-	-	-	-	-	-	-	2	-	-	2
			CO3	Realize and verify different types of logic gates.	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-

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			CO4	Realize different types of Combinational and Sequential circuits	-	-	3	2	2	-	-	-	-	-	3	3	-	2	-
					-	2. 0 0	2. 6 7	2. 0 0	2. 0 0	-	-	-	-	-	3. 0 0	2. 0 0	2. 0 0	2. 0 0	2. 0 0
30	3I T4 - 22	Object Oriented Programming Lab	CO1	Demonstrate the knowledge of C++ programming language (its syntax, characteristic), objects and class concepts, and different Types of conversion techniques in	-	-	3	2	2	-	-	-	-	-	3	3	3	-	-
			CO2	Apply different memory allocation techniques and functions in C++	-	-	3	3	2	-	-	-	-	-	3	3	-	3	-
			CO3	Implement Inheritance concept in C++ programming model	-	-	3	2	-	-	-	-	-	-	3	3	-	-	3
			CO4	Formulate abstract classes with help of polymorphism in C++	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2
					-	-	3. 0 0	2. 3 3	2. 0 0	-	-	-	-	-	3. 0 0	3. 0 0	3. 0 0	3. 0 0	2. 5 0
31	3I T7 - 30	Industrial Training	CO1	Identify the importance of emerging technologies and advancements	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO2	Explain the theoretical aspects directly viewing development and other activity in industry and can decide his/her career.	-	3	-	-	-	-	-	-	-	-	-	-	-	-	2
			CO3	Develop the practical skill, team work and ethical thinking while working in industry.	-	-	-	-	-	-	-	3	3	-	-	-	-	2	-

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			CO4	Communicate effectively through technical presentation, report and interactions.	-	-	-	-	-	2	-	-	-	3	-	-	2	-	-
			CO5	Present and demonstrate the report using modern tools.	-	-	-	-	3	-	-	-	-	-	-	-	2	-	-
					3. 0 0	3. 0 0	-	-	3. 0 0	2. 0 0	-	3. 0 0	3. 0 0	3. 0 0	-	-	2. 0 0	2. 0 0	2. 0 0
43	5I T3 - 01	Microprocesso r And Interfaces	CO1	Describe the architecture and organization of Microprocessor along with Instruction Set format.	-	3	-	-	-	-	-	-	-	-	-	-	-	2	-
			CO2	illustrate the operation of various instructions and addressing modes.	-	3	-	-	-	-	-	-	-	-	-	-	-	-	2
			CO3	Compare the various interrupts and Delay Techniques.	-	-	3	-	-	-	-	-	-	-	-	-	2	-	-
			CO4	Develop assembly language program using various programming tools for given problem.	-	-	3	-	-	-	-	-	-	-	-	-	-	2	-
			CO5	Design Interfacing of Microprocessor with External Device.	-	-	-	3	-	-	-	-	-	-	-	-	-	-	2
					-	3. 0 0	3. 0 0	3. 0 0	-	-	-	-	-	-	-	-	2. 0 0	2. 0 0	2. 0 0
44	5I T4 -	Compiler Design	CO1	Describe the phases of the compilation process and other implicit phase specific procedures	-	3	-	-	-	-	-	-	-	-	-	2	2	2	-

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	02		CO2	Compare different parsing methods, error handling methods, and parameter parsing approaches	-	-	3	-	-	-	-	-	-	-	-	2	3	2	2
			CO3	Examine basic block and its control flow, TAC, DAG representation, optimizations sources, methods of code generation	-	-	3	-	-	-	-	-	-	-	-	-	2	2	-
			CO4	Analyze syntax directed definition, storage allocation, parameter passing and data structures using symbol tables	-	-	3	-	-	-	-	-	-	-	-	2	3	2	-
			CO5	Create compiler programs using YACC and Lex thereby constructing Lexical Analyzers and Parsers.	-	-	3	-	-	-	-	-	-	-	-	-	3	2	-
					-	3. 0 0	3. 0 0	-	-	-	-	-	-	-	-	2. 0 0	2. 6 0	2. 0 0	2. 0 0
45	5I T4 - 03	Operating System	CO1	Describe the characteristics of different structures of the operating systems and identify the core functions of the operating systems.	3	-	-	-	-	-	-	-	-	-	-	-	2	-	2
			CO2	Interpret features and strengths of various contemporary operating systems (UNIX, Linux and Mobile OSs).	2	3	-	-	-	-	-	-	-	-	-	2	-	3	-
			CO3	Apply methods to solve basic problems related to core functioning of OS such as synchronization, scheduling, deadlocks, memory management, file management etc.	-	-	3	-	-	-	-	-	-	-	-	2	3	-	-
			CO4	Analyze and evaluate various policies and algorithms used for the management of processes, resource control, physical and virtual memory, scheduling, I/O and files.	-	-	3	-	-	-	-	-	-	-	-	2	-	-	3
					2. 5 0	3. 0 0	3. 0 0	-	-	-	-	-	-	-	-	2. 0 0	2. 5 0	3. 0 0	2. 5 0

46	5I T4 - 04	Computer Graphics & Multimedia	CO1	Understand the concept of different display techniques, 2D & 3D,Co-ordinate system and primitive drawing components like line, circle etc.	-	3	3	-	-	-	-	-	-	-	-	2	3	-	2
			CO2	Use geometric transformations on graphics objects and their application in composite form.	-	2	2	-	-	-	-	-	-	-	-	2	3	2	3
			CO3	Apply visible surface detection methods in 3D objects.	-	3	3	-	-	-	-	-	-	-	-	2	3	2	3
			CO4	Compare Illumination color models and clipping techniques to graphics application.	-	3	3	-	-	-	-	-	-	-	-	2	3	-	-
			CO5	Implement the concept and applications of multimedia in computer animation.	-	3	3	-	-	-	-	-	-	-	-	2	-	-	3
					-	2. 8 0	2. 8 0	-	-	-	-	-	-	-	-	2. 0 0	3. 0 0	2. 0 0	2. 7 5
47	5I T4 - 05	Analysis of Algorithms	CO1	Explain design techniques of algorithm and concepts of complexity and Notations	-	3	3	2	-	-	-	-	-	-	-	-	3	-	2
	0.5		CO2	Analyze and evaluate time complexity of different computational problems in worst, best and average case	2	3	3	3	-	-	-	-	-	-	-	-	3	-	2
			CO3	Choose appropriate algorithm design techniques and formulate the solution of different computational problems.	2	3	3	3	-	-	-	-	-	-	-	-	3	-	2
			CO4	Design algorithmic solution to solve the computational problems using divide & conquer, Greedy, Dynamic Programming, Pattern Matching, Branch & Bound &	2	3	3	3	-	-	-	-	-	-	-	-	3	-	2

					2. 0 0	3. 0 0	3. 0 0	2. 7 5	-	-	-	-	-	-	-	-	3. 0 0	-	2. 0 0
48	5I T5 - 12	Software Testing and Project Management	CO1	Define and explain software project management concepts like project planning, organizing project teams, and roles of a Project Manager.	-	2	3	2	-	-	-	-	-	-	2	2	2	1	-
		-	CO2	Estimate effort and duration and calculate software size.	-	-	3	-	-	-	-	-	-	-	2	2	3	1	1
			CO3	Define and compare Black Box and White Box Testing.	-	-	3	2	-	-	-	-	-	-	2	3	3	-	1
			CO4	Explain various types of testing techniques and design test cases.	-	-	3	2	-	-	-	-	-	-	-	2	3	-	1
					-	2. 0 0	3. 0 0	2. 0 0	-	-	-	-	-	-	2. 0 0	2. 2 5	2. 7 5	1. 0 0	1. 0 0
49	5I T4 - 21	Computer Graphics & Multimedia Lab	CO1	Write programs to draw two dimensional images using OpenGL.	-	2	2	3	-	-	-	-	-	-	-	2	2	2	2
			CO2	Implement algorithms for line, ellipse and circle drawing using OpenGL.	-	3	3	2	3	-	-	-	-	-	-	2	3	-	2
			CO3	Demonstrate algorithms of clipping of Images.	-	2	2	2	3	-	-	-	-	-	-	2	3	2	3
			CO4	Implement basic transformations on objects using OpenGL.	-	3	2	2	3	-	-	-	-	-	-	2	3	2	3

			CO5	Apply the concept of Color Generation on objects.	-	2	3	3	3	-	-	-	-	-	-	2	3	2	2
					-	2. 4 0	2. 4 0	2. 4 0	3. 0 0	-	-	-	-	-	-	2. 0 0	2. 8 0	2. 0 0	2. 4 0
50	5I T4 - 22	Compiler Design Lab	CO1	Analyze various system programming concepts, by designing a lexical analyzer for pattern recognition in C Language	-	-	3	2	3	-	-	-	-	-	-	2	3	2	2
			CO2	Design programs to implement different parsing approaches thereby implementing parse tables.	-	-	3	2	-	-	-	-	-	-	-	2	3	2	-
			CO3	Construct a program for generating for various intermediate code forms, especially TAC, and Polish code.	-	-	3	2	-	-	-	-	-	-	-	2	2	2	2
			CO4	Create various storage allocation strategies, parameter passing and data structures using symbol tables	-	-	3	-	-	-	-	-	-	-	-	2	3	2	-
			CO5	Create a Lexical Analyzer using LEX, and language processor development using YACC.	-	3	2	2	3	-	-	-	-	-	-	2	3	2	2
					-	3. 0 0	2. 8 0	2. 0 0	3. 0 0	-	-	-	-	-	-	2. 0 0	2. 8 0	2. 0 0	2. 0 0
51	5I T4 - 23	Analysis of Algorithms Lab	CO1	Analyze the time complexity of algorithm & synthesize efficient algorithms.	-	3	3	3	3	-	-	-	-	-	-	-	3	-	-
	23		CO2	Implement programs for classical sorting, searching problems using various design techniques of algorithm	-	3	3	3	2	-	-	-	-	-	-	3	3	-	2

			CO3	Implement programs for optimization and graph problems using various design techniques of algorithm	-	3	3	3	2	-	-	-	-	-	-	3	3	-	3
			CO4	Synthesize efficient algorithms for sorting, optimization, graph based problems	-	3	3	3	3	-	-	-	-	-	-	3	3	-	-
					-	3. 0 0	3. 0 0	3. 0 0	2. 5 0	-	-	-	-	-	-	3. 0 0	3. 0 0	-	2. 5 0
52	5I T4 - 24	Advanced Java Lab	CO1	Create a Swings application with GUI components and design Java Applet programs	-	3	-	-	2	-	-	-	-	-	-	2	2	-	-
			CO2	Connect a web application to a database using JDBC drivers, and construct Client Server programs	-	3	-	-	2	-	-	-	-	-	-	2	2	-	-
			CO3	Apply Java RMI to write distributed applications, and incorporate JNDI lookup and Object serializations.	-	-	3	-	3	-	-	2	-	-	-	-	3	2	2
			CO4	Analyze J2EE Architecture and develop programs to implement Java Servlets and Session Handling	-	-	3	2	3	-	-	2	-	-	-	2	2	3	3
			CO5	Design an application using JSP pages with XML tab library and integration of SQL functions.	-	-	3	2	3	-	-	2	-	-	-	2	3	3	3
					-	3. 0 0	3. 0 0	2. 0 0	2. 6 0	-	-	2. 0 0	-	-	-	2. 0 0	2. 4 0	2. 6 7	2. 6 7
53	5I T7 -	Industrial Training	CO1	Identify the importance of emerging technologies and advancements	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-

	30		CO2	Explain the theoretical aspects directly viewing development and other activity in industry and can decide his/her career.	-	3	-	-	-	-	-	-	-	-	-	-	-	-	2
			CO3	Develop the practical skill, team work and ethical thinking while working in industry.	-	-	-	-	-	-	-	3	3	-	-	-	-	2	-
			CO4	Communicate effectively through technical presentation, report and interactions.	-	-	-	-	-	2	-	-	-	3	-	-	2	-	-
			CO5	Present and demonstrate the report using modern tools.	-	-	-	-	3	-	-	-	-	-	-	-	2	-	-
					3.	3.	-	-	3.	2.	-	3.	3.	3.	-	-	2.	2.	2.
					0	0			0	0		0	0	0			0	0	0
					0	0			0	0		0	0	0			0	0	0
65	7I T4 - 01	Big Data Analytics	CO1	Understand the key issues in big data management and its associated applications in intelligent business and scientific computing.	3	-	-	-	-	-	-	-	-	-	-	-	3	-	-
			CO2	Differentiate various big data technologies like Hadoop, MapReduce, Pig, Hive, Hbase and No-SQL	-	3	-	-	-	-	-	-	-	-	-	-	-	3	-
			CO3	Apply tools and techniques to analyze Big Data	-	3	-	-	3	-	-	-	-	-	-	-	-	-	3
			CO4	Design a solution for a given problem using suitable Big Data Techniques	-	-	3	-	3	-	-	-	-	-	-	-	-	-	3
					3. 0 0	3. 0 0	3. 0 0	-	3. 0 0	-	-	-	-	-	-	-	3. 0 0	3. 0 0	3. 0 0

66	7E E6	Electrical Machines and Drives (OPEN	CO1	Understand the constructional details and principle of operation of rotating electrical machines	3	-	-	3	3	-	-	-	-	-	3	-	-	-	-
	60.	ELECTIVE)	CO2	Acquire knowledge about the working principle and various aspects of electric drives.	3	-	-	2	3	-	-	-	-	-	2	-	-	-	-
			CO3	Study and analyze the various control techniques for speed control on various electric drives .	2	-	-	3	3	-	-	-	-	-	3	-	-	-	-
			CO4	Develop design knowledge on how to design the speed control and current control loops of an electric drive	3	-	-	3	2	-	-	-	-	-	3	-	-	-	-
					2. 7 5	-	-	2. 7 5	2. 7 5	-	-	-	-	-	2. 7 5	-	-	-	-
67	7 M E6	Quality Management (OPEN ELECTIVE)	CO1	Describe the basic concept of Quality Management.	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-
	60.		CO2	Explain a system, component, and process to meet desired needs within limits using modeling process quality and learn the concept of control charts.	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO3	Illustrate the concept of Quality Assurance, Acceptance sampling and study quality systems like ISO9000, ISO 14000 and Six Sigma.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO4	Identify engineering problems, concept of reliability and Taguchi Method of Design of experiments.	-	2	-	-	-	-	-	-	-	-	-	-	2	-	-
					2. 0 0	2. 0 0	-	-	-	-	-	-	-	-	-	-	2. 0 0		-

68	7E C6 - 60.	Principle of Electronic communicatio n (OPEN	CO1	Describe the principles of various digital modulation systems and their properties, including bandwidth, channel capacity, transmission over bandlimited	3	2	-	2	-	-	-	-	-	-	-	3	-	-	-
	1	ELECTIVE)	CO2	Apply the concepts to practical applications in telecommunication	2	3	-	2	-	-	-	-	-	2	-	3	1	1	-
			CO3	Analyse communication systems in both the time and frequency domains.	2	3	2	-	2	-	2	-	-	-	-	3	-	2	-
			CO4	Design a communication system comprised of both analog and digital modulation techniques.	-	3	2	-	-	-	-	-	-	2	-	3	-	-	-
					2.	2.	2.	2.	2.	-	2.	-	-	2.	-	3.	1.	1.	-
					3	7	0	0	0		0			0		0	0	5	
					3	5	0	0	0		0			0		0	0	0	
69	7E C6 - 60.	Micro and Smart System Technology (OPEN	CO1	Explain the smart grids components and architecture	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	ELECTIVE)	CO2	Apply different measuring methods and sensors used in smart grid	3	3	2	-	-	-	-	-	-	-	-	-	1	-	-
			CO3	Analyze various renewable energy technologies	3	3	-	2	-	-	-	-	-	-	-	-	-	-	-
			CO4	Design various smart grid technology based devices.	-	-	3	3	3	-	-	-	-	-	-	-	1	-	1
					3. 0 0	3. 0 0	2. 5 0	2. 5 0	3. 0 0	-	-	-	-	-	-	-	1. 0 0		1. 0 0

70	7C E6 - 60.	Environmental Impact Analysis (OPEN	CO1	Define terms used in Environmental impact assessment, quality standards for environmental Components	2	1	-	-	-	-	1	-	-	-	-	1	-	1	-
	1	ELECTIVE)	CO2	Understand the concepts about EIA i.e; ecological imbalance, effects of pollution, importance of stakeholders in the EIA process	2	1	-	-	-	-	1	-	-		-	1	-	1	-
			CO3	Organize an environmental impact assessment for a proposed project/activity	1	2	1	-	1	1	2	-	-	-	-	2	1	1	1
			CO4	Analyze different methodologies and impacts related to EIA	1	3	1	-	1	1	2	-	-	-	-	2	1	1	1
					1. 5 0	1. 7 5	1. 0 0	-	1. 0 0	1. 0 0	1. 5 0	-	-	-	-	1. 5 0	1. 0 0	1. 0 0	1. 0 0
71	7C E6 - 60.	Disaster Management (OPEN ELECTIVE)	CO1	Understand concept of disasters, risks, hazards, capacity building, coping with disaster and disaster management act and policy in India	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	·	CO2	Explain concept of disasters, risks, hazards, capacity building, coping with disaster and disaster management act and policy in India	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO3	Classify disasters, risks, hazards, management techniques	1	2	1	-	-	-	-	-	-	-	-	-	-	1	1
			CO4	Apply the concept of capacity building, coping with disaster and disaster management act and policy in India	1	2	1	-	1	1	-	-	-	-	-	-	1	1	-
			CO5	Investigate natural and manmade disasters	-	2	2	1	2	1	-	-	-	-	-	-	1	-	-
															/2			1	

					1. 5 0	1. 7 5	1. 3 3	1. 0 0	1. 5 0	1. 0 0	-	-	-	-	-	-	1. 0 0	1. 0 0	1. 0 0
72	7I T4 - 21	Big Data Analytics Lab	CO1	Implement the basics of data structures like Linked list, stack, queue, set and map in Java.	-	3	-	-	2	-	-	-	-	-	-	-	2	-	-
			CO2	Perform setting up Hadoop in different operating modes, install and run Pig, Hive.	-	-	3	-	3	-	-	-	-	-	-	-	-	-	2
			CO3	Apply different file management task in Hadoop Map Reduce and perform different operations on data using Pig Latin scripts and Hive.	-	-	3	-	3	-	-	-	-	-	-	-	-	-	2
			CO4	Design solutions of some real life big data applications	-	-	-	3	3	-	-	-	-	-	-	-	3	-	-
					-	-	3. 0 0	3. 0 0	3. 0 0	-	-	-	-	-	-	-	3. 0 0	-	2. 0 0
73	7I T4 - 22	Cyber Security Lab	CO1	Apply techniques to identify network vulnerability	-	-	3	-	-	2	-	2	-	-	-	-	2	2	-
			CO2	Perform analysis of Network traffic using network based tools	-	2	3	-	-	2	-	2	-	-	-	-	2	-	2
			CO3	Implement techniques for network scanning and simulation of Intrusion detection systems	-	1	3	-	-	2	-	1	-	-	-	-	3	-	2
			CO4	Design programs to implement encryption and network attack simulations.	-	-	3	2	-	2	-	2	-	-	-	-	2	-	2

			CO5	Design network security solution for a given case study	-	-	3	2	-	2	-	2	-	-	-	-	2	2	2
					-	1. 5 0	3. 0 0	2. 0 0	-	2. 0 0	-	1. 8 0	-	-	-	-	2. 2 0	2. 0 0	2. 0 0
74	7I T7 - 30	Industrial Training	CO1	Identify the importance of emerging technologies and advancements	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO2	Explain the theoretical aspects directly viewing development and other activity in industry and can decide his/her career.	-	3	-	-	-	-	-	-	-	-	-	-	-	-	2
			CO3	Develop the practical skill, team work and ethical thinking while working in industry.	-	-	-	-	-	-	-	3	3	-	-	-	-	2	-
			CO4	Communicate effectively through technical presentation, report and interactions.	-	-	-	-	-	2	-	-	-	3	-	-	2	-	-
			CO5	Present and demonstrate the report using modern tools.	-	-	-	-	3	-	-	-	-	-	-	-	2	-	-
					3. 0 0	3. 0 0	-	-	3. 0 0	2. 0 0	-	3. 0 0	3. 0 0	3. 0 0	-	-	2. 0 0	2. 0 0	2. 0 0
75	7I T7 - 40	Seminar	CO1	Identify the importance of emerging technologies and advancements.	2	-	2	2	3	2	-	-	2	2	2	2	1	3	2
	40		CO2	Review the present literature of any emerging technology to find suitable knowledge.	-	-	-	-	-	2	2	-	-	-	-	2	-	-	2

	CO3	Assemble the knowledge into presentable format.	-	-	-	-	-	2	2	-	2	2	2	2	-	1	1
	CO4	Write the technical report ethically.	-	-	-	-	-	-	-	3	-	-	1	2	-	1	-
	CO5	Present and demonstrate the report using modern tools.	-	-	2	2	2	1	-	-	1	-	-	3	2	-	-
			2. 0 0	-	2. 0 0	2. 0 0	2. 5 0	2. 0 0	2. 0 0	3. 0 0	2. 0 0	2. 0 0	1. 6 7	2. 2 0	1. 5 0	1. 6 7	1. 6 7

12 Course File Sample

Outcome Based Process Implementation Guidelines for Faculty

12.1 Labelling your course file

- Name of faculty:
- · Class- SEM:
- Branch:
- Course Code:
- Course Name:
- Session:

12.2 List of Documents:

- 1. Vision & Mission Statements of the Institute
- 2. Vision & Mission Statements of the Department
- 3. List of PEO, PSO and PO of department
- 4. Personal Time Table
- 5. RTU Svllabus
- 6. Document as per point no. 1-4 in guidelines
- 7. Course Plan
- 8. Document as per point no 6-12 in guidelines
- 9. Document for CO Assessment Stage 1: As per point no 13, up to 13.2.5
- 10. Document for CO Assessment Stage 2: As per point no 13, up to 13.2.5, with comparison to previous
- 11. Document for CO Assessment Stage 3: As per point no 13, up to 13.2.5, with comparison to previous
- 12. Document for CO Attainment through RTU Component: Previous RTU Result: point no. 13.3 upto 13.3.2
- 13. Document for PO attainment through RTU Component: Previous RTU Result: point no. 13.4 upto 13.4.2
- 14. Document for Overall Attainment of PO through CO: As per point no 13.5
- 15. Document for last three years (Repeat process from 6-14 above): Comparative data should be included in course file
- 16. Lecture Notes
- 17. Copy of Assignments questions given from time to time
- 18. Copy of Tutorial Sheets given (if applicable)
- 19. RTU Question Papers with answer
- 20. Internal Assessment Question Papers with answer from time to time
- 21. Topics covered beyond syllabus- References
- 22. Details of any other activity and its assessment through rubric be included
- 23. Mapping department level/ focus activities with your COs

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13 Outcome Based Process Implementation Guidelines for Faculty

Course CO-PO, Preparation, Assessment Formats

Academic Session: 2021-2022	Class:	Semester:

Name of the Faculty:

Subject: Subject Code:

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

- 1. Vision & Mission of Department: Statement and Mapping with Institute Mission Here you have to include department mission & vision statements and show mapping of keywords with institute mission.
- 2. Program Educational Objectives (PEOs): Statement and Mapping with Department Vision & Mission
 - Here you have to include department PEO statements and show mapping of keywords with department vision & mission.
- 3. Program Specific Outcome (PSOs): Statement and Mapping with Department Vision & Mission
 - Here you have to include department PSO statements and show mapping of keywords with department vision & mission.
- 4. Program Outcome (POs): Statement and Mapping with PEO and PSO
 Here you have to include PO statements and show mapping of keywords with department PEOs & PSOs.
- 5. Course Plan (Deployment):

(Please write how you 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

- O coverage of Units by lectures
- O design exercises
- O demonstration of models
- O by assignments

Lecture No.	Lect. No.	Topics, Problems, Applications	CO/LO	Target Date of Coverage	Actual Date of Coverage	Ref. Book/Journal with Page No.
1.	1	Introduction of OS	CO1	12/07/2019	12/07/2019	T1 Page 121 - 126
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						

Example T1: Principles of OS, By Ramesh Soni, Tata MGHill, Edition 2019

- 6. **Course Outcomes:** Look for strong mapping of course with specific PO (2-3). Define Generic Course Outcomes (max 4 to 6) using Blooms Taxonomy. (In case of Lab Course define generic Lab Outcomes LO and refer CO as LO in this document).
 - i. 5IT4-03.1(CO1)-
 - ii. 5IT4-03.2(CO2)-
 - iii. 5IT4-03.3(CO3)-
 - iv. 5IT4-03.4(CO4)-
 - v. 5IT4-03.5(CO5)-

7. CO-PO-PSO Mapping: Mapping Levels: 1- Low, 2- Moderate, 3-Strong

First try to find out 2-3 PO those are strongly related to your subject contents. Go through the contents and try to formulate 4-5 Course Outcome as per bloom taxonomy. Map each CO with PO and PSO as above. While mapping please rethink if you map any PO with 3, it means you are planning to deliver the contents of that level and you will also examine the students at that level.

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

7.1 PO Strongly Mapped: (Example):

O PO2: Write full statement with keywords highlighted o PO3: Write full statement with keywords highlighted o PO4: Write full statement with keywords highlighted

7.2 PO Moderately Mapped: (Example)

O PO1: Write full statement with keywords highlighted O PO11: Write full statement with keywords highlighted

7.3 PO Low Mapped: (Example)

O PO12: Write full statement with keywords highlighted

7.4 PSO Strongly Mapped: (Example)

O PSO 1: Write full statement with keywords highlighted

7.5 PSO Moderately Mapped: (Example)

O PSO 2: Write full statement with keywords highlighted

6.6 PSO Low Mapped: (Example)

O PSO 3: Write full statement with keywords highlighted

8. Rules for CO/LO Attainment 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.

Remember that targets for internal assessment should be higher.

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Course Category	Level 3	Level 2	Level 1
A	60 % of students getting	50-60 % of students	40-50 % of students
	> 60% marks	getting > 60% marks	getting > 60% marks
В	80 % of students getting	60-80 % of students	40-60 % of students
	> 60% marks	getting > 60% marks	getting > 60% marks
С	90 % of students getting	70-90 % of students	40-70 % of students
	> 60% marks	getting > 60% marks	getting > 60% marks

9. End Term RTU Component: CO Attainment Levels

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 and the results of past 3-5 years, you can decide specific range for CO attainment targets for RTU component from the following table.

Course Category	Level 3	Level 2	Level 1
A	50 % of students getting	40-50 % of students	30-40 % of students
	> 60% marks	getting > 60% marks	getting > 60% marks
В	60 % of students getting	40-60 % of students	30-40 % of students
	> 60% marks	getting > 60% marks	getting > 60% marks
С	80 % of students getting	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.	Course Type	Attainment Level=1	Attainment Level=2	Attainment Level=3
1	Theory Courses Mid Semester Exams			
2	Theory Courses University Exam			
4	Practical Courses - Internal Exams			
5	Practical Courses - University Exam			
6	Assignments/Unit Test			
7.	Any other			

10. CO wise Assessment Activities (as Mentioned in Session Plan):

You can plan for each CO, activities/ assessment tools to be conducted/ used for its achievement. Use X to those you select for specific CO. Remove all unused columns.

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								Act	ivities							
CO	Pre	Post	Quiz 1	Quiz	Pre Mid	Post				Semin	Project	Trainin	Discussio	Mid 1	Mid 2	Ind.
	Mid I	Mid I		2	II Test	Mid II	nmen	ment 2	op	ar		g	n			visit
	Test	Test				Test	t 1									
CO ₁																
CO2																
CO3																
CO4																
CO4 CO5																
CO6																

In case of Lab course some activities are as follows:

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

11. CO wise Assessment Activities:

Based on CO-PO mapping, determine targets 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 wise Assessment Tools:

This gives you generalized view of different direct and indirect tools those can be used for assessment / achievement of CO/PO. (Decide which tools are required for assessing a particular CO/LO and in reference to Course A, B, C difficulty level).

Sr. No.	Activity	Assessment	Tools	Weightage	Recommendation
	•	Method		Marks	
1.	Pre-Mid Term 1	Direct	Marks	10	For CO
2.	Post-Mid Term 1	Direct	Marks	10	For CO
3.	Quiz 1	Direct	Marks	10	For CO
4.	Quiz 2	Direct	Marks	10	For CO
5.	Pre Mid Term 2	Direct	Marks	10	For CO
6.	Post Mid Term 2	Direct	Marks	10	For CO
7.	Mid Term 1	Direct	Marks	20	For CO
8.	Mid Term 2	Direct	Marks	20	For CO
9.	Assignment 1	Direct	Marks	10	For CO
10.	Assignment 2	Direct	Marks	10	For CO
11.	Workshop	Indirect	Rubrics	5	For LO
12.	Seminar/ SPL	Indirect	Rubrics	5	For CO/LO
13.	Project (Mini or NSP)	Indirect	Rubrics	20	For LO
14.	Discussion	Indirect	Rubrics	5	For LO
15.	Training	Indirect	Rubrics	20	For LO
16.	Industrial Visit	Indirect	Rubrics	20	For LO
17.	Or any other activity	Direct/	Marks/	any	For LO
		Indirect	Rubrics		
18.					
	for every rubrics you nee ange of marks or weighta				

13. CO Assessment Process:

After every activity (Ideally as per above table): (Frequency of Assessment- Can be taken as monthly). So the assessment can be for all activities held during the month. Do the following.

13.1 Attainment of COs

13.1.1 Attainment Table for CO1: 5IT4-03.1

Student	Pre Mid I Test 10	Quiz 1 10	Assignment 10	Quiz 1 10	WS 10	Training 10	Total (60)	% 0f Marks	Level of Attainment	
Name1									3	
Name2									2	
Name 3									1	
Name 4									2	
Name 5									1	
Name 6									2	
	No. of Stude	ents attain	ed level 3=			% of Stude	nts Attain	ed Level 3:	=	
	No. of Stude	ents attain	ed level 2=			% of Stude	nts Attain	ed Level 2:	=	
	No. of Stude	ents attain	ed level 1=			% of Students Attained Level 1=				
	Target Ach	ieved=?(Check Level 3	% attainm	ent -If N	No Find Gap)				

(Repeat it for all other COs, (CO2 – CO5))

13.1.2 CO-Gap Identifications

COs	CO 1	CO 2	CO 3	CO4	CO5
Target					
Achieved					
Gap					

13.1.3 Gaps Identified:

Describe what the reasons for gaps are

i.

ii.

Overall CO Attainment Table: Example

COs	CO 1	CO 2	CO 3	CO4	CO5	Co6	
Attainment level as per rules							
set	3	1	3	3	3	3	
Average CO attainment through internal assessment	161						

13.1.4: Activities Decided to bridge the gap

Please do analyze whether you could get improvement through activities decided and conducted for improvements. Reason should be noted why / how it is improved or not.

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13.2 Attainment of POs & PSO:

13.2.1 Target-Expected Attainment of PO by attainment of CO- Put all mappings of 3, 2 and 1. Based on CO-PO mapping, determine targets for each PO as average of targets of all relevant COs.

CO						P	O							PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
3CSA101.1															
3CSA101.2															
3CSA101.3															
3CSA101.4															
3CSA101.5															
Obtain Average- PO/PSO Targets	Targets	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 Attainment of POs & PSO through CO as Continuous Evaluation:

Put all attainment values of CO as per mappings with 3, 2, 1 as evaluated in 13.1.1 (Frequency- Monthly)

CO						P	O							PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
5IT4-03.1															
5IT4-03.2															
5IT4-03.3															
5IT4-03.4															
5IT4-03.5															
Obtain Avg. 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 PO Gap Identification:

						P	O							PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Targets															
Achieved															
Gap															

13.2.4 Gaps Identified:

Describe what the reasons for gap (for PO) are.

i.

ii.

13.2.5 Activities Decided to bridge the gap

Please do analyze whether you could get improvement through activities decided and conducted for improvements. Reason should be noted why / how it is improved or not.

Repeat whole process after one month, Two months, and three months. Plot bar chart for improvement in CO, PO & PSO. (Every month)

13.3 Attainment of CO through RTU Exam:

This may be possible for previous semester results so overall attainment. If faculty is changed, data will be evaluated by concerned faculty who taught and handed over to current faculty. If faculty not available, then current faculty will do the same.

Student	RTU Marks	% 0f	Level of Attainment
	(80)	Marks	
Name1			3
Name2			2
Name 3			1
Name 4			2
Name 5			1
Name 6			2
No. of Students at	tained level 3=	% of S	Students Attained Level 3=
No. of Students at	tained level 2=	% of S	Students Attained Level 2=
No. of Students at	tained level 1=	% of S	Students Attained Level 1=
CO Attainment = ? (Check Level 3 % attainmen	t -If No Find (Gap)
Mark X for absent- T	Take avg. of all present		

13.3.1 Attainment of CO through RTU Component:

CO: Course C	Code: Cour	se Name		
Target				
Achieved				
Gap				

13.3.1 Gaps for CO attainment through RTU Component:

Analyze RTU Question paper with respect to COs formulated, contents delivered and students examined, find out reasons for gaps

i.

ii.

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13.3.2 Action to be taken:

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

13.4 Attainment of PO through CO (RTU) Component

Put RTU Results as per target achieved only and mapping level, in following table

	Attainment of PO through CO (RTU) Component														
CO	PO PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02														
	PO1	PO2	PO3	PO12	PSO1	PSO2	PSO3								
3ITA101															

	Attainment of PO through CO (RTU) Component														
3ITA101		PO PSO													
	PO1	01 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1 PSO2 PSO3													
Targets															
Achieved															
Gap															

13.4.1 Gaps in PO through CO from RTU component:

Analyze RTU Question paper with respect to COs formulated & mapped, contents delivered and students examined, find out reasons for gaps

Describe what are the reasons for gap

i.

ii.

13.4.2 Action to be taken:

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 weightage be considered.

- 1. Internal Assessment Total weightage- 40 %
- 2. RTU Component ----- Weightage 60 %

Put all attainments in the following table and compute.

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13.5.1: Table 1

	ient		Internal	l Assessm	ient		
RTU Marks (80)	% of Marks	60% Weightage X6/100 (A)	Overall CO ()	% of Marks	Weightage X4/100 (B)	Total (A+B)	Level of Attainment
							3
							2
							1
							2
							1
							2
ents attained le	evel 3=			% of S	 Students Atta	ined Lev	rel 3=
ents attained le	evel 2=			% of S	tudents Atta	ined Leve	el 2=
ents attained le	evel 1=			% of \$	Students Atta	nined Lev	rel 1=
			Find Gap)				
osent- Take avg. o	of all prese	nt		·		·	
	ents attained le ents attained le ents attained le	ents attained level 3= ents attained level 2= ents attained level 1= at = ? (Check Level 3 % atta	(80) Marks Weightage X6/100 (A) ents attained level 3= ents attained level 2= ents attained level 1=	Marks Weightage CO () X6/100 () Ents attained level 3= Ents attained level 2= Ents attained level 1= Ents attained level 3 % attainment -If No Find Gap)	(80) Marks Weightage CO () Marks X6/100 () (A) Marks Veightage CO () (A) Good Sents attained level 3= % of Sents attained level 2= % of Sents attained level 1= % of Sents attained level 3 % attainment -If No Find Gap)	(80) Marks Weightage X6/100 () Marks X4/100 (B) Marks X6/100 () Marks X4/100 (B) Ents attained level 3= % of Students Attained level 2= % of Students Attained level 1= % of Students Attained level 1= % of Students Attained level 3 % attainment -If No Find Gap)	(80) Marks Weightage X6/100 () Marks X4/100 (A+B) (A+B) (A+B) (A+B) (A+B) (A+B) (A+B) (A+B) (B) (A+B)

OR

13.5.2: Table 2

		RTU		Inter	nal		Interi	nal		Interr	ıal			
					/ Activi		CO2/	Activit	t y		Activi			
				(Wei	ghtage	%)	2 (We	eightag	e	(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 ()	% Of Marks	Weight age X/100	Overal 1 CO ()	% Of Mark s	Weighta ge X/100	Total (A+B+C+ D)	Level of Attainmen t
Name1														3
Name2														2
Name 3														1
Name 4														2
Name 5														1
Name 6														2

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No. of Students attained level 3= Level 3=	% of Students Attained
No. of Students attained level 2= Level 2=	% of Students Attained
No. of Students attained level 1= Level 1=	% of Students Attained
PO Attainment = ? (Check Level 3 % attainment -If No Find Gap)	
Mark X for absent- Take avg. of all present	

13.5.3: Overall PO & PSO Attainment through Course:

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

Attainment	Attainment of Overall PO for Session 2018-2019															
CO		PO PSO														
	PO1	1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1 PSO2 PSO3														
3ITA101																
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															
3CSA101							PO							PSO		
	PO1	1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1 PSO2 PSO3														
Targets		01														
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 check in CO, PO & PSO. (Every Year).

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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 Practical Exam Format
- x. Mid Term Question Paper Format
- xi. Evaluation Sheets Format
- xii. Activity Report Format

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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 i	notes with cover page, Tutorial/Home-Assignment Sheets
	SESSION: 20
NAME OF TAXOUR THE	
NAME OF FACULTY:	
DEPARTMENT:	
CAMPUS:	

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Poornima College of Engineering
131-6, FUICO Institutional Area
Stlapura, JAIPUR

14.3 ABC Analysis Format



Department of Information Technology Even Semester 2021-22

ABC Analysis

Course: B. Tech. Class/Section: 3rd Year/A Date: 10/01/2022
Name of Faculty: XYZ Name of Subject: DME-II Subject Code: 6 IT 4-04

Sr. No.	Category A (Hard topics)	Category B (Topics with average hardness level)	Category C (Easy to understand topics)	Preparedness for "A" topics
1	Bolts subjected to variable stresses.	Goodman line, Soderberg line, Design of machine members subjected to combined, steady and alternating stresses. Design for finite life, Design of Shafts under Variable Stresses,	Variable load, loading pattern, endurance stresses, Influence of size, surface finish, notch sensitivity and stress concentration.	PPT & Notes
2	Design of IC Engine parts: Piston, Connecting rod, Crank shaft	Dell'	********	PPT & Notes
3	Design of IC Engine components: Piston, Cylinder, Connecting Rod and Crank Shaft.	Design of helical compression, tension, torsional springs, springs under variable stresses.	Design of belt, rope and pulley drive system,	SPL & PPT
4	Design and force analysis of spur, helical, bevel and worm gears, Bearing reactions due to gear tooth forces.	Design of gear teeth: Lewis and Buckingham equations, wear and dynamic load considerations.		РРТ
5	Design of Sliding and Journal Bearing: Methods of lubrication, hydrodynamic, hydrostatic, boundary etc. Minimum film thickness and thermal equilibrium.	Selection of anti-friction bearings for different loads and load cycles, Mounting of the bearings, Method of lubrication.		SPL & PPT

14.4 Blown-up Format



BLOWN UP SYLLABUS

Campus: PC	E Course: B.Tech.	Class/Section:	VI th sem./A	Date:06/01/2022
ame of Fac	ulty: XYZ	Name of Subje	ect: DME-II	Code: 6IT4-04
Sr. No.	Topic as pe	er Syllabus	BLOWN UP T	OPICS (Upto 10 Times Syllabus
	PART FATIGUE CONSIDERATIO	27.00		
1	1.1 Review of Fatigue (Lo	pading pattern)	1.1.1 Types of load 1.1.2 What is fatigue 1.1.3 Fatigue curv	ue? e
	1.2 Factor affecting endu	rance limit	1.1.4 Endurance li 1.2.1 Surface finis	
			1.2.2 Size factor 1.2.3 Reliability fa 1.2.4 Temperatur	
	1.3 Notch sensitivity & St	tress concentration	1.3.1 factor of sa 1.3.2 stress cond 1.3.3 stress cond 1.3.4 notch sens 1.3.5 theoretical	centration centration curve
	DESIGN OF MACHINE MI	EMBER	7	
	1.4 Goodman, Goderberg machine member under alternating stress_Design	steady, Variable and	method 1.4.2 Design und 1.4.3 Mean and v 1.4.4 Design for o	
	1.5 Design for finite life		1.5.2 Goodman a	nt of finite life design pproach toward finite life approach for finite life design
	PART-2 DESIGN OF I.C ENGINE P	ARTS		
2	2.1 Design of I .C Engine	Piston	2.1.2 Different ma 2.1.3 Effect of ma	on and its importance? aterials used for the piston. aterials on the Piston design of various pressure and inertia forces

Dr. Mahesh Bundele

Curriculum Delivery Plan

Poornima College of Engineering 131-6, RIICO Institutional Area Stapura, JAIPUR

14.5 Deployment Format



	Campus: PCE Course: B.Tech. Name of Faculty: XYZ			ection: VI th sem./A of Subject: DME-II		Date: 05/ Code: 6]	
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	Machine design
2	Introduction to Unit:1 Introduction of the lecture 1.1.1 Types of load 1.1.2 What is fatigue	L-2	COI	12/01/2022	12/01/2022	Chalk/ Board	by V.B Bhandari & R. S Khurmi Machine design by V.B
	1.1.3 Fatigue curve 1.1.4 Endurance limit Conclusion of the lecture Brief of next lecture				4		Bhandari & R. S Khurmi Page No 34-38
3	Introduction of the lecture 1.2.1 Surface finish factor 1.2.2 Size factor 1.2.3 Reliability factor 1.2.4 Temperature factor Conclusion of the lecture Brief of next lecture	L-3	COI	14/01/2022	14/01/2022	Chalk/ Board	Machine design by V.B Bhandari & R. S Khurmi Page No 44-52
4	Introduction of the lecture 1.3.1 Factor of safety 1.3.2 Stress concentration 1.3.3 Stress concentration curve Conclusion of the lecture Brief of next lecture	L-C	CO1,2	16/01/2022	16/01/2022	Chalk/ Board	Machine design by V.B Bhandari & R. S Khurmi Page No 58-62
5	Introduction of the lecture 1.3.4 Notch sensitivity 1.3.5 Theoretical stress concentration factor Conclusion of the lecture Brief of next lecture	L-5	COI	17/01/2022	17/01/2022	Chalk/ Board	Machine design by V.B Bhandari & R. S Khurmi Page No 73-82
6	Introduction of the lecture 1.4.1 Goodman line, Soderberg line, Gerber parabola method the design of member	L-6	CO1,2	18/01/2022	18/01/2022	Chalk/ Board	Machine design by V.B Bhandari & R. S Khurmi Page No 82-88

Poornima College of Engineering ISI-6, FUICO Institutional Area Stlapura, JAIPUR

14.6 Zero Lecture Format



ZERO LECTURE

			Session:	20 - (Sem	<u>.)</u>		
Cam	pus:		. Course:		Class/S	ection:		
Nam	e of Fac	ulty:		<mark>.</mark>				
				Zero Lect	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: ther detail , Member nternationa	n: ::eea: s: Information of Professional Conference n of Student	nal body, Aca e/Journals etc ts:	s of proficienc demic Proficier				
a). Re	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	struction: atroduction cts and gro	al Language on to subject oup/place the	:%En	vious results: glish;% ate out subject	Hindi (Englis	h not less tha	n 60%)	
b). Re c). Re d). Re		o Society: o Self: h laboratory	: s year and nex	st year:				
6). Sy	llabus							
	nit Name: BC analysi	is (RGB metl	nod) of unit &	topics				

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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	**		11.5	Vi
T1					
T2			97	10	9
T3					
Reference	Books				
R1				60	
R2					
R3	Me = 30 8000			10	
Websites r	elated to subject	-2	•	1.5	
1					
2					

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

8). Syllabus Deployment: -

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

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

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

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

- b). Special Activities (To be approved by HOD & Dean & must be mentioned in deployment):
 - Open Book Test- Once in a semester
 - Quiz Once in a semester
 - Special Lectures (SPL)- Minimum 10% of total no. of lectures including following
 - i. Smart Class by the faculty, who is teaching the subject
 - ii. SPL by expert faculty
 - iii. SPL by expert from industry/academia (other institution)
 - Revision classes (Solving Important Question Bank):- 1 class before Mid Term and 2 classes before End Term Exam
- c). Lecture schedule per week
 - i). University scheme (L+T+P) = ...+...+

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

- d). Introduction & Conclusion: Each subject, unit and topic shall start with introduction & close with conclusion. In case of the subject, it is Zero lecture.
- e). Time Distribution in lecture class: Time allotted: 60 min.
- i. First 5 min. should be utilized for paying attention towards students who were absent for last lecture or continuously absent for many days + taking attendance by calling the names of the students and also sharing any new/relevant information.

- 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

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Orector
Cornima College of Engineering
ISI-6, FIICO Institutional Area
Stapura, JAIPUR

14.7 Lecture Note Front page Format



LECTURE NOTES

ampus: Course:	Class/Section:	Date:
ate (Prep.): Date (Del.):	Lect. N	lo:
OBJECTIVE: To be written before taking the lect will be taught in this lecture)	ture (Pl. write in bullet points the main topics/con	ncepts etc., which
IMPORTANT & RELEVANT QUESTIONS:		
FEED BACK QUESTIONS (AFTER 20 MINUT	ΓES):	
OUTCOME OF THE DELIVERED LECTURE students' feedback on this lecture, level of understa		in bullet points about
REFERENCES: Text/Ref. Book with Page No. ar	nd relevant Internet Websites:	

14.7.1 Detailed Lecture Note Format-1



DETAILED LECTURE NOTES

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

14.7.2 Detailed Lecture Note Format-2



DETAILED LECTURE NOTES PAGE NO.

14.8 Assignment Format



Assignment Sheet-1 Class/Section: III Campus: PCE Course: B.Tech. Date: Name of Faculty: SKT Name of Subject: Analysis of Algorithms Code: 6IT4-04 Date of Preparation: Scheduled Date of Submission: Q. **PSOs** Questions COs POs No. Discuss influence of size, surface, reliability and modifying factor on endurance COL PO₂ PSO1 limit of material. Discuss various methods of mitigation of stress concentration COL PO₂ PSO1 Define the following terms used in design of machine elements PSO1 3 COL PO2 (i) Size Factor (ii) Notch Sensitivity (iii) Surface Finish Factor What do you mean by stress concentration? How do you take it into consideration PSO₁ CO₁ PO₂ in case of components subjected to dynamic loads? 5 Explain difference between Soderberg, Goodman and Gerber criteria in detail. COL PO₂ PSO₁ What is physical significance of notch sensitivity factor being one of zero. COL PO₂ PSO1 6 What is fluctuating stresses? Draw stress-time curves for different fluctuating PSO₁ COL PO₂ stresses. What is endurance strength? Draw S-N diagram and list various factors affecting it. COI PO₂ PSO₁ 9 Draw and describe Goodman and Soderberg diagram. COL PO₂ PSO1 10 Explain modified Goodman diagram for bending stresses. COL PO₂ PSO1

14.9 Tutorial Format



	Тит	ORIAL SHEET			
TUTORIA	L SHEET		SHEET	No	
Name of Fa	Course:	Class/Section:	Code: .		
FIRST 20 MT. CLASS QUESTIONS		Questions		СО	PO
2 HRS. SOLVABLE HOME ASSIGNMENT (H.A.) QUESTIONS					
OTHER IMPORTANT QUESTIONS					

14.10 Mid Term/ End Term Practical Question Paper Format

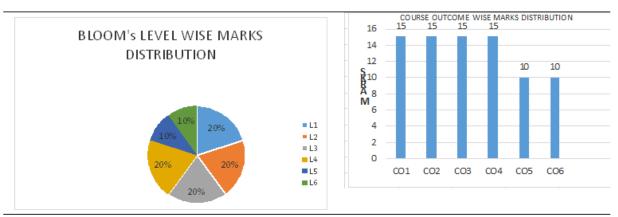
Poornima College of Engineering, Jaipur Department of Information Technology Odd Sem. 2021-22 3IT4-22: Object Oriented Programming Lab I Midterm Practical Exam (Set-1)

	Name of Faculty: Date of Exam:			2 hours
		DO.	Overtices	M1
Q. No.	СО	PO	Question	Marks
1				
2				
•••				
			Poornima College of Engineering, Jaipur Department of Information Technology Odd Sem. 2021-22 3IT4-22: Object Oriented Programming Lab I Midterm Practical Exam (Set-2)	
			Time Duration: Max Marks: 30	2 hours
Q. No.	СО	РО	Question	Marks
1				
2				
•••				
			Poornima College of Engineering, Jaipur Department of Information Technology Odd Sem. 2021-22 3IT4-22: Object Oriented Programming Lab I Midterm Practical Exam (Set-3)	
	e of Fac of Exa	culty: m:	Time Duration: Max Marks: 30	
Q. No.	СО	PO	Question	Marks
1				
2				

14.11 Mid Term Theory Question Paper Format

POORNIMA COLLEGE OF ENGINEERING, JA	AIPUR
II B.TECH. (III Sem.)	Roll No.
FIRST MID TERM EXAMINATION 2022-2	3
Code: 3IT2-01 Category: PCC Subject Name-ADVANCE ENGINE (BRANCH - INFORMATION TECHNOLOG	
•	Course Credit:
Max. Time: 2 hrs.	Max. Marks: 60
NOTE:- Read the guidelines given with each part carefully.	
Course Outcomes (CO):	
At the end of the course the student should be able to:	
CO1:	
CO2:	
CO3:	
CO4:	
CO5:	
CO6:	

F	PART - A: (All questions are compulsory) Max. Marks (10)			
	Marks	CO	BL	PO
Q.1	2			
Q.2	2			
Q.3	2			
4.0				
Q.4	2			
Q.5	2			
	PART - B: (Attempt 4 questions out of 6) Max. Marks (20)			
Q.6	5			
Q.7	5			
Q.8	5			
Q.9	5			
Q.10	5			
Q.11	5			
	PART - C: (Attempt 3 questions out of 4) Max. Marks (30)			<u> </u>
Q.12	10			
Q.13	10			
Q.14	10			
Q. 15	10			_



BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analyzing, 5 – Evaluating, 6 - Creating)

CO - Course Outcomes; PO - Program Outcomes

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14.12 Evaluation Sheet Format (Theory)

	I M	IID TEDI	M THEOD	Y EXAM, 2022-23	POORN			GE O			KING,	IAIPU	K		R	TECH.	II YF	ΔR /III	SEM	1	
		ject Co		LAMIN, ZUZZ-ZJ	Subject			TION	SHEE						о.	ILUM.	n re/	erz (III	JLIVI.)		
		e of Exa			Name of Ex																
Brai	ıch			IT										SE MA							2IT1
					Q. No.	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10	Q.11	Q.12	Q.13	Q.14	Q.15	Total
c					LO No.																
S. No.	Year	Batch	Roll No.	Name of Students	BL No. PO No.																60
NO.					Max.																00
					Marks:																
1	21T	2П1	21/IT/01	AAYUSH KUMAR JHA .	PCE21IT001																0
2	21T	2П1	21/IT/02	AAYUSH SHARMA	PCE21IT002																0
3	21T	2IT1	21/IT/03	ABHISHEK .	PCE21IT003																0
4	21T	2IT1	21/IT/04	ADITYA SHARMA	PCE21IT004																0
5	21T	2П1	21/IT/05	AMAN BATRA	PCE21IT005																0
6	217	2IT1	21/IT/06	ANIMESH KUMAR GARG	PCE21IT007																0
7	2IT 2IT	2IT1	21/IT/07 21/IT/08	ANSHIKA JAIN ANUSH AGARWAL	PCE21IT009 PCE21IT010						_										0
9	211	2IT1	21/IT/09	ARPIT JAIN	PCE21IT011																0
10	211	2П1	21/IT/10	ASHISH AGRAWAL	PCE21IT012																0
11	21T	2П1	21/IT/11	AVINASH KUMAR	PCE21IT013		1		7												0
12	21T	2IT1	21/IT/12	AYUSH KUMAR	PCE21IT014																0
13	21T	2IT1	21/IT/13	AYUSHI SHARMA	PCE21IT511																0
14	217	2IT1	21/17/14	BHAVIN GARG	PCE21IT015		_	ļ	_	_	_									_	0
15 16	2IT 2IT	2IT1 2IT1	21/IT/15 21/IT/16	CHINU GUPTA CHIRAG VIJAYVERGIYA	PCE21IT016 PCE21IT017	<u> </u>	-		-	-	-			—						-	0
				DEEPANSHU SINGH		<u> </u>		-	-	_											
17	211	2IT1	21/IT/17	BHADORIYA	PCE21IT018	L	L	L	L	L	L	L	L	L	L_				L	L	0
18	21T	2П1	21/IT/18	DEVANSH SHARMA	PCE21IT019																0
19	21T	2IT1	21/17/19	DIKSHA SHARMA	PCE21IT020																0
20	217	2IT1	21/17/20	DIVAKAR SHARMA	PCE21IT021		_	-	<u> </u>	_	_									_	0
21	2П	2IT1	21/IT/21	DIVYA JAIN DIVYANSHU SINGH	PCE21IT022	-			-												0
22	21T	2П1	21/IT/22	RATHORE	PCE21IT023																0
23	2П	2П2	21/17/23	HARSH KATTEL	PCE21IT512																0
24	21T	2П2	21/17/24	HARSH KUMAR	PCE21IT024																0
25	21T	2П2	21/IT/25	HARSHIT SENGAR	PCE21IT025																0
26	211	2П2	21/17/26	HIMANSHU BANSAL	PCE21IT026																0
27 28	2IT 2IT	2IT2 2IT2	21/IT/27 21/IT/28	HITESH SHARMA JITENDRA VERMA	PCE21IT027 PCE21IT028																0
29	211	2IT2	21/17/29	KHWAHISH MOHINANI	PCE21IT029																0
30	211	2П2	21/IT/30	KRISHNA JODHA	PCE21IT030																0
31	21T	2П2	21/IT/31	LAVI.	PCE21IT031																0
32	21T	2П2	21/IT/32	LAVISH AGARWAL	PCE21IT032																0
33	2П	2П2	21/IT/33	LOKENDRA SINGH	PCE21IT033																0
34	21T	2П2	21/IT/34	SHEKHAWAT LUCKY TAK	PCE21IT034																0
35	21T	2П2	21/IT/35	MAYANK UPAMANYU	PCE21IT035																0
36	21T	2П2	21/IT/36	MUDIT VIJAY	PCE21IT036																0
37	21T	2П2	21/IT/37	NIDHI JANGIR	PCE21IT037																0
38	21T	2П2	21/IT/38	NIHIT JANGID	PCE21IT038																0
39	21T	2П2	21/IT/39	NIKHAR JAIN	PCE21IT039																0
40 41	2IT 2IT	2IT2 2IT2	21/IT/40 21/IT/41	NIKHIL ACHOLIYA PARTH MITTAL	PCE21IT040 PCE21IT041																0
42	2П	2П2	21/IT/42	PRIYANSH SINGH SOLANKI	PCE2111042																0
43	21T	2П2	21/IT/43	PURVI JAIN	PCE21IT043																0
44	2IT	2П2	21/17/44	RITESH KUMAR SINGH	PCE21IT044																0
45 46	2IT 2IT	2IT3 2IT3	21/IT/45 21/IT/46	RITU SINGH RITU TIWARI	PCE21IT045 PCE21IT046	-			-												0
46	2IT	2IT3	21/IT/46 21/IT/47	ROHIT KUMAR	PCE21IT046 PCE21IT047	-															0
48	211	2П3	21/17/48	SHASHANK SHARMA	PCE21IT048																0
49	2П	2П3	21/IT/50	SHRISH KUMAR	PCE21IT049																0
50	21T	2П3	21/IT/51	SHUBHAM SARIN	PCE21IT063																0
51	21T	2П3	21/17/52	SUPRIYA RANI	PCE21IT051		1				7										0
52	2IT	2П3	21/IT/53	TANMAY KUMAWAT	PCE21IT052		_														0
53 54	2IT 2IT	2IT3 2IT3	21/IT/54 21/IT/55	TANMAY SHARMA TARUN SAINI	PCE21IT053 PCE21IT054	-	-		-	-	-	-	_								0
55	2IT	2IT3	21/IT/56	TUSHAR SINGHAL	PCE21IT054 PCE21IT055																0
56	211	2IT3	21/17/57	VAIBHAV DUBEY	PCE21IT056																0
57	2П	2П3	21/17/58	VAIBHAV JAIN	PCE21IT057																0
58	21T	2П3	21/IT/59	VIDHI JAIN .	PCE21IT058																0
59	21T	2П3	21/IT/60	VINIT KHANDELWAL .	PCE21IT059					_	_										0
60	211	2П3	21/17/61	YASH GODHWANI	PCE21IT060		-				_										0
61 62	2IT 2IT	2IT3 2IT3	21/IT/62 21/IT/63	YASH SHARMA YOGESH YADAV	PCE21IT061 PCE21IT062	-		-	-	-											0
63	211	2IT3	21/IT/64	TANISHQUE SAXENA	PCE21IT062																0
64	211	2П3	21/IT/65	YASH CHATURVEDI	PCE21IT301																0
			ERAGE																		
Α				rks of Present Students	3																0
В				of Present Students	/ D																0
C D				Marks of students = A																	#DIV/0
E				vard out of (each stude ge marks per student (60 #DIV/0
F				of PASS Students	2.2 1001																0
G				. of FAIL Students																	64
Н			Total No	. of ABSENT Students																	0

14.13 Evaluation Sheet Format (Lab)

				AL EXAM, 2022-23	6.41			ATION	SHEE	T					В.	TECH.	II YEA	VR (III	SEM.))	
		e of Ex			Subject Name of E																
3re	nch			IT	100	Ex	perim	ents / C								1/4		Viva			2IT1
					Q. No. LO No.	Q.1	0.2	Q.3	Q.4	Q.5	Q.6	Q.7	0.8	Q.9	Q.10	Q.11	Q.12	Q.13	Q.14	Q.15	Total
S.	V	Dave b	Dall No.	Name of Students	BL No.																
No	Tear	Batch	Roll No.	Name of Students	PO No.																40
	1				Max. Marks:																
1	2П	2871	21/17/01	AAYUSH KUMAR JHA	PCE21ff001																0
2	2/1	2171	21/11/02	AAYUSH SHARMA	PCE210002																0
3	207	2/11	21/IT/03 21/IT/04	ABHISHEK . ADITYA SHARMA	PCE21FF003	-	-	-	-	-			_	\vdash				-			0
5	207	2011	21/17/05	AMAN BATRA	PCEZETTOOS							-									0
6	-2П	2011	21/17/06	ANMESH KUMAR GARG	PCF21/T00Z	10	3		10 /												0
7	2ff	2/11	21/11/07	ANSHKA JAN	PCEZI ITO09	1	73		4				_	\vdash	-						0
9	217	2011	21/IT/08 21/IT/09	ANUSH AGARWAL ARRIT JAIN	PCE21/T010	-	100	9	1	-			-		_		-				0
10	207	2fT1	21/17/10	ASHISH AGRAWAL	PCE21ff012	1	-	-													0
11	207	2571	21/07/11	AVNASH KUMAR	PCE21ff013																0
12	2ff	2071	21/17/12	AYUSH KUMAR AYUSHI SHARMA	PCE21ff014 PCE21ff511	-	-	-	-			_	_	-				_			0
14	20	2071	21/07/14	BHAVIN GARG	PCE21/F015	1			_					\vdash	-						0
15	207	2011	21/17/15	CHINU GUPTA	PCE21ff016																0
16	287	2171	21/IT/16	CHRAG VUAYVERGIYA	PCE21/T017																0
17	511	2171	21.67/17	DEEPANSHU SNGH BHADORIYA	PCE21IT018																0
18	207	2011	21/11/16	DEVANSH SHARMA	PCE21IT019			-													0
19	2ff	2971	21/17/19	DIKSHA SHARMA	PCE21ff020		\vdash		-			-									0
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No			110111101	200100000000000000000000000000000000000	PO No. Max.																40
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23	207	2072	21/11/23	HARSH KATTEL	PCE21ff512																0
24	211	2072	21/17/24	HARSH KUMAR	PCE21fT024																0
26	207	2072	21/IT/25 21/IT/26	HARSHIT SENGAR HMANSHU BANSAL	PCE21IT025 PCE2MT026	-	-	-	-	-	-			\vdash	_	_	_	_		-	0
27	207	2072	21/17/27	HITESH SHARMA	PCE21/1027			_				R.	-								0
28	207	2072	21/11/28	JITENORA VERMA	РСЕЗАПОЗВ	W			10 /			100	11								0
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30	207	2072	21/17/30	KRISHNA JODHA	PCE21ff030	-	100	-	9			- Common	100	\vdash	-	-					0
32	201	2/T2	21/11/32	LAVISH AGARWAL	PCE21IT031			-													0
33	211	2072	21/0/33	LOKENDRA SNIGH	PCE21IT033																0
34	201	2072	21/07/34	SHEKHAWAT LUCKY TAK	PCE21/1034	-	\vdash	-	\vdash	-			-	\vdash					-		0
35	201	2012	21/11/34	MAYANK UPAMANYU	PCE21IT034 PCE21IT035	1	-														0
36	211	2972	21/11/36	MUDIT VUAY	PCE21/T036																0
37	207	2012	21/17/37	NIDHI JANGIR	PCE21/T037																0
38	207	2072	21/IT/38 21/IT/39	NAT JANGE MAL RAHON	PCE21ff038 PCE21ff039	-	-	1	-					\vdash							0
40	211	2012	21/17/40	NIKHE ACHOLIYA	PCE21IT040																0
41	217	2072	21/17/41	PARTH MITTAL	PCE21ff041			100													0
42	211	2072	21/17/42	PRIYANSH SINGH SOLANKI	PCE21ff042																0
43	207	2072	21/17/43	PURVI JAIN	PCE21ff043																0
44	2ff	2872	21/17/44	RITESH KUMAR SWOH	PCE21IT044		100		100		0.00	10000									0
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S.	V-	P.	Roll No.	Name of Students	BL No.																
No	· ear	Datch	KUII NO.	Haine or students	PO No.																40
					Max. Marks:						700										
45	2ff	2013	21/17/45	RITU SNIGH	PCE21IT045																0
46	207	2073	21/17/46	RITU TWARI	PCE21fT046																0
47	207	2073	21/IT/47 21/IT/48	ROHIT KUMAR SHASHANK SHARMA	PCE21fT047 PCE21fT048	-	-														0
49	217	2013	21/17/50	SHRISH KUMAR	PCE21IT048																0
50	207	2573	21/17/51	SHUBHAM SARN	PCE21ff063																0
51	211	2073	21/17/52	SUPRIYA RANI	PCE21FIOST				-			1	-								0
53	207	2073	21/IT/53 21/IT/54	TANMAY KUMAWAT TANMAY SHARMA	PCE21/052	9	-	-	11 /	-		-	2								0
54	207	2013	21/IT/55	TARUN SAINI	PCE21/T054	-	1		# (100									0
55	2/1	2073	21/07/56	TUSHAR SNOHAL	PCERTOSS	0	PR.	0	10	-		-	-					1			0
56	2ff	2073	21/17/57	VABRAY DUBEY	PCE21ff056			-	-										-		0
58	207	2073	21/IT/58 21/IT/59	VAIBHAV JAIN VIDHI JAIN	PCE21/T057 PCE21/T058		-	-	-		-										0
59	207	2013	21/17/60	VNIT KHANDELWAL	PCE21ff059																0
60	217	2073	21/17/61	YASH GODHWANI	PCE21/T060																0
61	211	2173	21/17/62	YASH SHARMA	PCE21IT061																0
62	207	2073	21/IT/63 21/IT/64	YOGESH YADAV TANISHQUE SAXENA	PCE21fT362 PCE21fT300		-	-	-												0
	201	2013	21/17/65	YASH CHATURVEDI	PCE21/T301										3 11						0
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Poornima College of Engineering
ISI-6, RIICO Institutional Area

15. List of Important Links

	List of Impo	ortant Links
Sr. No.	Link	Particulars
1	https://www.rtu.ac.in/index/	Rajasthan Technical University
2	http://www.pce.poornima.org	Institute Website
3	http://www.pce.poornima.org/Downloads.ht ml	Format of Students & Employees
4	https://www.turnitin.com/login_page.asp?lan g=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.Y ou	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
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 take	en from Respective Department Heads

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Stlapura, JAIPUR



DEPARTMENT OF INFORMATION TECHNOLOGY

CURRICULUM DELIVERY PLAN

OUTLINE- EVEN SEM-2021-22



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

• Phone: +91-141-2770790 • E-mail: infor@poornima.org

• Website: www.poornima.org

Dr. Mahesh Bundele

Poornima College of Engineering

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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 Vision & Mission Statements

2.1 Vision & Mission Statements of the Institute

Vision of Institution

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

Mission of Institution

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

2.2 Vision & Mission Statements of the Programme B. Tech. (Information Technology)

2.2.1 Vision of Department

To attain distinction in education to enable students for their establishment as **globally competent professional** and empowering them with proficiency, **knowledge** and **research ability** required to be successful in field of Information Technology.

2.2.2 Mission of Department

- 1. To provide **state-of-the-art facilities** with **modern IT tools** to students and faculty thereby enabling them to develop **sustainable solutions** for real world problems.
- 2. To create and propagate knowledge in field of Information Technology through **research**, **teaching** and **learning** for meeting **societal challenges**.
- 3. To inculcate **analytical**, **leadership** and **team working** skills with **ethical behavior** in students and provide an environment for **continuous learning**.

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2.2.3 PEO of the Department

Program Educational Objectives (PEOs

- 1. **PEO 1**: Graduate will have Fundamental & multidisciplinary knowledge with an ability to analyze, design, innovates and handles the realistic problems.
- 2. **PEO 2**: Graduate will possess ethical conduct, sense of responsibility to serve society and protect the environment.
- 3. **PEO 3**: Graduate will have strong foundation in academics, leadership qualities and lifelong learning for a prosperous professional career.

Dr. Mahesh Bundele

B.E., M.E., Ph.D.

Director

Poornima College of Engineerin

131-6, Fulco Institutional Acad

2.2.4 Program Specific Outcome (PSOs)

- **PSO1.** Design, analyze and innovate solutions to technical issues in Thermal, Production and Design Engineering.
- **PSO2.** Exhibit the knowledge and skills in the field of Mechanical & Allied engineering concepts.
- **PSO3.** Apply the knowledge of skills in HVAC&R and Automobile engineering.

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 Information Technology, 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-IT	Chairman, IQAC	Dr. Mahesh M. Bundele (Principal & Director, PCE)	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
2	Member Secretary	Chairman, DAB- IT	Dr. Gajendra Singh Rajawat Head, Department of Information Technology	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
3	Faculty	Chairman, DAB-	Dr. Nitesh Kaushik	Poornima College of

	representative-1	IT	ProfIT	Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
4	Faculty representative-2	Chairman, DAB- IT	Mr. Amol Saxena Asst. Prof IT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
5	Faculty representative-3	Chairman, DAB- IT	Ms. Shazia Haque Asst. ProfIT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
6	Faculty representative-4	Chairman, DAB- IT	Mr. Shirish Nagar Asst. Prof IT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
9	Special Invitee	Chairman, DAB-IT	Dr. Rekha Nair Dean I Year, Poornima College of Engineering, Jaipur	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
10	Alumni Representative-1	Chairman, DAB- IT	Prabhav Jain (2020 passout)	Celebal
11	Alumni Representative-2	Chairman, DAB-IT	Ayush Trivedi (2020 passout)	CITICORP SERVICES PVT. LTD.
12	Student Representative	Chairman, DAB-IT	Tilak Atri (2024 batch)	Third Year ECE
13	Industry Representative	Chairman, DAB-IT	Mr. Aniruddh Agarwal, Founder & CEO, Extern Labs Private Limited, Jaipur	CEO, Extern Labs Private Limited, Jaipur
14	Parents Representative-1	Chairman, DAB- IT	Mr. Rakesh Singh Chandawat (F/o Harshvardhan	A-39, Ganesh Nagar New Sanganer Road, Sodala Jaipur 302019 Rajasthan

			Singh Chandawat), A-39, Ganesh Nagar New Sanganer Road, Sodala Jaipur 302019 Rajasthan	
15	Parents Representative-2	Chairman, DAB-IT	Mr. Mahesh Khandelwal (F/o Yashika Khandelwal) C 74, Pani Pech Prem Colony, Nehru Nagar Jaipur 302016 Rajasthan	C 74, Pani Pech Prem Colony, Nehru Nagar Jaipur 302016 Rajasthan

3.1.4 Meeting Frequency & Objectives

Meeting	Meeting	Meeting	Meeting Objective
No.	Code	Month-Week	
1.	DAB-1	July First Week	Consideration of gaps and proposed activities by PAC last meeting to be implemented in DAC and CDP.
			 Prepares final draft of CDP and DAC to be proposed in upcoming IQAC meeting
2.	DAB-2	September Second Week	 Approval / Suggestions of proposals from last PAC Meeting. Revision of DAB Drafts for being proposed in upcoming GC
3	DAB-3	December First Week	 Draft preparation for DAC and CDP for upcoming semester after considering inputs from PAC. Review Semester closure draft from PAC.
4.	DAB-4	April Last Week / May First 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 GC sessions and compiling it with ATR-1

3.2 Program Assessment Committee

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9 Director
Peornima College of Engineering
181-6, RIICO Institutional Area
Stlapura, JAIPUR

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 predefined methods.
- **4.** Execute Industry-Institute Interactions to enhance the employability thereby meeting the industry standards and requirements.
- 5. Implement Curriculum Delivery Plan & Department Academic Calendar.

3.2.3 Department-Wise Composition

S. No.	Category	Nominated by	Name of Members	Address
1	Chairman, PAC-IT	Chairman, IQAC / Head of Institution	Dr. Gajendra Singh Rajawat Head, Department of Information Technology	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
2	Member Secretary	Chairman, PAC-IT	Dr. Nitesh Kaushik ProfIT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
3	Faculty representative-1	Chairman, PAC-IT	Dr. Sandeep Bhargava Assoc. Prof IT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
4	Faculty representative-2	Chairman, PAC-IT	Mr. Shirish Nagar Asst. Prof IT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
5	Faculty representative-3	Chairman, PAC-IT	Ms. Shazia Haque Asst. ProfIT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur

3.2.4 Meeting Frequency & Objectives

	.2.4 Meeting Frequency & Objectives								
Meetin	Meetin	Meeting	Meeting Objective						
g	g	Month-							
No.	Code	Week							
			Execution of Academic, Extra and Co-Curricular activities						
		Luly	Regular assessment of Academic, Extra and Co-Curricular activities						
1.	PAC-1	July 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						
		A	Regular assessment of Academic, Extra and Co-Curricular activities						
2.	PAC-2	August 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						
			Regular assessment of Academic, Extra and Co-Curricular activities						
		G . 1	Regular calculation of attainments						
3	PAC-3	September Last Week	Revision of academics gaps as previous attainment						
		Last week	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						
	PAC-4		Execution of Academic, Extra and Co-Curricular activities according to						
4		October Last Week	suggestions in GC						
4.			Regular assessment of Academic, Extra and Co-Curricular activities						
			Regular calculation of attainments						
			Revision of academics gaps as previous attainment						
			Revision of academics gaps as previous attainment						
		November	Regular assessment of Academic, Extra and Co-Curricular activities						
5.	PAC-5	Third	Identification and proposal of gaps and activities to be considered by DAB to						
J.	PAC-5	Week	prepare Department Academic Calendar and CDP for upcoming semester.						
		VV CCK	Semester closure report draft to be prepared						
			Elective proposals/CBCS						
			• Incorporation of suggestions from IQAC and DAB meetings in execution of						
		December	Semester activities						
6.	PAC-6	Third	Execution and assessment of Academic, Extra and Co-Curricular activities						
		Week	Revision of academics gaps as previous attainment						
			Calculation of attainments						
			Execution of Academic, Extra and Co-Curricular activities						
		January	Regular assessment of Academic, Extra and Co-Curricular activities						
7.	PAC-7	Last Week	Regular calculation of attainments						
		Lust 11 COR	Revision of Academics gaps						
			Prepared regular report of program for all assessment, attainment & gaps						
			Execution of Academic, Extra and Co-Curricular activities						
		February	Regular assessment of Academic, Extra and Co-Curricular activities						
8.	PAC-8	Last Week	Regular calculation of attainments						
		Lust 11 COR	Revision of Academics gaps						
			Prepared regular report of program for all assessment, attainment & gaps						
9.	PAC-9	March	Execution of Academic, Extra and Co-Curricular activities						
٠.	1110)	Last Week	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 					
			Draft preparation of Semester closure					
			• Execution of Academic, Extra and Co-Curricular activities					
	PAC-	April	 Regular assessment of Academic, Extra and Co-Curricular activities 					
10.	10	Second	Regular calculation of attainments					
	10	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 					
			Regular calculation of attainments					
11.	PAC-	May	Revision of Academics gaps					
11.	11	Last Week	 Prepared regular report of program for all assessment, attainment & gaps 					
			 Report submission of Semester closure 					
			• Identification and proposal of gaps and activities to be considered by DAB to					
			prepare Department Academic Calendar and CDP for upcoming semester.					
	PAC-	June	Feedback of last IQAC and suggestions for new semester to be implemented in					
12.	12	Last Week	CDP and DAC					
	12	Last Week	• Elective proposals/CBCS					

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

Sr. No.	Faculty Name	Emp.ID	Designation	Email ID	Mobile No.
1.	MR. AMOL SAXENA	1114	ASST PROFESSOR	amolsaxena@hotmail.com	9982776883
2.	MS. SHAZIA HAQUE	1218	ASST PROFESSOR	shaziahaque@hotmail.com	9829318125
3.	MR. PRAVEEN KR. YADAV	1347	ASST PROFESSOR	praveen.yadav@poornima.org	9057571954
4.	MR. SHIRISH NAGAR	1685	ASST PROFESSOR	shirishnagar83@gmail.com	8003514249
5.	MS. SITA GUPTA	3640	ASST PROFESSOR	sita.gupta@poornima.org	9785404340
6.	MR. SANDEEP BHARGAVA	5990	ASST PROFESSOR	sandeep.bhargava@poornima.org	8118864109
7.	Dr. GAJENDRA SINGH RAJAWAT	6698	HOD & PROFESSOR	gajendra.rajawat@poornima.org	9414719108
8.	Ms. SNEHAL MOGHE	6994	ASST PROFESSOR	snehalmoghe1411@gmail.com	9630041244
9.	Dr. NITESH KAUSHIK	5792	PROFESSOR	nitesh.kaushik@poornima.org	9351345599
10.	MR. PRINCE DAWAR	3453	ASST PROFESSOR	dawarprince83@gmail.com	8440964941
11.	MS. KALPANA SHARMA	6050	ASST PROFESSOR	klpna.sharma88@gmail.com	9413077523
12.	Dr. RANDHIR SINGH BAGHEL	5846	ASSOCIATE PROFESSOR	randhirsingh.baghel@poornima.org	9827658770

Poornima College of Engineering, Jaipur

13.	Mr. SAURABH	3186	ASST PROFESSOR	saurabhanand@gmail.com	9783334004	
	ANAND	3100	ASSI PROFESSOR			ĺ

Institute Academic Calendar

							1 10-1-12 10-1-12 10-1-1							
J	Sun Mon Tue Wed Thu Fri Sat POORNIMA													
Sun	Mon	Tue	Wed	Thu	Fri	Sat	2 (2-2)	OORNIMA						
30	31					1		OLLEGE OF ENGINEERING						
2	3	4	5	6	7	8		Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NBA						
9	10	11	12	13	14	15		representation of the second o						
16	17	18	19	20	21	22	ACADEMIC	CALENDAR 2021-22**						
23	24	25	26	27	28	29	NonDellino	EVEN SEMESTER						
FE	BR	LLA	RY	2	02	22		EAEM SEMESIEN						
Sun	Mon	Tue	Wed	Thu	Fri	Sat		January 2022						
		1	2	3	4	5	Saturday, 08	Annual Alumni Meet [VIRTUAL MODE]						
6	7	8	9	10	11	12	Thursday, 20	First Day, B. Tech. VI and VIII Sem.						
13	14	15	16	17	18	19	Thursday, 27	First Day, B. Tech. IV Sem.						
20	21	22	23	24	25	26		AND THE PROPERTY OF THE PROPER						
27	28						Wednesday, 26	Republic Day Celebration						
	ΜА	RC	н.	20	22	2	2024 2011 2021 2021 2021 2021	February 2022						
	Mon	1		_	Fri	Sat	Wednesday, 23 to Saturday, 26	Aarohan -2022						
Jun		1	2	3	4	5		March 2022						
6	7	8	9	10	11	12	Friday, 11 to Saturday, 12	Wise Activity						
13	14	15	16	17	18	19	Friday, 25 to Sunday, 27	Hostel Fest (AAYAM, TATVA TORQUE, PARAM, AADHYAY)						
20	21	22	23	24	25	26		April 2022						
27	28	29	30	31			Friday,01	First Day, B. Tech. II Sem.						
	AF		- 5	10	2 7									
Sun		100	Wed		Fri	Sat	Monday, 04 to Saturday, 09	First Mid Term Examination for B. Tech VI & VIII Sem						
oun	mon	Tue	woou	IIIu	1	2	Monday, 25 to Saturday, 30	First Mid Term Examination for B. Tech IV Sem						
3	4	5	6	7	8	9		May 2022						
10	11	12	13	14	15	16	Friday, 06 to Sunday, 08	Mentorship Summit / Students' Council Meet						
17	18	19	20	21	22	23	Saturday, 14	Last Teaching Day for B. Tech VI & VIII Sem						
24	25	26	27	28	29	30	Monday, 16 to Saturday, 21	Second Mid-Term Examination for B.Tech VI & VIII Sem						
	м	AY	21	02	2	1	Monday, 23 to Saturday, 28	First Mid Term Examination for B. Tech II Sem						
Sun			Wed		Fri	Sat	Monday, 23 to Wednesday, 25	End-Term Practical Exams for B.Tech VI & VIII Sem						
1	2	3	4	5	6	7	monday, 20 to 11 ouncody, 20	June 2022						
8	9	10	11	12	13	14								
15	16	17	18	19	20	21	Monday, 06 to Saturday, 11	Second Mid-Term Examination for B.Tech IV Sem						
22	23	24	25	26	27	28	Monday, 13 to Wednesday, 15	End-Term Practical Examination for B. Tech IV Sem						
29	30	31						July 2022						
	, lu	INIE	2	O.	2.7		Monday, 04 to Saturday, 09	Second Mid-Term Examination for B.Tech II Sem						
Sun	Mon	_	_	_	Fri	Sat	Monday, 11 to Wednesday, 13	End-Term Practical Examination for B. Tech II Sem						
ouit	MUII	. 46	1	2	3	4								
5	6	7	8	9	10	11								
12	13	14	15	16	17	18	HOLIDA	YS IN EVEN SEMESTER 2021-22						
19	20	21	22	23	24	25								
26	27	28	29	30			1 Winter Break	As per RTU Examination Schedule						
	. 1	ILLS	2	ПЗ	2		2 Makar Sankranti	Friday, January 14 to Saturday, January 15, 2022						
Sun	Mon			_		Sat	3 Celebration of Republic Day	(t) (1) (t)						
31	HI OII	146			1	2	4 Holi	Friday, March 18 to Saturday, March 19, 2022						
3	4	5	6	7	8	9	5 Ramzan Id/Eld-ul-Fitar	Tuesday, May 03, 2022						
10	11	12	13	14	15	16	6 Summer Break	As per RTU Examination Schedule						
17	18	19	20	21	22	23	#Subject to mulcion or no DT	II notifications						
24	25	26	27	28	29	30	*Subject to revision as per RT *For all Engineering Faculty an							
	-		•		-	_		A PRODUCTION OF THE SECOND						

Dr. Mahesh Bundele

14 B.E., M.E., Ph.D.

Peornima College of Engineering
ISI-6, RIICO Institutional Area
Stlapura, JAIPUR

6 Department Activity Calendar

Poornima College of Engineering, Jaipur

Calendar for Information Technology: EVEN Semester - Session 2021-22

		(A) Academic P	rocesses				
S. No.	Activity/ Process	B.Tech. II Sem.	B.Tech. IV Sem.	B.Tech. VI Sem.	B.Tech. VIII Sem.		
1	Date of Registration & start of regular classes for	Friday,01, April 2022	Thursday, 27, January	Thursday, 20, January	Thursday, 20, January		
2	Orientation programme	Friday, 01 to Thursday, 07, April	Thursday, 27 January to 04 February, 2022	Thursday, 27 January to 04 February, 2022	Thursday, 27 January to 04 February, 2022		
3	Date of submission of question papers by faculty members to secrecy for 1st Mid-term	Monday 9, May 2022	Monday 11, April 2022	Monday 11, April 2022	Monday 11, April 2022		
4	I Mid Term Theory & Practical Exam	Monday, 23 to Saturday, 28, May	Monday, 25 to Saturday, 30, April 2022	Monday, 04 to Saturday, 09, April 2022	Monday, 04 to Saturday, 09, April 2022		
5	Showing evaluated answer books of 1st Mid-term exam to students in respective classes	Monday, 06/06/2022	Saturday, 07/05/2022	Saturday, 16-04-2022	Saturday, 16-04-2022		
6	Last date of submission of Evaluated Answer Books and Mark of First Mid-term Theory & Practical exam to Exam and Secrecy Cell respectively	Saturday, 4 June 2022	Thursady, 5 May 2022	Saturday, 16 April 2022	Saturday, 16 April 2022		
7	Date of submission of question papers by faculty members to secrecy for 2nd Mid-term	Monday, 27 June 2022 Monday, 30 May 2022		Monday, 2 May 2022	Monday, 2 May 2022		
8	Revision classes						
9	Last Teaching Day*	Thursday, 30 June	Friday 3 June 2022	Saturday, 14, May 2022	Saturday, 14, May 2022		
10	2nd Mid-term theory & Practical Exams*	Monday, 04 to Saturday, 09, July 2022	Monday, 06 to Saturday, 11, June 2022	Monday, 16 to Saturday, 21, May 2022	Monday, 16 to Saturday, 21, May 2022		
11	End-Term Practical Exams	Monday, 11 to Wednesday, 13, July	Monday, 13 to Wednesday, 15, June 2022	Monday, 23 to Wednesday, 25, May	Monday, 23 to Wednesday, 25, May		
		(B) Events and A	Activities				
12	Replicon, Software Engineer Diksha Kejriwal - IBM India, Associate S/W Engineer	05 March,2022					
13	WISE Activity - Placement Process and preparation for placement interviews	05 March,2022					
14	Workshop on Enterpreneurship and Startup	28 March 2022					
15	A seminar on SAP AppGyver Platform	20" April-2022					
		(C) Holida	ıys				
16	Makar Sankranti		Friday, January 14 to Sa	aturday, January 15, 2022			
	C 4 4 4 AP 4 4 B			,, , , , , , , , , , , , , , , , , , , ,			

"स्वच्छ भारत.. सम्पन्न भारत.."

Wednesday, January 26, 2022

Friday, March 18 to Saturday, March 19, 2022

Tuesday, May 03, 2022

*Subject to change as per RTU Exam Schedule

Celebration of Republic Day

Ramzan Id/Eid-ul-Fitar

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20 21 22

Teaching Scheme

7.1 RTU Teaching Scheme



RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme B.Tech. : Information Technology 2nd Year - IV Semester

			THEO	RY							
SN	Categ	Course			Contact hrs/week			Marks			
	ory	Code	Title	L	т	P	Exm Hrs	IA	ETE	Total	
1	B5C	4IT2-01	Discrete Mathematics Structure	3	0	0	ø	30	70	100	3
10	нѕмс	4IT1-03/ 4IT1-02	Managerial Economics and Financial Accounting / Technical Communication	n	0	0	ca	30	70	100	2
3	ESC	4IT3-04	Principle of Communication	3	0	0	3	30	70	100	3
4		4IT4-05	Database Management System	3	0	0	03	30	70	100	3
5	PCC	4174-06	Theory of Computation	3	0	0	3	30	70	100	3
6		4IT4-07	Data Communication and Computer Networks	3	0	0	3	30	70	100	3
			Sub Total	17	0	0					17
			PRACTICAL &	SES	5101	IAL					
8		4IT4-21	Linux Shell Programming Lab	0	0	2		60	40	100	1
ø,	PCC	4174-22	Database Management System Lab	0	0	3		60	40	100	1.5
10	PCC	4174-28	Network Programming Lab	0	0	3		60	40	100	1.5
11	1	4174-24	Java Lab	0	0	2		60	40	100	1
12		4IT4-25	Web Technology Lab	0	0	2		60	40	100	1
13	SODE CA	4178-00	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

Li Lecture, Ti Tutorial, Pi Practical, Cri Credits

ETE: End Term Exam, IA: Internal Assessment

Office of Dean Academic Affairs Rajasthan Technical University, Kota

Dr. Mahesh Bundele 16 B.E., M.E., Ph.D.

Director



RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme B.Tech.: Information Technology 3rd Year – VI Semester

			THEO	RY							
SN	Categ		Course	Contact hrs/week			Mark	s			Cr
	ory	Code	Title	L	т	P	Exm	IA	ETE	Total	
1	ESC.	6IT3-01	Digital Image Processing	2	0	0	3	30	70	100	2
2		6IT4-02	Machine Learning	3	0	0	3	30	70	100	3
3		6IT4-03	Information Security System	2	0	0	3	30	70	100	2
4	PCC	6IT4-04	Computer Architecture and Organization	3	0	0	3	30	70	100	3
5	/PEC	6IT4-05	Artificial Intelligence	2	0	0	3	30	70	100	2
6		6IT4-06	Distributed System	3	0	0	3	30	70	100	3
7]	Professions	al Elective 1 (Any one)	2	0	0	3	30	70	100	2
		6IT5-11	Information Theory & Coding								
]	6IT5-12	Cloud Computing								
		6IT5-13	Ecommerce & ERP								
			Sub Total	17	0	0					17
			PRACTICAL &	SESS	ION	AL					
8		6IT4-21	Digital Image Processing Lab	0	0	3	2	60	40	100	1.5
9]	6IT4-22	Machine Learning Lab	0	0	3	2	60	40	100	1.5
10]	6IT4-23	Python Lab	0	0	3	2	60	40	100	1.5
11	PCC	6IT4-24	Mobile Application Development Lab	0	0	3	2	60	40	100	1.5
12	SODE CA	6IT8-00	Social Outreach, Discipline & Extra Curricular Activities						100	100	0.5
			Sub- Total	0	0	12	-				6.5
		T	OTAL OF VI SEMESTER	17	0	12					23.5

Li Lecture, Ti Tutorial, Pi Practical, Cri Credits ETE: End Term Exam, IA: Internal Assessment

> Office of Dean Academic Affairs Rajasthan Technical University, Kota



RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Scheme & Syllabus

IV Year- VII & VIII Semester: B. Tech. (Information Technology)

Teaching & Examination Scheme **B.Tech.: Information Technology** 4th Year - VIII Semester

Course Contact hrs/week Marks Cr														
			Course				Mark	5			Cr			
SN	_	_		hr	s/w	eek		_	.	1				
	ory	Code	Title	L	T	P		IA	ETE	Total				
1	PCC	8IT4-01	Internet of Things	3	0	0	ø	30	120	150	3			
2	OE		Open Elective - II	3	0	0	80	30	120	150	3			
			Sub Total	6	0	0	6	60	240	300	6			
3		8IT4-21	Internet of Things Lab	0	0	2	2	80	20	50	1			
4	PCC	8IT4-22	_	0	0	2	2	30	20	50	1			
5	P5IT	8IT7-50	Project	3	0	0		210	140	350	7			
6	SODE CA	8178-00	Social Outreach, Discipline & Extra Curricular Activities							25	0.5			
			Sub- Total	0	0	4	4	120	80	475	9.5			
		TOT	AL OF VIII SEMESTER	6	0	4	10	180	320	775	15.5			

Li Lecture, Ti Tutorial, Pi Practical, Cri Credits

ETE: End Term Exam, IA: Internal Assessment

Dr. Mahesh Bundele

B.E., M.E., Ph.D. Director

8 PCE Teaching Scheme

POORNIMA COLLEGE OF ENGINEERING, JAIPUR

DEPARTMENT OF INFORMATION TECHNOLOGY

Teaching Scheme - Se	ession 2021-22	(EVEN SEMESTER))
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		Teaching Scheme - Session 2021-2						
S. No	CODE	SUBJECT	L	T	P	No. of Batches	LOAD	Teaching Dept
1	4IT2-01	Discrete Mathematics Structure	4	1	0	3	7	Maths
2	4IT1-02	Technical Communication	2	0	0	3	2	Humanities
3	4IT3-04	Principle of Communication	3	0	0	3	3	EC
4	4IT4-05	Database Management System	3	0	0	3	3	IT
5	4IT4-06	Theory of Computation	3	1	0	3	6	IT
6	4IT4-07	Data Communication and Computer Networks	3	0	0	3	3	IT
7	4IT4-21	Linux Shell Programming Lab	0	0	2	3	6	IT
8	4IT4-22	Database Management System Lab	0	0	2	3	6	IT
9	4IT4-23	Network Programming Lab	0	0	2	3	6	IT
10	4IT4-24	Java Lab	0	0	2	3	6	IT
11	4IT4-25	Web Technology Lab	0	0	2	3	6	IT
12	4ITNSP	NSP	0	0	0	3	0	IT
13	6IT3-01	Digital Image Processing	3	0	0	3	3	EC
14	6IT4-02	Machine Learning	3	0	0	3	3	IT
15	6IT4-03	Information Security System	3	0	0	3	3	IT
16	6IT4-04	Computer Architecture and Organization	4	0	0	3	4	IT
17	6IT4-05	Artificial Intelligence	3	0	0	3	3	IT
18	6IT4-06	Distributed System	3	0	0	3	3	IT
19	6IT5-12	Cloud Computing	3	0	0	3	3	IT
	6IT5-13	Ecommerce & ERP	3	0	0	3	3	IT
20	6IT4-21	Digital Image Processing Lab	0	0	2	3	6	EC
21	6IT4-22	Machine Learning Lab	0	0	2	3	6	IT
22	6IT4-23	Python Lab	0	0	2	3	6	IT
23	6IT4-24	Mobile Application Development Lab	0	0	2	3	6	IT
24	6NSPIT	NSP	0	0	0	3	0	IT
25	8IT4-01	Internet of Things	3	0	0	2	3	IT
26	OE	Open Elective - II	3	0	0	2	3	Other Branch
27	8IT4-21	Internet of Things Lab	0	0	3	2	6	IT
28	8IT4-22	Software Testing and Validation Lab	0	0	3	2	6	IT
29	8IT7-50	Project	0	0	6	2	12	IT
		Total					133	

Poornima College of Engineering ISI-6, FUICO Institutional Area Stlapura, JAIPUR

Marking Scheme 8.1

	MARKING SCI						EXAM	& SECRECY			•
			Mid Term Ex		Atten & Pe			_	nd Term Exa		Max.
Code	SUBJECT Engineering Chemistry	Ехр.	Viva	Total	Attn.	Perf.	Total	Ехр.	Viva	Total	Marks
2FY2-21	Lab	30	10	40	10	30	40	30	10	40	100
2FY2-20	Engineering Physics Lab	30	10	40	10	30	40	30	10	40	100
2FY1-23	Human Values Activities and Sports	30	10	40	10	30	40	30	10	40	100
2FY1-22	Language Lab	30	10	40	10	30	40	30	10	40	100
20.40.00	Manufacturing		40	40	40		40		40	40	400
2FY3-25	Practices Workshop	30	10	40	10	30	40	30	10	40	100
2FY3-24	Computer Programming Lab	30	10	40	10	30	40	30	10	40	100
2FY3-27	Basic Civil Engineering Lab	30	10	40	10	30	40	30	10	40	100
2FY3-26	Basic Electrical	30	10	40	10	30	40	30	10	40	100
	Engineering Lab Computer Aided	30	10				40	30	10		
2FY3-29	Machine Drawing Computer Aided			40	10	30				40	100
2FY3-28	Engineering Graphics	30	10	40	10	30	40	30	10	40	100
4CE4-21	Material Testing Lab Hydraulics Engineering	30	10	40	10	30	40	30	10	40	100
4CE4-22	Lab	30	10	40	10	30	40	30	10	40	100
4CE4-23	Building Drawing	30	10	40	10	30	40	30	10	40	100
4CE4-24	Advanced Surveying Lab	30	10	40	10	30	40	30	10	40	100
4CE4-25	Concrete Lab	30	10	40	10	30	40	30	10	40	100
4CS4-21	Microprocessor & Interfaces Lab	30	10	40	10	30	40	30	10	40	100
4CS4-22	Database Management	30	10	40	10	30	40	30	10	40	100
4CS4-23	System Lab Network Programming										
	Lab Linux Shell	30	10	40	10	30	40	30	10	40	100
4CS4-24	Programming Lab	30	10	40	10	30	40	30	10	40	100
4CS4-25	Java Lab Analog and Digital	30	10	40	10	30	40	30	10	40	100
4EC4-21	Communication Lab	30	10	40	10	30	40	30	10	40	100
4EC4-22	Analog Circuits Lab	30	10	40	10	30	40	30	10	40	100
4EC4-23	Microcontrollers Lab Electronics	30	10	40	10	30	40	30	10	40	100
4EC4-24	Measurement & Instrumentation	30	10	40	10	30	40	30	10	40	100
4EE4-21	Electrical Machine - II Lab	30	10	40	10	30	40	30	10	40	100
4EE4-22	Power Electronics Lab	30	10	40	10	30	40	30	10	40	100
4EE4-23	Digital Electronics Lab	30	10	40	10	30	40	30	10	40	100
4EE3-24	Measurement Lab	30	10	40	10	30	40	30	10	40	100
4IT4-21	Linux Shell Programming Lab	30	10	40	10	30	40	30	10	40	100
4IT4-22	Database Management System Lab	30	10	40	10	30	40	30	10	40	100
4IT4-23	Network Programming Lab	30	10	40	10	30	40	30	10	40	100
4IT4-24	Java Lab	30	10	40	10	30	40	30	10	40	100
4IT4-25	₩eb Technology Lab	30	10	40	10	30	40	30	10	40	100
4ME3-21	Digital Electronics lab	30	10	40	10	30	40	30	10	40	100
4ME4-22	Fluid Mechanics lab	30	10	40	10	30	40	30	10	40	100
4ME4-23	Production practice lab	30	10	40	10	30	40	30	10	40	100
4ME4-24	Theory of machines Lab Environmental	30	10	40	10	30	40	30	10	40	100
6CE4-21	Engineering Design and Lab	22	8	30	8	22	30	22	8	30	75
6CE4-22	Steel Structure Design	22	8	30	8	22	30	22	8	30	75
6CE4-23	Quantity Surveying and	15	5	20	5	15	20	15	5	20	50
6CE4-24	Valuation Water and Earth Retaining Structures	15	5	20	5	15	20	15	5	20	50
0054.05	Design	ar.	-		-	ar.		ar.	-	- 00	
6CE4-25	Foundation Design Digital Image	15	5	20	5	15	20	15	5	20	50
6CS4-21	Processing Lab	22	8	30	8	22	30	22	8	30	75
6CS4-22	Machine Learning Lab	22	8	30	8	22	30	22	8	30	75
6CS4-23	Python Lab Mobile Application	22	8	30	8	22	30	22	8	30	75
6CS4-24	Development Lab	22	8	30	8	22	30	22	8	30	75
6EC 4-21	Computer Network Lab Antenna and wave	30	10	40	10	30	40	30	10	40	100
6EC 4-22	propagation Lab	15	5	20	5	15	20	15	5	20	50
6EC 4-23	Electronics Design Lab	30	10	40	10	30	40	30	10	40	100
6EC 4-24	Power Electronics Lab	15	5	20	5	15	20	15	5	20	Dr. I
6EE4-21	Power System - II Lab	30	10	40	10	30	40	30	10	40	100
6EE4-22	Electric Drives Lab Power System	30	10	40	10	30	40	30 1E	10	20 🔑	cornin
6EE4-23	Protection Lab Modelling and	15	5	20	5	15	20	15	5	20	131-0,
6EE4-24	simulation lab	15	5	20	5	15	20	15	5	20	50

20 Dr. Mahesh Bundele
40 100 Director
20 Poorning College of Engineering
20 50 Stapura, JAIPUR

9 Department Load Allocation

POORNIMA COLLEGE OF ENGINEERING, JAIPUR DEPARTMENT OF INFORMATION TECHNOLOGY

FACULTYWISE LOAD ALLOTMENT - SESSION 2020-21 (EVEN SEMESTER)

S. NO	FACULTY NAME	CODE	SUBJECT	L	T	P	LOAD	FACUL TY
								LOAD
1	Amol Saxena	6IT4-05	Artificial Intelligence	3	0	0	3	13
		4IT4-21	Linux Shell Programming Lab	0	0	6	6	1
		8IT7-50	Project	0	0	4	4	
2	Shazia Haque	6IT4-03	Information Security System	3	0	0	3	12
		4IT4-05	Database Management System	3	0	0	3	
		4IT4-22	Database Management System Lab	0	0	6	6	
3	Shirish Nagar	6IT4-02	Machine Learning	3	0	0	3	13
		6IT4-22	Machine Learning Lab	0	0	6	6	1
		8IT7-50	Project	0	0	4	4	
4	Saurabh Anand	6IT3-01	Digital Image Processing	3	0	0	3	12
7	Sauton Anand	6IT4-21	Digital Image Processing Lab	0	0	6	6	12
		4IT3-04	Principle of Communication	3	0	0	3	-
5	Sita Gupta	6IT4-24	Mobile Application Development Lab	0	0	6	6	15
,	Sita Gupta	8IT4-01	Internet of Things	3	0	0	3	13
		8IT4-01	Internet of Things Lab	0	0	6	6	-
		0114-21	Internet of Timigs Lab			•	-	
6	Dr.Gajendra	4IT4-23	Network Programming Lab	0	0	6	6	11
	Singh Rajawat	6IT5-13	Ecommerce & ERP	3	0	0	3	1
		8IT7-50	Project	0	0	2	2	
7	Praveen Kr.	6IT4-06	Distributed System	3	0	0	3	
	Yadav	8IT4-22	Software Testing and Validation Lab	0	0	6	6	9
	C1	4IT4 05	W-1, T-1,-1,-1	0	0	6		
	Sandeep	4IT4-25	Web Technology Lab				6	
8	Bhargava	6IT5-12	Cloud Computing	3	U	0	3	9
	D 37' 1	4IT4-07	Data Communication and Computer	4	0	0	4	
	Dr. Nitesh		Networks				<u> </u>	10
9	Kaushik	4IT4-24	Java Lab	0	0	6	6	
	,							
		6IT4-04	Computer Architecture and	4	0	0	4	
10	Cash-1Mash-		Organization					14
10	Snehal Moghe	4IT4-06	Theory of Computation	4		0	4	14
		6IT4-23	Python Lab	0	0	6	6	
	Dr. Randhir Singh	4IT2-01	Discrete Mathematics Structure	4	0		20	1)-(
	Baghel							ahes
11	D: D	ATTEM OF	Im 1 1 1 2 1 2 1 2 1	_				
11 12 13		4IT1-02 OE	Technical Communication Open Elective - II	3	0	0	2	Direc College IICO Ins Lapura,

10 Time Table

10.1 Orientation Time Table: N/A

10.2 Academic Time Table

POORNIMA COLLEGE OF ENGINEERING DEPARTMENT OF INFORMATION TECHNOLOGY **TIME TABLE (EVEN SEMESTER 2021-22)** w.e.f 27-01-2022 II Year (IV Semester) Tutor: Ms. Shazia Haque Room No: AG-01 ΙV v Ш 11:30 ۷I Day/ 8:30-9:30 9:30-10:30 10:30-11:30 to 12:10 12:10-1:10 1:10-2:10 2:10-3:10 3:10-4:00 Period 4IT3-04 4IT2-01 4IT1-02 4IT4-05 4IT4-06 4IT4-07 MON POC (SA) DMS (RS) TC (PD) DBMS (SH) TOC (SM) DCCN (NK) NSP /Library AG-01 AG-01 AG-01 AG-01 AG-01 AG-01 4IT4-24 JAVA Lab (A1) NK AG-25A 4IT4-22 DBMS Lab (A1) SH AG-25A 4IT4-07 4IT4-06 TUE 41T4-23 NP Lab (A2) GS AG-25C DCCN (NK) TOC (SM) 4IT4-21 LSP Lab (A2) AS AG-25B NSP /Library 4IT4-21 LSP Lab (A3) AS AG-25B 4IT4-25 WT Lab (A3) SB AG-25C AG-01 AG-01 4IT1-02 4IT4-05 4IT3-04 4IT2-01 4IT4-07 4IT4-06 WED TC (PD) NSP /Library DBMS (SH) POC (SA) DMS (RS) DCCN (NK) TOC (SM) AG-01 AG-01 AG-01 AG-01 AG-01 4IT4-25 WT Lab (A1)SB AG-25C 4IT4-07 4IT2-01 4IT3-04 4IT4-05 THU 4IT4-24 JAVA Lab (A2) NK AG-25B NSP /Library POC (SA) DCCN (NK) DMS (RS) DBMS (SH) 4IT4-22 DBMS Lab (A3) SH AG-25A AG-01 AG-01 AG-01 AG-01 4IT4-21 LSP Lab (A1) AS AG-25B 4IT4-23 NP Lab (A1) GS AG-25B 4IT4-23 NP Lab (A1) GS AG-25B 4IT2-01 4IT4-06 NSP /Library FRI 4IT4-22 DBMS Lab (A2) SH AG-25A 4IT4-25 WT Lab (A2)SB AG-25C 4IT4-25 WT Lab (A2) SB AG-25C DMS (RS) TOC (SM) 4IT4-23 NP Lab (A3) GS AG-25C 4IT4-24 JAVA Lab (A3)NK AG-25 4IT4-24 JAVA Lab (A3)NK AG-25 AG-01 AG-01 SAT i3 Day Activities i3 Day Activities

4IT2-01: Discrete Mathematics Structure, 4IT1-02:Technical Communication, 4IT3-04: Principle of Communication, 4IT4-05: Database Management System,

4IT4-06:Theory of Computation, 4IT4-07: Data Communication and Computer Networks, 4IT4-21: Linux Shell Programming Lab,

4IT4-22:Database Management System Lab,4IT4-23 Network Programming Lab,4IT4-24 Java Lab, 4IT4-25 Web Technology Lab,4ITNS-Non Syllabus Project

AS:Amol Sexena,RS: Dr. Randhir Singh Baghel, GS: Dr.Gajendra Singh Rajawat, SH: Shazia Haque, SM:Snehal Moghe,PY: Praveen Kr. Yadav,SB:Sandeep Bhargava,SA: Saurabh Anand. NK: Dr. Nitesh Kaushik PD: Prince Dawar

Seeta Gupta	Dr.Gajendra S.Rajawat	Mr.Pankaj Dhemla	Dr. Mahesh M. Bundele	
TT Coordinator, IT	Head of Department, IT	Vice Principal, PCE	Director, PCE	

Stapura, JAIPUR

POORNIMA COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

TIME TABLE (EVEN SEMESTER 2021-22)

III Year (VI Semester) w.e.f 20-01-2022 Tutor: Sandeep Bhargava Room No: AG-03 Day/ v VII Ш 11:30 Period to 12:10 1:10-2:10 8:30-9:30 9:30-10:30 10:30-11:30 12:10-1:10 2:10-3:10 3:10-4:00 6IT4-02 6IT4-22 ML LAB (A1) SN AG-25B 6IT5-12 CC (SB) AG-02 6IT4-05 6IT4-03 MON NSP /Library 6IT4-21 DIP LAB (A2) SA AG-25A ML (SN) 6IT5-13 EC & ERP (GS) AI (AS) ISS (SH) AG-03 AG-03 6IT4-23 PY LAB (A3) SM AG-25C AG-03 AG-03 6IT3-01 6IT4-04 6IT4-03 6IT5-12 CC (SB) AG-02 6IT4-02 6IT4-06 TUE NSP /Library DIP (SA) CAO SM) DS (PY) ISS (SH) 6IT5-13 EC & ERP (GS) ML (SN) AG-03 AG-03 AG-03 AG-03 AG-03 AG-03 6IT4-23 PY LAB (A1) SM AG-25A 6IT4-04 6IT5-12 CC (SB) AG-02 6IT4-03 6IT4-06 61T4-22 ML LAB (A2) SN AG-25B WED CAO (SM) ISS (SH) DS (PY) NSP /Library 6IT5-13 EC & ERP (GS) AG-03 61T4-24 MAD LAB (A3) SG AG-25C AG-03 AG-03 AG-03 6IT4-04 6IT4-06 6IT4-05 6IT3-01 6IT4-21 DIP LAB (A1)SA AG-25A THU NSP /Library DS (PY) AI (AS) DIP (SA) CAO (SM) 61T4-24 MAD LAB (A2) SG AG-25C AG-03 AG-03 AG-03 AG-03 61T4-22 ML LAB (A3) SN AG-25B 6IT4-05 6IT4-24 MAD LAB (A1) SG AG-25C 6IT4-02 6IT3-01 6IT4-04 FRI NSP /Library 61T4-23 PY LAB (A2) SM AG-25B ML (SN) DIP (SA) CAO (SM) AI (AS) AG-03 AG-03 AG-03 AG-03 6IT4-21 DIP LAB (A3) SA AG-25A SAT i3 Day Activities i3 Day Activities

6IT3-01: Digital Image Processing,6IT4-02: Machine Learning, 6IT4-03: Information Security System, 6IT4-04: Computer Architecture and Organization, 6IT4-05: Artificial Intelligence, 6IT4-06: Distributed System, 6IT5-12: Cloud Computing, 6IT4-21: Digital Image Processing Lab, 6IT4-22: Machine Learning Lab, 6IT4-23: Python Lab, 6IT4-24: Mobile Application Development Lab, 6NSPIT: Non Syllabus Project

AS: Amol Saxena, GS: Dr. Gajendra Singh Rajawat, SG: Seeta Gupta, SH: Shazia Haque, SN: Shirish Nagar, SM: Snehal Moghe, PY: Praveen Kr. Yadav, SB: Sandeep Pharmaya CArCaurabh Ana

Poornima College of Engineering 131-6, FUICO Institutional Area Stapura, JAIPUR

		F	OORNIMA COL	LEGE O	F ENGIN	EERING		
			DEPARTMENT OF I	NFORMAT	ION TECHNO	DLOGY		
			TIME TABLE (EVEN SEMES	TER 2021-22)			
			IV Ye	ear (VIII Sem	ester)			20-01-2022
utor: Ms.	Seeta Gupta						Room No:	AG-02
Day/	I	II	III	11:30	IV	V	VI	VII
Period	8:30-9:30	9:30-10:30	10:30-11:30	to 12:10	12:10-1:10	1:10-2:10	2:10-3:10	3:10-4:00
	8ITOE	8IT4-01	8IT7-50		8IT4-	21 IoT LAB (A2) S	G, AG-25C	
MON	OE	IoT (SG)	PROJECT LAB (GS, AS)		8IT4-	22 STV LAB (A1) P	Y, AG-25B	
		AG-02	AG-25(A,B)]				
	8ITOE	8IT4-01	8IT7-50		8IT	7-50	8IT4-01	
TUE	OE	IoT (SG)	PROJECT LAB (SN, AS)		PROJECT L	AB (SN, GS)	IoT (SG)	
		AG-02	AG-25(A,B)]	AG-2	5(A,B)	AG-02	
	8ITOE		8IT7-50	エ	8IT4-	21 IoT LAB (A1) SO	G, AG-25C	
WED	OE	PROJ	ECT_LAB (SN,AS)		8IT4-	22 STV LAB (A2) P	Y, AG-25B	
			AG-25 (A,B)					
THU				LUNC				
FRI								
SAT								
IT4-01: Int	ernet of Things,8	IT4-21: Internet of	Things Lab, 81T4-22: Software T	esting and Vali	idation Lab, , 8IT7	-50: Project Lab, OE	: Open Elective	
AS: Amol	Saxena , GS: Gaj	endra Singh Raja	wat, SN: Shirish Nagar, SG:	Seeta Gupta,	, PY: Praveen Kr.	Yadav		
	-		-					
Seet	ta Gupta	Dr.Ga	jendra S.Rajawat	Mr. Pan	kaj Dhemla		Dr. Mahesh	M. Bundele
TT Coo	rdinator, IT	Head	of Department, IT	Vice Pri	ncipal, PCE		Direct	or, PCE

11 Course Outcome Attainment Process:

11.1 Course Outcome Attainment Process

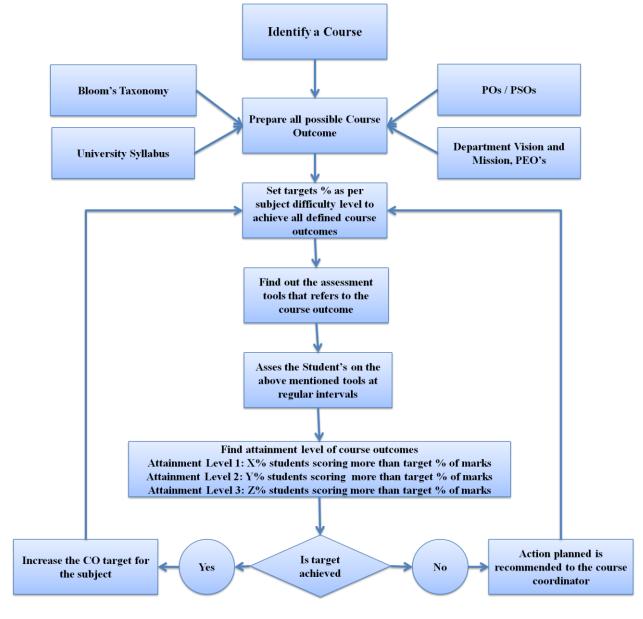


Figure. Course Outcome Attainment Process

Dr. Mahesh Bundele
25 Birector
cornima College of Engineering
131-6, RIICO Institutional Area
Stlapura, JAIPUR

11.2 List of CO & CO mapping with PO

	1		1-1	0 ·· · · · · ·			1												
SN	Cod				P O1	P O2	P O3	P O4	P O5	P 06	P O7	P 08	P 09	P O1 0	P O1 1	P O1 2	PS O1	PS O2	PS O3
0	e	Subject	CO	Course Outcomes															
11	2F Y2- 01	Engineering Mathematics-II	CO1	Students will be able to apply basic concepts matrix to find rank of matrix by reducing into normal and echelon form, to solve linear system of equations, to determine linear dependency or independency, to find eigen values and eigen vectors for a linear transformation which is very useful in various field of technology.	1	-	-	-	-	-	•	-	-	-	-	-	-	•	-
			CO2	Students will be able to apply the knowledge of ordinary differential equation and various methods of solution of ODE to solve complex engineering problems.	2	-	-	-	-	-	•	-	-	-	-	-	-	-	-
			CO3	The students will be able to identify a given differential equation and apply an appropriate analytical technique to find solution of first order and higher order differential equations.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO4	Students will be able to effectively analyze and apply appropriate mathematical technique to solve linear and non-linear partial differential equations.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO5	Students will be able to classify higher order partial differential equations and analyze a wide variety of time dependent phenomena of real world including heat conduction, wave equation particle diffusion.	-	2	-	-	-	-		-	-	-	-	-	-	-	-
					2.2 5	2.0	-	-	-	-	•	-	-	-	-	-	-	-	-
12	2F Y2-	Engineering Physics	CO1	Describe the concepts of Wave and Quantum mechanics, Laser and Fiber optics, electromagnetic theory and	1	-	-	-	-	-		-	-	-	-	-	-	-	-
	02		CO2	Explain the different applications of Laser and optical fibers in communication, engineering, medicine and	2	-	-	-	-	-		-	-	-	-	-	-	•	-
			CO3	Find energy states in 1-D and 3-D box with the application of quantum mechanics.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO4	Analyze the crystal structure through X-ray Diffraction & wavelength of light through Newton's ring experiment and	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
					2.0	2.0	-	-	-	-	•	-	-	-	-	-	-	-	-
13	2F Y1- 05	Human Values	CO1	Relate sustained happiness through identifying the essentials of human values and skills	-	-	-	-	-	-	-	2	-	-	-	-	-	٠	-
			CO2	Find the happiness and human values in terms of personal and social life to create harmony in them	-	-	-	-	-	2	-	-	-	-	10				-

		T.		T												_			
			CO3	Use and understand practically the importance of trust, mutually satisfaction and human relationship	-	-	-	-	-	-	-	-	-	-	•	2	-	-	-
			CO4	Identify the orders of nature for the holistic perception of harmony for human existence	-	-	-	-	-	-	-	2	-	-		-	-	-	-
			CO5	Implement professional ethics and natural acceptance of human values in his/her life	-	-	-	-	-	-	-	3	-	-		-		-	-
					-	-	-	-	-	2.0	-	2.3	•	-	•	2.0	•	-	-
14	2F Y3- 06	Programming for Problem Solving	CO1	Describe an algorithm using flowchart/pseudo code for a given problem and fundamental of computer system	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO2	Write a c program to compare various Conditional, Iterative statements using arrays, string, pointers, file structure and classify different Representation of numbers	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO3	Examine the concept of Operators, Pointer, Array, String, structure, union using modularization to solve complex problems using C Programming	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO4	Assess the User Defined functions, Memory management and File concepts to solve real time problems using C Programming	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
					2.0	2.0	-	-	-	-	-	-		-		•		-	
15	2F Y3- 09	Basic Civil Engineering	CO1	Describe basics of surveying, types of building, mode of transportation and different causes of air and noise pollution	1	-	-	-	-	-	-	-		-		•		-	1
			CO2	Explain solid waste management, building by law, chemical cycle, biodiversity, causes of road accident, sanitary landfill and on-site sanitation	2	-	-	-	-	-	-	-	-	-		-		-	•
			CO3	Illustrate method of levelling, road safety measures, building component, hydrological cycle and environ different types of foundation, treatment and disposal of waste water, chemical cycle, traffic sign and symbol and rain water harvestingmental act	3	-	-	-	-	-	-	-	-	-	•	-	•	-	•
			CO4	Compute bearings and elevations of respective points on the ground, various road traffic sign, food chain and contour maps.	-	2	-	-	-	-	-	-	-	-		-		-	
															/~			-	

					2.0	2.0	-	-	-	-	-	-	-	•	•	-	-	•	1.0
16	2F Y2- 20	Engineering Physics Lab	CO1	Find out the characteristics of optical fiber and laser	1	-	-	-	-	-	-	-	-	•	•	-	-	-	-
			CO2	Determine wavelength of different spectral lines and height of an object by sextant	2	-	-	-	-	-	-	-	-		1	-	-	-	-
			CO3	Analyze the band gap of semiconductor and type of semiconductor through hall effect	-	1	-	-	-	-	-	-	-		1	-	-	-	-
			CO4	Students will show an ability to communicate effectively and work as a team member ethically	-	-	-	-	-	-	-	2	3	2	•	-	-	-	-
					1.5	1.0	-	-	-	-	-	2.0	3.0	2.0	•		-	•	-
17	2F Y1- 23	Human Values Activities and Sports	CO1	Recall the natural and social issues and their remedies.	-	-	-	-	-	-	-	1	-	,		-	-	-	-
			CO2	Describe the nature of human values and the impact of external factors over it.	-	-	-	-	-	-	2	-	-	-	•	-	-	-	-
			CO3	Validate through actions the significance of trust, respect and harmony with self and surroundings.	-	-	-	-	-	-	-	-	2	-	•	-	-	-	-
			CO4	Outline the relation of human with nature and other factors in terms of human existence	-	-	-	-	-	-	2	-	-			-	-	-	-
			CO5	Associate the knowledge of self and society with clear understanding of social issues and the human beings.	-	-	-	-	-	2	-	-	-	-	1	•	-	•	-
					-	-	-	-	-	2.0	2.0	1.0	2.0			•	•		-
18	2F Y3- 24	Computer Programming Lab	CO1	Relate the fundamental of C Programming as variable, operators and taxonomy to write a basic C Program	1	-	-	-	-	-	-	-	-	-	•	-	-	-	-
			CO2	Write programs that perform operations using condition control statements and loop control statements, single and multi-dimensional arrays along with specific program of matrix multiplication.(Examine)	2	-	-	-	-	-	-	-	-	-	/~	0	-		-

			CO3	Use C programs to implement operations related to Array, Macros and inline functions, Dynamic memory allocations, concept of Structure, Unions and Pointers	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO4	Students will show an ability to communicate effectively and work ethically	-	-	-	-	-	-	-	2	-	2	-	-	-	-	-
					2	-	-	-	-	-	-	2	-	2	-	•	-	•	-
19	2F Y3-	Basic Civil Engineering Lab	CO1	Describe various sanitary fittings and water supply fittings	1	-	-	-	-	-	-	-	-	-	-	•	-	-	-
	27		CO2	Examine pH, Turbidity, Hardness and Total solids of given water sample	2	-	-	-	-	-	-	-	-	-	-	•	-	•	-
			CO3	Use of EDM and Total Station in the field	3	-	-	-	-	-	-	-	-	-	-	•	-	-	-
			CO4	Investigate the linear and angular measurements of the points on the ground and levelling	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO5	Students will show an ability to communicate effectively and work as a team member ethically	-	-	-	-	-	-	-	2	3	2	-	-	-	-	-
					2.0	1.0	-	-	-	-	-	2.0	3.0	2.0	-		-		•
20	2F Y3-	Computer Aided Machine Drawing	CO1	Describe orthographic projections and basic Geometrical Concept	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-
	29		CO2	Analyze Sectional Views of different mechanical Components and assembly drawing	-	1	-	-	-	-	-	-	-	-	-	•	2	•	-
			CO3	Draft a engineering product using CAD software	-	-	-	-	2	-	-	-	-	-	-	•	2	•	1
			CO4	Students will show an ability to work as a team member ethically	-	-	-	-	-	-	-	2	3	-	-	•	-	•	-
					2	1	-	-	2	-		2	3	•	•		1.6 7		1
	4I T2 - 01	Discrete Mathematics Structure	CO1	Demonstrate knowledge of how Sets, Relations, functions, Permutations and combinations and Graph are defined.	-	-	3	-	-	-	-	-	2	2	-	-	3	-	-

		CO2	Apply the rules of inference, methods of proof including direct and indirect proof forms, proof by contradiction, mathematical induction, Pigeonhole Principles, logic	-	3	-	-	2	-	-	-	2	2	-	2	-	3	-
		CO3	Analyze truth tables, tautologies, normal forms in propositional calculus .	-	-	3	-	2	-	-	-	2	2	-	2	-	-	3
		CO4	Explain finite-state machines to recognize certain sets and graph theory to model relationships and solve problems.	-	3	2	-	2	-	-	-	2	2	-	2	-	3	2
		CO5	Identify recurrence relations, generating functions, concepts and properties of algebraic structures such as groups, rings and fields.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	3. 0 0	2. 6 7	-	2. 0 0	-	-	-	2. 0 0	2. 0 0	-	2. 0 0	3. 0 0	3. 0 0	2. 5 0
4I T1 - 02	Technical Communicati on	CO1	Describe the objective, scope and outcome of the course.	3	-	-	-	-	-	-	-	-	-	-	-	3	-	-
		CO2	Discuss and understand the process of technical communication in terms of LSRW.	3	2	2	2	-	-	-	-	-	-	-	1	3	1	1
		CO3	Explain the concept of Technical Materials/Texts along with the understanding of technical documents.	3	3	2	2	-	-	-	-	-	-	-	1	3	2	1
		CO4	Write and prepare various professional correspondence documents along with the knowledge of basics of grammar	3	3	2	2	-	-	-	-	-	-	-	1	3	2	1
		CO5	Restate and outline the basic concepts of Technical Reports, articles and their formats.	3	2	2	2	-	-	-	-	-	-	-	1	3	1	1

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				3. 0 0	2. 5 0	2. 0 0	2. 0 0	-	-	-	-	-	-	-	1. 0 0	3. 0 0	1. 5 0	1. 0 0
4I T3 - 04	Principle of Communicati on	CO1	Understand different modulation and demodulation techniques used in analog communication	1	-	-	-	-	-	-	-	-	-	-	3	-	2	-
		CO2	Identify and solve basic communication problems	-	-	-	-	2	-	-	-	2	3	-	3	-	-	2
		CO3	Analyze transmitter and receiver circuits	-	-	-	-	-	-	-	-	-	3	-	3	2	-	-
		CO4	Compare and contrast design issues, advantages, disadvantages and limitations of analog and digital communication systems	-	-	-	-	2	-	-	-	2	3	-	3	-	2	-
				1. 0 0	-	-	-	2. 0 0	-	-	-	2. 0 0	3. 0 0	-	3. 0 0	2. 0 0	2. 0 0	2. 0 0
4I T4 - 05	Database Management System	CO1	Explain fundamental concepts of a database management system.	-	-	-	-	2	-	-	-	-	3	-	3	-	3	-
		CO2	Identify entities, attributes and their relationship and Model data requirements using conceptual modeling tools like ER diagrams and design database schemas based	3	3	3	-	-	-	-	-	-	3	-	3	3	-	3
		CO3	Formulate the SQL queries for any types of DBMS problems.	3	3	3	-	-	-	-	-	-	-	-	2	3	2	2
		CO4	Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database.	3	3	-	-	-	-	-	-	-	-	-	3	3	2	3

		CO5	Determine different serializability and Formulate concurrent schedule and Recovery of database using available techniques.	3	3	3	-	-	-	-	-	-	-	-	-	2	2	3
				3. 0 0	3. 0 0	3. 0 0	-	2. 0 0	-	-	-	-	3. 0 0	-	2. 7 5	2. 7 5	2. 2 5	2. 7 5
4I T4 - 06	Theory of Computation	CO1	Classify and compare the Automata, Grammars, Languages and Computational problems based on their properties and hierarchy	3	-	-	-	-	-	-	-	-	-	-	-	-	3	-
		CO2	Apply Pumping lemmas of respective languages to determine the grammar and solve problems related to Normal Forms, transformation of automata, and parsing	-	3	-	-	-	-	-	-	-	-	-	-	3	-	3
		CO3	Analyze the working of Automata and Turing Machines	-	3	-	3	-	-	-	-	-	-	-	-	3	2	2
		CO4	Construct the required automata based on the given criteria of string acceptability and/or state transformations	-	3	-	-	-	-	-	-	-	-	-	-	3	2	3
				3. 0 0	3. 0 0	-	3. 0 0	-	-	-	-	-	-	-	-	3. 0 0	2. 3 3	2. 6 7
4I T4 - 07	Data Communicati on and Computer	CO1	Acquire knowledge about Network hardware and network software along with architectures of networking	3	-	-	-	-	-	-	-	-	-	-	-	2	2	3
		CO2	Analyse the concept of error detection and correction in data link layer using different methods.	3	-	-	-	-	-	-	-	-	-	-	-	2	2	3
		CO3	Apply the different routing methods and congestion control mechanism in networking.	-	3	-	-	-	-	-	-	-	-	-	-	3	2	2

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		CO4	Design network topologies thereby handling design issues, application layer protocol along with network.	-	-	3	-	-	-	-	-	-	-	-	-	2	2	3
				3. 0 0	3. 0 0	3. 0 0	-	-	-	-	-	-	-	-	-	2. 2 5	2. 0 0	2. 7 5
4I T4 - 21	Linux Shell Programming Lab	CO1	Apply the basic commands of linux operating system related to file and directory manipulation	-	-	3	-	-	-	-	-	-	-	-	-	2	3	2
		CO2	Demonstrate the use of commands related to inode, I/O Redirection and piping, process control commands and mails	3	-	-	-	-	-	-	-	-	-	-	-	3	-	-
		CO3	Create Shell scripts with implementation of control statements, looping, cases, and arrays to address corresponding problem statements	-	3	-	-	-	-	-	-	-	-	-	2	-	3	-
		CO4	Create shell scripts for developing specific applications for geometrical shape creation, calculators and other problem statements	-	3	2	-	-	-	-	-	-	-	-	2	-	-	3
				3. 0 0	3. 0 0	2. 5 0	-	-	-	-	-	-	-	-	2. 0 0	2. 5 0	3. 0 0	2. 5 0
4I T4 - 22	Database Management System Lab	CO1	Analyse data requirements of an application and design the database using ERD as a tool.	-	3	2	-	-	-	-	-	-	-	-	-	-	3	2
		CO2	Retrieve data from the database by writing appropriate query in SQL using sql tool	-	-	2	-	3	2	-	-	-	-	-	-	2	-	3
		CO3	Apply the required constraints on various tables like Primary Key, Referential Integrity Constraints, check constraint etc.	-	2	-	2	3	2	-	-	-	-	-	-	-	2	-

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		CO4	Implement triggers for various DML operations.	-	-	2	2	3	-	-	-	-	-	-	-	2	-	3
				-	2. 5 0	2. 0 0	2. 0 0	3. 0 0	2. 0 0	-	-	-	-	-	-	2. 0 0	2. 5 0	2. 6 7
4I T4 - 23	Network Programming Lab	CO1	Analyse the network devices to interface a LAN and simulate.	-	2	-	3	2	3	-	-	-	-	-	-	-	2	3
		CO2	Develop LAN system to communicate with router and servers.	-	-	-	3	-	-	-	-	-	-	-	-	3	1	-
		CO3	Implement algorithms for identifying errors in communication networks.	-	-	-	-	-	-	-	-	-	-	-	2	2	-	3
		CO4	Design a client server channel establishment for message passing using communication protocol.	-	-	3	-	-	-	-	-	-	-	-	2	2	2	3
				-	2. 0 0	3. 0 0	3. 0 0	2. 0 0	3. 0 0	-	-	-	-	-	2. 0 0	2. 3 3	1. 6 7	3. 0 0
4I T4 - 24	Java Lab	CO1	State basic Object Oriented features of Java.	-	-	2	2	-	-	-	-	-	-	-	1	2	2	3
		CO2	Develop applications using Packages and Interfaces.	-	-	3	-	-	-	-	-	2	2	-	-	3	-	-
		CO3	Implement Process String objects through predefined methods of String and StringBuffer classes.	-	3	-	-	2	-	-	-	2	2	-	2	-	3	-

		CO4	Design applications that can handle Exceptions and demonstrate using Multi- threading and Applets.	-	-	3	-	2	-	-	-	2	2	-	2	-	-	3
				-	3. 0 0	2. 6 7	2. 0 0	2. 0 0	-	-	-	2. 0 0	2. 0 0	-	1. 6 7	2. 5 0	2. 5 0	3. 0 0
4I T4 - 25	Web Technology Lab	CO1	Use different functions, variables, syntax and different technical tools for building any application	-	3	2	-	2	-	-	-	2	2	-	-	-	3	2
-		CO2	Design and implement a static web designing using HTML and CSS	-	-	3	2	-	-	-	-	-	-	-	-	2	1	-
		CO3	Apply the knowledge of web technology in developing web applications.	-	3	2	2	-	-	-	-	-	-	-	-	3	1	1
		CO4	Evaluate different solutions in field of web application development.	-	3	2	2	-	-	-	-	-	-	-	-	3	-	1
		CO5	Implement small to large scale project to provide live solution in web application development fields.	-	-	3	2	-	-	-	-	-	-	-	-	3	-	1
				-	3. 0 0	2. 4 0	2. 0 0	2. 0 0	-	-	-	2. 0 0	2. 0 0	-		2. 7 5	1. 6 7	1. 2 5
6I T3 - 01	Digital Image Processing	CO1	Explain the fundamental concepts of a digital image processing and Image Enhancement.	3	3	2	1	-	-	-	-	-	-	-	2	-	-	-
		CO2	Understand the need for image transforms and their properties.	2	3	2	1	-	-	-	-	-	-	-	2	2	2	2

		CO3	Compare spatial and frequency domain filtering techniques of image compression.	2	3	3	2	2	-	-	-	-	-	-	2	2	3	2
		CO4	Analyze image segmentation and representation techniques.	2	2	3	3	2	-	-	-	-	-	-	2	2	3	2
				2. 2 5	2. 7 5	2. 5 0	1. 7 5	2. 0 0	-	-	-	-	-	-	2. 0 0	2. 0 0	2. 6 7	2. 0 0
6I T4 - 02	Machine Learning	CO1	Differentiate various machine learning approaches, and to interpret the concepts of supervised, unsupervised and reinforcement learning.	-	3	3	-	-	-	-	-	-	-	-	1	2	2	2
		CO2	Illustrate the working of classifier models like SVM, Neural Networks and etc and identify classifier model for typical machine learning applications.	-	3	3	2	-	-	-	-	-	-	-	ı	2	3	2
		CO3	Apply theoretical foundations of Machine learning algorithms to solve the different real word applications.	-	3	3	2	-	-	-	-	-	-	-	-	3	3	-
		CO4	Design solution for different application using Machine learning algorithms and identify its applicability in real life problems.	-	3	3	3	-	-	-	-	-	-	-	-	3	2	2
				-	3. 0 0	3. 0 0	2. 3 3	-	-	-	-	-	-	-		2. 5 0	2. 5 0	2. 0 0
6I T4 - 03	Information Security System	CO1	Identify and classify system security threats and attacks with their effective counter measures	-	-	3	-	-	-	-	1	-	-	-	2	2	2	2
		CO2	Design and understand the structure and fucnctions of different encryption algorithms	-	3	2	-	-	-	-	1	-	-	-	3	2	3	2

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		CO3	Apply and analyze the basic Cryptographic algorithm for security, including substitution, transposition, DES, AES, RSA	-	-	3	-	-	-	-	-	-	-	-	3	3	3	-
		CO4	Review different message authentication techniques and ability to apply them in practical applications	-	2	3	-	-	-	-	-	-	-	-	2	3	2	2
		CO5	Analyze the working of security over different level of web architecture.	-	-	3	-	-	-	-	-	-	-	-	2	3	2	2
				-	2. 5 0	2. 8 0	-	-	-	-	1. 0 0	-	-	-	2. 4 0	2. 6 0	2. 4 0	2. 0 0
6I T4 - 04	Computer Architecture and Organization	CO1	Classify and compare microoperations, common bus construction approaches, control, addressing modes, programming methods, register and memory organizations	3	-	-	-	-	-	-	-	-	-	-	2	3	2	2
		CO2	Apply the concepts of Basic computer data types, number representation schemes, computer arithmetic algorithms, and programming approaches to implement	-	3	-	-	-	-	-	-	-	-	-	-	3	2	2
		CO3	Analyze and illustrate the architecture of RISC Systems, Pipelining and Vector Processing systems, Direct Memory Access, Input Output Processor and Multiprocessor	-	-	3	-	-	-	-	-	-	-	-	2	3	2	2
		CO4	Develop the assembly language programs using programming constructs, and construct interconnections for ALU and Control Unit components	-	-	3	-	-	-	-	-	-	-	-	2	2	3	2
				3. 0 0	3. 0 0	3. 0 0	-	-	-	-	-	-	-	-	2. 0 0	2. 7 5	2. 2 5	2. 0 0
6I T4 - 05	Artificial Intelligence	CO1	Explain basic understanding and various applications of AI techniques in intelligent agents, expert systems, game playing, understanding natural language, robotics etc.	3	-	-	-	-	-	-	-	-	-	-	_	-	-	3

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		CO2	Describe core concepts and algorithms of AI including searching, knowledge and reasoning, game playing, planning, various types of learning, natural language processing,	3	2	-	-	-	-	-	-	-	-	-	-	2	-	-
		CO3	Apply various principles and techniques like knowledge representation, reasoning, game playing, planning, learning, NLP etc to provide solutions for different task domains of	-	3	-	-	-	-	-	-	-	-	-	2	-	3	-
		CO4	Create solutions for AI based tasks by formalizing the problem as a state space, designing heuristics and selecting appropriate search and control techniques to solve them.	-	-	3	-	-	-	-	-	-	-	-	2	3	-	-
				3. 0 0	2. 5 0	3. 0 0	-	-	-	-	-	-	-	-	2. 0 0	2. 5 0	3. 0 0	3. 0 0
6I T4 - 06	Distributed System	CO1	Explain the distributed systems architecture.	-	2	1	-	-	1	-	-	-	-	-	-	2	-	-
		CO2	Outline the inter process communication in distributed systems.	-	2	2	1	-	-	-	-	-	-	-	-	-	2	-
		CO3	Apply the file accessing model and various services in distributed system.	-	2	2	1	-	-	1	-	-	-	-	2	-	2	-
		CO4	Demonstrate concurrency control and properties of transaction in Distributed systems.	-	3	3	2	2	1	1	-	2	1	-	1	-	-	2
		CO5	Evaluate resource and process management in distributed system.	-	2	2	-	-	1	1	-	-	-	-	-	2	-	-
				-	2. 2 0	2. 0 0	1. 3 3	2. 0 0	1. 0 0	1. 0 0	-	2. 0 0	1. 0 0	-	1. 5 0	2. 0 0	2. 0 0	2. 0 0

6I T5 - 12	Cloud Computing	CO1	Identify the basic concepts, key technologies and various dimensions related to cloud computing technology.	-	3	2	-	-	-	-	-	-	-	-	-	3	3	-
12		CO2	Review the architecture and infrastructure of cloud computing, including SaaS,PaaS, IaaS, public cloud, private cloud, hybrid cloud and examine various distributed programming	-	2	3	-	-	-	-	-	-	-	-	2	2	3	-
		CO3	Evaluate Virtualization Technology used in cloud computing. Data Centers and their applications in cloud computing.	-	3	2	-	-	-	-	-	-	-	-	2	2	3	-
		CO4	Classify the various security issues and privacy policies of the enterprise adapting cloud computing principles.	-	2	3	-	-	2	-	-	-	-	-	2	-	3	2
		CO5	Create a cloud services on AWS, GoogleApp Engine etc, Integrating with cloud applications.	-	3	2	-	-	2	-	-	-	-	-	3	-	3	2
				-	2. 6 0	2. 4 0	-	-	2. 0 0	-	-	-	-	-	2. 2 5	2. 3 3	3. 0 0	2. 0 0
6I T4 - 21	Digital Image Processing Lab	CO1	Understand the relevant aspects of digital image representation and conversions.	-	3	2	-	3	-	-	-	-	-	3	-	-	-	-
		CO2	ability to understand the concept of edge detectors and their operation in noisy images.	-	3	2	-	3	-	-	-	-	-	3	-	2	2	-
						1	i	1	1	<u> </u>	1	1		1	1	1	-	-
		CO3	Ability to perform spatial and frequency domain analysis	-	2	3	-	2	-	-	-	-	-	3	-	2	2	-

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		CO5	Implement the basic concept of intensities (gray levels) of an image and its histogram.	-	3	3	-	3	-	-	-	-	-	3	-	2	2	-
				-	2. 6 0	2. 4 0	-	2. 6 0	-	-	-	-	-	3. 0 0	-	2. 0 0	2. 0 0	-
6I T4 - 22	Machine Learning Lab	CO1	State the implementation procedures for the machine learning algorithms	-	2	3	-	-	-	-	-	-	-	-	2	3	2	2
		CO2	Design and demonstrate Python programs for various Learning algorithms.	-	3	3	2	-	-	-	-	-	-	-	3	3	2	2
		CO3	Apply appropriate data sets to the Machine Learning algorithms	-	3	3	3	-	-	-	-	-	-	-	3	3	2	3
		CO4	Identify and apply Machine Learning algorithms to solve real world problems	-	3	3	3	-	-	-	-	-	-	-	-	3	-	-
				-	2. 7 5	3. 0 0	2. 6 7	-	-	-	-	-	-	-	2. 6 7	3. 0 0	2. 0 0	2. 3 3
6I T4 - 23	Python Lab	CO1	Write, Test and Debug Python Programs	2	-	-	-	3	-	-	-	1	-	-	-	1	2	-
-		CO2	Implement Conditionals and Loops for Python Programs	2	-	-	-	3	-	-	-	1	-	-	-	-	2	-
		CO3	Use functions and represent Compound data using Lists, Tuples and Dictionaries	2	-	-	-	3	-	-	-	1	-	-	-	-	-	2

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			CO4	Read and write data from & to files in Python and string manipulation	-	-	2	-	3	-	-	-	3	-	3	-	-	3	3
					2. 0 0	-	2. 0 0	-	3. 0 0	-	-	-	1. 5 0	-	3. 0 0	-	1. 0 0	2. 3 3	2. 5 0
	6I T4 - 24	Mobile Application Development Lab	CO1	Describe the architecture of mobile application development platforms (like Android) and analyze the hardware resource requirements for small computing devices.	-	3	3	-	-	-	-	-	-	-	-	3	2	3	-
			CO2	Explain how to implement various mobile applications using emulators and deploy them to hand-held devices.	-	2	3	-	-	-	-	-	-	-	-	3	2	3	-
			CO3	Design interactive mobile applications using various high level and low level user interface components and event processing for different real world requirements.	-	3	3	-	-	-	-	-	2	-	-	3	-	3	3
			CO4	Make use of location identification using GPS in an application	-	3	3	-	-	-	-	-	2	-	-	3	2	3	3
					-	2. 7 5	3. 0 0	-	-	-	-	-	2. 0 0	-	-	3. 0 0	2. 0 0	3. 0 0	3. 0 0
76	8I T4 - 01	Internet of Things	CO1	Understand the definition and significance of the Internet of Things.	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO2	Discuss the architecture, operation benefits of an IoT solution.	-	2	3	-	-	-	-	-	-	-	-	-	-	-	3
			CO3	Examine the potential business opportunities that IoT can uncover.	-	2	2	-	-	-	-	-	-	-	-	-	1	2	2

			CO4	Explore the relationship between IoT and cloud computing.	1	2	3	-	-	-	-	-	-	-	-	-	2	-	-
			CO5	Identify how IoT differs from traditional data collection systems.	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-
					1. 5 0	2. 0 0	2. 6 7	-	-	-	-	-	-	-	-	-	2. 0 0	2. 0 0	2. 5 0
77	8E E6 - 60.	Energy Audit and Demand side management	CO1	Understand the current Energy Scenarios in India.	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-
			CO2	Illustrate the energy auditing of motors, lighting system and building, by appropriate analysis methods through survey instrumentations.	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO3	Understand the Electrical-Load Management and Demand side Management.	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-
			CO4	apply the Energy Conservation in transport, agriculture, household and commercial sectors.	3	2	2	1	-	-	-	-	-	-	-	-	-	-	-
					3. 0 0	2. 3 3	2. 0 0	1. 0 0	-	-	-	-	-	-	-	-	-	•	-
78	8E E6 - 60.	Soft Computing (OPEN ELECTIVE)	CO1	Learn about soft computing techniques and their applications.	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-
		,	CO2	Analyze various neural network architectures.	2	2	3	-	-	-	-	-	-	-	-	-	-	2	-
															1	1		-	\bigsqcup

			CO3	Define the fuzzy systems	-	-	3	-	-	-	-	-	-	-	-	-	1	1	-
			CO4	Understand the genetic algorithm concepts and their applications	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-
			CO5	Identify and select a suitable Soft Computing technology to solve the problem.	3	3	3	-	-	-	-	-	-	-	-	-	1	-	-
					2. 5 0	2. 2 5	3. 0 0	-	-	-	-	-	-	-	-	-	1. 0 0	1. 5 0	-
79	8 M E6	Operations Research (OPEN ELECTIVE)	CO1	Generate mathematical models of complex engineering problems	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO2	Analyse the various optimization techniques with the appropriate tools	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO3	Identify suitable optimization techniques to solve industrial and sociatal problems	-	3	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO4	Interpret the solution and apply the results to solve complex engineering problems	-	-	3	-	-	-	-	-	-	-	-	-	2	-	-
					2. 5 0	3. 0 0	3. 0 0	-	-	-	-	-	-	-	-	-	2. 0 0	-	-
80	8 M E6	Simulation Modeling and Analysis (OPEN	CO1	Define the simulation modeling and analyze the practical situations in organizations	3	-	-	-	-	-	-	-	-	-	-	-	1	-	1

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			CO2	Examine the random numbers and random variates approach in different applications	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO3	Investigate the sensitivity of simulation solutions for realistic problems	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO4	Interpret the model and apply the results to solve crtitical issues of a realististic problem	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
					2. 5 0	3. 0 0	-	-	-	-	-	-	-	-	-	-	1. 0 0	-	1. 0 0
81	8E C6 - 60.	Industrial and Biomedical applications of RF Energy	CO1	Understanding of basic concepts and Principles of EM wave, propagation reflection and transmission. [Understanding]	3	2	-	-	-	-	-	-	3	-	-	-	-	-	-
			CO2	Apply the knowledge for interest in complex dielectric constant, dipolar loss mechanism and design mechanism to understand the effect of rate rise of temperature [Applying	3	2	-	-	-	-	-	-	3	-	-	-	1	-	1
			CO3	Analyze the structure of RF heating in industrial application. [Analyzing]	3	2	3	-	-	-	-	-	3	-	-	-	1	-	-
			CO4	Design of Hazards and safety standards in various engineering problem. [Create & Design].	3	3	3	3	-	-	-	-	3	-	-	-	1	-	1
					3. 0 0	2. 2 5	3. 0 0	3. 0 0	-	-	-	-	3. 0 0	-	-	-	1. 0 0	-	1. 0 0
82	8C E6 - 60.	Composite Materials (OPEN ELECTIVE)	CO1	Explain the basics of composites, its structure and its properties	2	-	-	-	-	-	-	-	-	-	-	-	-	_	-

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			CO2	Compute the physio-mechanical properties of composites from tests	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1
			CO3	Assessment of engineering properties of composite materials	1	2	1	-	-	-	-	-	-	-	-	-	-	-	1
			CO4	Analyze the failure and maintenance of composite materials	1	-	1	1	1		-	-	-	-	-	-	1	-	1
					1. 5 0	1. 5 0	1. 0 0	1. 0 0	1. 0 0	-		-	•	-			1. 0 0		1. 0 0
83	8C E6 - 60.	Fire and Safety Engineering (OPEN ELECTIVE)	CO1	Explain the fundamentals of Fire Engineering	2	-	-	-	-	1	-	-	-	-	-	-	-	1	-
			CO2	Apply the learned principles in planning, designing and management of fire safe buildings	2	1	1	-	1	1	-	-	-	-	1	-	1	1	-
			CO3	Assess fire fighting installations, control technologies and hazardous materials	1	2	1	-	1	1	-	-	-	-	-	-	1	1	1
			CO4	Design of fire safety building for fire resitant construction by following safety legislation	1	-	1	1	1	1	-	1	-	-	-	-	-	1	1
					1. 5 0	1. 5 0	1. 0 0	1. 0 0	1. 0 0	1. 0 0	-	1. 0 0	-	-	1. 0 0	-	1. 0 0	1. 0 0	1. 0 0
84	8I T4 - 21	Internet of Things Lab	CO1	Recognize the key features of IoT in terms of computer hardware and be able to discuss their functions.	2	-	-	-	-	-	-	-	-	-	-	_	2	-	-

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			CO2	Knowledge of Raspberry Pi in Peripheral and in Trouble shooting.	-	1	3	-	-	-	-	-	-	-	-	-	-	2	-
			CO3	Analyze basic protocols in wireless sensor network.	-	2	2	-	-	-	-	-	-	-	-	-	-	-	2
			CO4	Evaluate networking technologies for application within IoT.	1	2	3	-	-	-	-	-	-	-	-	-	2	-	-
			CO5	Identify the Kits required for solving the Real-World Problem and to write the Code.	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-
					1. 5 0	1. 6 7	2. 6 7	-	-	-	-	-	-	-	-	-	2. 3 3	2. 0 0	2. 0 0
85	8I T4 - 22	Software Testing and Validation Lab	CO1	List a range of different software testing techniques and strategies in software unit test, integration and system testing.	3	-	-	-	-	-	-	-	-	-	-	-	2	-	2
			CO2	Apply modern software testing processes in relation to software development and project management.	-	3	-	-	3	-	-	-	-	-	-	-	3	2	-
			CO3	Calculate coverage analysis and mutation scores of programs using various tools like JaBuTi, Eclemma, Jumble etc.	-	3	-	-	3	-	-	-	-	-	-	-	-	3	-
			CO4	Analyze and measure the performance of different websites using the JMeter tool	-	-	3	-	3	-	-	-	-	-	-	-	3	-	3
			CO5	Create test strategies and plans, design test cases, prioritize and execute them.	-	-	3	-	3	-	-	-	-	-	-	-	-	3	3

					-	3. 0 0	3. 0 0	-	3. 0 0	-	-	-	-	-	-	-	3. 0 0	2. 6 7	3. 0 0
86	8I T7 - 50	Project	CO1	Identify a complex problem by reviewing research literature	-	-	3	-	-	-	-	-	-	-	-	3	2	3	2
			CO2	Understand procedures pertaining to architecture, algorithmic design, code implementation, system integration and testing.	-	-	3	-	-	-	-	-	-	-	2	-	2	-	-
			CO3	Design a feasible solution to be undertaken as software project and in multidisciplinary environment with appropriate consideration for security and environmental issues.	-	-	-	3	3	-	-	-	-	-	-	2	3	2	2
			CO4	Implement software life cycle processes and the embodied concepts using modern tools and techniques for project implementation and development.	-	-	-	3	3	-	-	-	-	-	-	3	3	3	2
			CO5	Develop effective project management, time management, leadership, oral and written communication skills with ethical behavior during the different phases of project related	-	-	-	-	-	2	2	3	3	3	3	-	2	3	3
			CO6	Integrate software components and third party tools for efficient project outcomes thereby meeting customer requirements for the project.	-	-	-	-	3	-	-	-	-	-	3	-	-	3	2
			CO7	Document project report which includes feasibility study, cost estimation, project milestones and performance parameters, diagrammatic representations of different	-	-	-	3	-	-	-	-	3	3	2	2	3	2	3
			CO8	Present and deliver the project to the stakeholders thereby demonstrating communication and teamwork skills	-	-	-	-	-	3	2	3	2	3	3	2	2	3	2
					-	-	3. 0 0	3. 0 0	3. 0 0	2. 5 0	2. 0 0	3. 0 0	2. 6 7	3. 0 0	2. 6 0	2. 4 0	2. 4 3	2. 7 1	2. 2 9

12 Course File Sample

Outcome Based Process Implementation Guidelines for Faculty

12.1 Labelling your course file

- Name of faculty:
- · Class- SEM:
- Branch:
- Course Code:
- Course Name:
- Session:

12.2 List of Documents:

- 1. Vision & Mission Statements of the Institute
- 2. Vision & Mission Statements of the Department
- 3. List of PEO, PSO and PO of department
- 4. Personal Time Table
- 5. RTU Svllabus
- 6. Document as per point no. 1-4 in guidelines
- 7. Course Plan
- 8. Document as per point no 6-12 in guidelines
- 9. Document for CO Assessment Stage 1: As per point no 13, up to 13.2.5
- 10. Document for CO Assessment Stage 2: As per point no 13, up to 13.2.5, with comparison to previous
- 11. Document for CO Assessment Stage 3: As per point no 13, up to 13.2.5, with comparison to previous
- 12. Document for CO Attainment through RTU Component: Previous RTU Result: point no. 13.3 upto 13.3.2
- 13. Document for PO attainment through RTU Component: Previous RTU Result: point no. 13.4 upto 13.4.2
- 14. Document for Overall Attainment of PO through CO: As per point no 13.5
- 15. Document for last three years (Repeat process from 6-14 above): Comparative data should be included in course file
- 16. Lecture Notes
- 17. Copy of Assignments questions given from time to time
- 18. Copy of Tutorial Sheets given (if applicable)
- 19. RTU Question Papers with answer
- 20. Internal Assessment Question Papers with answer from time to time
- 21. Topics covered beyond syllabus- References
- 22. Details of any other activity and its assessment through rubric be included
- 23. Mapping department level/ focus activities with your COs

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13 Outcome Based Process Implementation Guidelines for Faculty

Course CO-PO, Preparation, Assessment Formats

Academic Session: 2021-2022	Class:	Semester:
NI C41 Th 14		

Name of the Faculty:

Subject: Subject Code:

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

- 1. Vision & Mission of Department: Statement and Mapping with Institute Mission Here you have to include department mission & vision statements and show mapping of keywords with institute mission.
- 2. Program Educational Objectives (PEOs): Statement and Mapping with Department Vision & Mission
 - Here you have to include department PEO statements and show mapping of keywords with department vision & mission.
- 3. Program Specific Outcome (PSOs): Statement and Mapping with Department Vision & Mission
 - Here you have to include department PSO statements and show mapping of keywords with department vision & mission.
- 4. Program Outcome (POs): Statement and Mapping with PEO and PSO
 Here you have to include PO statements and show mapping of keywords with department PEOs & PSOs.
- 5. Course Plan (Deployment):

(Please write how you 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

- O coverage of Units by lectures
- O design exercises
- O demonstration of models
- O by assignments

Lecture No.	Lect. No.	Topics, Problems, Applications	CO/LO	Target Date of Coverage	Actual Date of Coverage	Ref. Book/Journal with Page No.
1.	1	Introduction of OS	CO1	12/07/2019	12/07/2019	T1 Page 121 - 126
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						

Example T1: Principles of OS, By Ramesh Soni, Tata MGHill, Edition 2019

- 6. **Course Outcomes:** Look for strong mapping of course with specific PO (2-3). Define Generic Course Outcomes (max 4 to 6) using Blooms Taxonomy. (In case of Lab Course define generic Lab Outcomes LO and refer CO as LO in this document).
 - i. 6IT4-03.1(CO1)-
 - ii. 6IT4-03.2(CO2)-
 - iii. 6IT4-03.3(CO3)-
 - iv. 6IT4-03.4(CO4)-
 - v. 6IT4-03.5(CO5)-

7. CO-PO-PSO Mapping: Mapping Levels: 1- Low, 2- Moderate, 3-Strong

First try to find out 2-3 PO those are strongly related to your subject contents. Go through the contents and try to formulate 4-5 Course Outcome as per bloom taxonomy. Map each CO with PO and PSO as above. While mapping please rethink if you map any PO with 3, it means you are planning to deliver the contents of that level and you will also examine the students at that level.

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

7.1 PO Strongly Mapped: (Example):

O PO2: Write full statement with keywords highlighted o PO3: Write full statement with keywords highlighted o PO4: Write full statement with keywords highlighted

7.2 PO Moderately Mapped: (Example)

O PO1: Write full statement with keywords highlighted O PO11: Write full statement with keywords highlighted

7.3 PO Low Mapped: (Example)

O PO12: Write full statement with keywords highlighted

7.4 PSO Strongly Mapped: (Example)

O PSO 1: Write full statement with keywords highlighted

7.5 PSO Moderately Mapped: (Example)

O PSO 2: Write full statement with keywords highlighted

6.6 PSO Low Mapped: (Example)

O PSO 3: Write full statement with keywords highlighted

8. Rules for CO/LO Attainment 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.

Remember that targets for internal assessment should be higher.

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Course Category	Level 3	Level 2	Level 1
A	60 % of students getting	50-60 % of students	40-50 % of students
	> 60% marks	getting > 60% marks	getting > 60% marks
В	80 % of students getting	60-80 % of students	40-60 % of students
	> 60% marks	getting > 60% marks	getting > 60% marks
С	90 % of students getting	70-90 % of students	40-70 % of students
	> 60% marks	getting > 60% marks	getting > 60% marks

9. End Term RTU Component: CO Attainment Levels

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 and the results of past 3-5 years, you can decide specific range for CO attainment targets for RTU component from the following table.

Course Category	Level 3	Level 2	Level 1
A	50 % of students getting	40-50 % of students	30-40 % of students
	> 60% marks	getting > 60% marks	getting > 60% marks
В	60 % of students getting	40-60 % of students	30-40 % of students
	> 60% marks	getting > 60% marks	getting > 60% marks
С	80 % of students getting	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.	Course Type	Attainment Level=1	Attainment Level=2	Attainment Level=3
1	Theory Courses Mid Semester Exams			
2	Theory Courses University Exam			
4	Practical Courses - Internal Exams			
5	Practical Courses - University Exam			
6	Assignments/Unit Test			
7.	Any other			

10. CO wise Assessment Activities (as Mentioned in Session Plan):

You can plan for each CO, activities/ assessment tools to be conducted/ used for its achievement. Use X to those you select for specific CO. Remove all unused columns.

								Act	ivities							
CO	Pre	Post	Quiz 1	Quiz	Pre Mid	Post				Semin	Project	Trainin	Discussio	Mid 1	Mid 2	Ind.
	Mid I	Mid I		2	II Test	Mid II	nmen	ment 2	op	ar		g	n			visit
	Test	Test				Test	t 1									
CO ₁																
CO2																
CO3																
CO4																
CO4 CO5																
CO6																

In case of Lab course some activities are as follows:

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

11. CO wise Assessment Activities:

Based on CO-PO mapping, determine targets 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 wise Assessment Tools:

This gives you generalized view of different direct and indirect tools those can be used for assessment / achievement of CO/PO. (Decide which tools are required for assessing a particular CO/LO and in reference to Course A, B, C difficulty level).

Sr. No.	Activity	Assessment	Tools	Weightage	Recommendation
	•	Method		Marks	
1.	Pre-Mid Term 1	Direct	Marks	10	For CO
2.	Post-Mid Term 1	Direct	Marks	10	For CO
3.	Quiz 1	Direct	Marks	10	For CO
4.	Quiz 2	Direct	Marks	10	For CO
5.	Pre Mid Term 2	Direct	Marks	10	For CO
6.	Post Mid Term 2	Direct	Marks	10	For CO
7.	Mid Term 1	Direct	Marks	20	For CO
8.	Mid Term 2	Direct	Marks	20	For CO
9.	Assignment 1	Direct	Marks	10	For CO
10.	Assignment 2	Direct	Marks	10	For CO
11.	Workshop	Indirect	Rubrics	5	For LO
12.	Seminar/ SPL	Indirect	Rubrics	5	For CO/LO
13.	Project (Mini or NSP)	Indirect	Rubrics	20	For LO
14.	Discussion	Indirect	Rubrics	5	For LO
15.	Training	Indirect	Rubrics	20	For LO
16.	Industrial Visit	Indirect	Rubrics	20	For LO
17.	Or any other activity	Direct/	Marks/	any	For LO
		Indirect	Rubrics		
18.					
	for every rubrics you nee ange of marks or weighta				

13. CO Assessment Process:

After every activity (Ideally as per above table): (Frequency of Assessment- Can be taken as monthly). So the assessment can be for all activities held during the month. Do the following.

13.1 Attainment of COs

13.1.1 Attainment Table for CO1: 6IT4-03.1

Student	Pre Mid I Test 10	Quiz 1 10	Assignment 10	Quiz 1 10	WS 10	Training 10	Total (60)	% 0f Marks	Level of Attainment
Name1									3
Name2									2
Name 3									1
Name 4									2
Name 5									1
Name 6									2
	No. of Stude	ents attain	ed level 3=			% of Stude	nts Attain	ed Level 3:	=
	No. of Stude	ents attain	ed level 2=			% of Stude	nts Attain	ed Level 2:	=
	No. of Stude	ents attain	ed level 1=			% of Stude	nts Attain	ed Level 1:	=
	Target Ach	ieved=?(Check Level 3	% attainm	ent -If N	o Find Gap)			

(Repeat it for all other COs, (CO2 – CO5))

13.1.2 CO-Gap Identifications

COs	CO 1	CO 2	CO 3	CO4	CO5
Target					
Achieved					
Gap					

13.1.3 Gaps Identified:

Describe what the reasons for gaps are

i.

ii.

Overall CO Attainment Table: Example

COs	CO 1	CO 2	CO 3	CO4	CO5	Co6
Attainment level as per rules						
set	3	1	3	3	3	3
Average CO attainment through internal assessment			2	.67		

13.1.4: Activities Decided to bridge the gap

Please do analyze whether you could get improvement through activities decided and conducted for improvements. Reason should be noted why / how it is improved or not.

13.2 Attainment of POs & PSO:

13.2.1 Target-Expected Attainment of PO by attainment of CO- Put all mappings of 3, 2 and 1. Based on CO-PO mapping, determine targets for each PO as average of targets of all relevant COs.

CO						P	O							PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
4ITA101.1															
4IT A101.2															
4IT A101.3															
4IT A101.4															
4IT A101.5															
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 Attainment of POs & PSO through CO as Continuous Evaluation:

Put all attainment values of CO as per mappings with 3, 2, 1 as evaluated in 13.1.1 (Frequency- Monthly)

CO						P	O							PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
6IT4-03.1															
6IT4-03.2															
6IT4-03.3															
6IT4-03.4															
6IT4-03.5															
Obtain Avg. 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 PO Gap Identification:

						P	O						PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Targets															
Achieved															
Gap															

13.2.4 Gaps Identified:

Describe what the reasons for gap (for PO) are.

i.

ii.

13.2.5 Activities Decided to bridge the gap

Please do analyze whether you could get improvement through activities decided and conducted for improvements. Reason should be noted why / how it is improved or not.

Repeat whole process after one month, Two months, and three months. Plot bar chart for improvement in CO, PO & PSO. (Every month)

13.3 Attainment of CO through RTU Exam:

This may be possible for previous semester results so overall attainment. If faculty is changed, data will be evaluated by concerned faculty who taught and handed over to current faculty. If faculty not available, then current faculty will do the same.

Student	RTU Marks	% 0f	Level of Attainment
	(80)	Marks	
Name1			3
Name2			2
Name 3			1
Name 4			2
Name 5			1
Name 6			2
No. of Students at	tained level 3=	% of S	Students Attained Level 3=
No. of Students at	tained level 2=	% of S	Students Attained Level 2=
No. of Students at	tained level 1=	% of S	Students Attained Level 1=
CO Attainment = ? (Check Level 3 % attainmen	t -If No Find (Gap)
Mark X for absent- T	Take avg. of all present		

13.3.1 Attainment of CO through RTU Component:

CO: Course C	Code: Cour	se Name		
Target				
Achieved				
Gap				

13.3.1 Gaps for CO attainment through RTU Component:

Analyze RTU Question paper with respect to COs formulated, contents delivered and students examined, find out reasons for gaps

i.

ii.

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13.3.2 Action to be taken:

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

13.4 Attainment of PO through CO (RTU) Component

Put RTU Results as per target achieved only and mapping level, in following table

		A	Attair	ment	t of P	O thi	ough	CO	(RTU	J) Con	npone	nt			
CO	CO PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
4ITA101															

	Attainment of PO through CO (RTU) Component														
4ITA101		PO PSO													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Targets															
Achieved															
Gap															

13.4.1 Gaps in PO through CO from RTU component:

Analyze RTU Question paper with respect to COs formulated & mapped, contents delivered and students examined, find out reasons for gaps

Describe what are the reasons for gap

i.

ii.

13.4.2 Action to be taken:

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 weightage be considered.

- 1. Internal Assessment Total weightage- 40 %
- 2. RTU Component ----- Weightage 60 %

Put all attainments in the following table and compute.

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13.5.1: Table 1

	RTU Compo	nent		Internal	Assessm	ent		
Student	RTU Marks (80)	% of Marks	60% Weightage X6/100 (A)	Overall CO ()	% of Marks	Weightage X4/100 (B)	Total (A+B)	Level of Attainment
Name1								3
Name2								2
Name 3								1
Name 4								2
Name 5								1
Name 6								2
No. of Stu	dents attained	level 3=			% of S	Students Atta	ined Lev	rel 3=
No. of Stu	dents attained	level 2=			% of S	Students Atta	ined Leve	el 2=
No. of Stu	dents attained	level 1=			% of S	Students Atta	nined Lev	el 1=
	ent = ? (Check Le			Find Gap)				
Mark X for	absent- Take avg.	of all prese	nt					

OR

13.5.2: Table 2

	RTU		Inter	nal		Interi	nal		Intern	nal				
					CO1/ Activity 1		CO2/				Activi			
			(Weightage %)			2 (Weightage			(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 ()	% Of Mark s	Weighta ge X/100	Total (A+B+C+ D)	Level of Attainmen t
Name1														3
Name2														2
Name 3														1
Name 4														2
Name 5														1
Name 6														2

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No. of Students attained level 3= Level 3=	% of Students Attained
No. of Students attained level 2= Level 2=	% of Students Attained
No. of Students attained level 1= Level 1=	% of Students Attained
PO Attainment = ? (Check Level 3 % attainment -If No Find Gap)	
Mark X for absent- Take avg. of all present	

13.5.3: Overall PO & PSO Attainment through Course:

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

Attainment	Attainment of Overall PO for Session 2018-2019														
CO		PO												PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
4ITA101															
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														
3CSA101		PO										PSO			
	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 check in CO, PO & PSO. (Every Year).

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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 Practical Exam Format
- x. Mid Term Question Paper Format
- xi. Evaluation Sheets Format
- xii. Activity Report Format

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14.2 Front Page of Course File



TEACHING MANUAL

COURSE:	
SEMESTER:	
SUBJECT:	
SUB. CODE:	
CONT	ENT: Syllabus, Blown-up, Deployment, Zero Lectures,
Detailed l	ecture notes with cover page, Tutorial/Home-Assignment Sheets
	CECCION. 20
	SESSION: 20
NAME OF FACU	LTY:
DEPARTMENT:	
CAMPUS:	

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14.3 ABC Analysis Format



Department of Information Technology Even Semester 2021-22

ABC Analysis

Course: B. Tech. Class/Section: 3rd Year/A Date: 10/01/2022
Name of Faculty: XYZ Name of Subject: DME-II Subject Code: 6 TT 4-04

Sr. No.	Category A (Hard topics)	Category B (Topics with average hardness level)	Category C (Easy to understand topics)	Preparedness for "A" topics
1	Bolts subjected to variable stresses.	Goodman line, Soderberg line, Design of machine members subjected to combined, steady and alternating stresses. Design for finite life, Design of Shafts under Variable Stresses,	Variable load, loading pattern, endurance stresses, Influence of size, surface finish, notch sensitivity and stress concentration.	PPT & Notes
2	Design of IC Engine parts: Piston, Connecting rod, Crank shaft	Del.	********	PPT & Notes
3	Design of IC Engine components: Piston, Cylinder, Connecting Rod and Crank Shaft.	Design of helical compression, tension, torsional springs, springs under variable stresses.	Design of belt, rope and pulley drive system,	SPL & PPT
4	Design and force analysis of spur, helical, bevel and worm gears, Bearing reactions due to gear tooth forces.	Design of gear teeth: Lewis and Buckingham equations, wear and dynamic load considerations.		РРТ
5	Design of Sliding and Journal Bearing: Methods of lubrication, hydrodynamic, hydrostatic, boundary etc. Minimum film thickness and thermal equilibrium.	Selection of anti-friction bearings for different loads and load cycles, Mounting of the bearings, Method of lubrication.		SPL & PPT

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14.4 Blown-up Format



BLOWN UP SYLLABUS

Campus: PC	E Course: B.Tech.	Class/Section:	VI th sem./A	Date:06/01/2022
ame of Fac	ulty: XYZ	Name of Subje	ect: DME-II	Code: 6IT4-04
Sr. No.	Topic as pe	er Syllabus	BLOWN UP T	OPICS (Upto 10 Times Syllabus
	PART FATIGUE CONSIDERATIO	27.00		
1	1.1 Review of Fatigue (Lo	pading pattern)	1.1.1 Types of load 1.1.2 What is fatigue 1.1.3 Fatigue curv	ue? e
	1.2 Factor affecting endu	rance limit	1.1.4 Endurance li 1.2.1 Surface finis	
			1.2.2 Size factor 1.2.3 Reliability fa 1.2.4 Temperatur	
	1.3 Notch sensitivity & St	tress concentration	1.3.1 factor of sa 1.3.2 stress cond 1.3.3 stress cond 1.3.4 notch sens 1.3.5 theoretical	centration centration curve
	DESIGN OF MACHINE MI	EMBER	7	
	1.4 Goodman, Goderberg machine member under alternating stress_Design	steady, Variable and	method 1.4.2 Design und 1.4.3 Mean and v 1.4.4 Design for o	
	1.5 Design for finite life		1.5.2 Goodman a	nt of finite life design pproach toward finite life approach for finite life design
	PART-2 DESIGN OF I.C ENGINE P	ARTS		
2	2.1 Design of I .C Engine	Piston	2.1.2 Different ma 2.1.3 Effect of ma	on and its importance? aterials used for the piston. aterials on the Piston design of various pressure and inertia forces

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Curriculum Delivery Plan

Poornima College of Engineering 131-6, RIICO Institutional Area Stapura, JAIPUR

14.5 Deployment Format



	ampus: PCE Course: B.Tech. Name of Faculty: XYZ		Class/S Name o	7	Date: 05/01/2022 Code: 6IT4-04		
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	COI	11/01/2022	11/01/2022	PPT	Machine design
2	Introduction to Unit:1 Introduction of the lecture 1.1.1 Types of load	L-2	COI	12/01/2022	12/01/2022	Chalk/ Board	by V.B Bhandari & R. S Khurmi Machine design
	1.1.2 What is fatigue 1.1.3 Fatigue curve 1.1.4 Endurance limit Conclusion of the lecture Brief of next lecture			4	4		by V.B Bhandari & R. S Khurmi Page No 34-38
3	Introduction of the lecture 1.2.1 Surface finish factor 1.2.2 Size factor 1.2.3 Reliability factor 1.2.4 Temperature factor Conclusion of the lecture Brief of next lecture	L-3	COI	14/01/2023	14/01/2022	Chalk/ Board	Machine design by V.B Bhandari & R. S Khurmi Page No 44-52
4	Introduction of the lecture 1.3.1 Factor of safety 1.3.2 Stress concentration 1.3.3 Stress concentration curve Conclusion of the lecture Brief of next lecture	L-4C	CO1,2	16/01/2022	16/01/2022	Chalk/ Board	Machine design by V.B Bhandari & R. S Khurmi Page No 58-62
5	Introduction of the lecture 1.3.4 Notch sensitivity 1.3.5 Theoretical stress concentration factor Conclusion of the lecture Brief of next lecture	L-5	COI	17/01/2022	17/01/2022	Chalk/ Board	Machine design by V.B Bhandari & R. S Khurmi Page No 73-82
6	Introduction of the lecture 1.4.1 Goodman line, Soderberg line, Gerber parabola method the design of member	L-6	CO1,2	18/01/2022	18/01/2022	Chalk/ Board	Machine design by V.B Bhandari & R. S Khurmi Page No 82-88

Poornima College of Engineering ISI-6, FUICO Institutional Area Stlapura, JAIPUR

14.6 Zero Lecture Format



ZERO LECTURE

			Session:	20 - (Sem	.)		
Can	pus:	<u></u>	. Course:		Class/S	ection:		
Nam	e of Fac	ulty:		<mark>.</mark>				
				Zero Lec	ture			
1). N	ame of Su	bject:		Co	de:			
a). No b). Q c). Do d). Re e). E- f). Of taken and In	ualification esignation. esearch Ar mail Id: ther detail, Member nternationa	n: ::ea: :s: Information	nal body, Aca e/Journals etc ts:	s of proficienc demic Proficier	y/ expertise s icy, Book Autl	such as subjec hored, Paper p	et taught, l oublished in	aboratory 1 National
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 elation with	al Language on to subject oup/place the o Branch: o Society: o Self: h laboratory	t: - (Pl. separ m appropriate	o* 20	Hindi (Englis	sh not less tha	an 60%)	
SATURNOUS SANS	llabus	an previou	, year and nex	yeur.				
a). U	nit Name:	is (RGB meth	nod) of unit &	topics				

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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	**		11.5	Vi
T1					
T2			97	10	9
T3					
Reference	Books				
R1				60	
R2					
R3	Me = 30 8000			10	
Websites r	elated to subject	-2	•	1.5	
1					
2					

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

8). Syllabus Deployment: -

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

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

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

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

- b). Special Activities (To be approved by HOD & Dean & must be mentioned in deployment):
 - Open Book Test- Once in a semester
 - Quiz Once in a semester
 - Special Lectures (SPL)- Minimum 10% of total no. of lectures including following
 - 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.		1 1			
5.					

- d). Introduction & Conclusion: Each subject, unit and topic shall start with introduction & close with conclusion. In case of the subject, it is Zero lecture.
- e). Time Distribution in lecture class: Time allotted: 60 min.
- i. First 5 min. should be utilized for paying attention towards students who were absent for last lecture or continuously absent for many days + taking attendance by calling the names of the students and also sharing any new/relevant information.

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

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

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

Objective: - To enhance the recall mechanism.

To promote logical reasoning and thinking of the students.

To interact personally to the students for improve numerical solving ability.

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

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

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14.7 Lecture Note Front page Format



LECTURE NOTES

nmpus:	Class/Section:	Date:
OBJECTIVE: To be written before taking the lec will be taught in this lecture)		
IMPORTANT & RELEVANT QUESTIONS:		
FEED BACK QUESTIONS (AFTER 20 MINU	TES):	
OUTCOME OF THE DELIVERED LECTURE students' feedback on this lecture, level of underst		e in bullet points abou
,		
REFERENCES: Text/Ref. Book with Page No. a	and relevant Internet Websites:	

14.7.1 Detailed Lecture Note Format-1



DETAILED LECTURE NOTES

	al (a)	
Campus: Course:	Class/Section:	Date:
Name of Faculty:	Name of Subject:	Code:

14.7.2 Detailed Lecture Note Format-2



DETAILED LECTURE NOTES

PAGE NO.

14.8 Assignment Format



Assignment Sheet-1 Class/Section: III Campus: PCE Course: B.Tech. Date: Name of Faculty: SKT Name of Subject: Analysis of Algorithms Code: 6IT4-04 Date of Preparation: Scheduled Date of Submission: Q. **PSOs** Questions COs POs No. Discuss influence of size, surface, reliability and modifying factor on endurance COL PO₂ PSO1 limit of material. Discuss various methods of mitigation of stress concentration COL PO₂ PSO1 Define the following terms used in design of machine elements PSO1 3 COL PO2 (i) Size Factor (ii) Notch Sensitivity (iii) Surface Finish Factor What do you mean by stress concentration? How do you take it into consideration PSO₁ CO₁ PO₂ in case of components subjected to dynamic loads? 5 Explain difference between Soderberg, Goodman and Gerber criteria in detail. COL PO₂ PSO₁ What is physical significance of notch sensitivity factor being one of zero. COL PO₂ PSO1 6 What is fluctuating stresses? Draw stress-time curves for different fluctuating PSO₁ COL PO₂ stresses. What is endurance strength? Draw S-N diagram and list various factors affecting it. COI PO₂ PSO₁ 9 Draw and describe Goodman and Soderberg diagram. COL PO₂ PSO1 10 Explain modified Goodman diagram for bending stresses. COL PO₂ PSO1

14.9 Tutorial Format



	Тит	ORIAL SHEET		
TUTORIA	L SHEET		SHEET No	
Name of Fa	Course:	Class/Section:		
FIRST 20 MT. CLASS QUESTIONS		Questions	СО	PO
2 HRS. SOLVABLE HOME ASSIGNMENT (H.A.) QUESTIONS				
THER IMPORTANT QUESTIONS				

14.10 Mid Term/ End Term Practical Question Paper Format

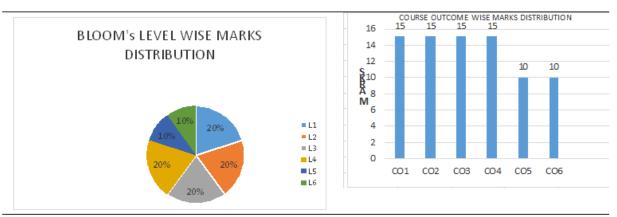
Poornima College of Engineering, Jaipur Department of Information Technology Odd Sem. 2021-22 3IT4-22: Object Oriented Programming Lab I Midterm Practical Exam (Set-1)

		•									
Date	or L										
Q. No.	СО	РО	Question	Marks							
2											
•••			Decamine Callege of Engineering Joinus								
			Poornima College of Engineering, Jaipur Department of Information Technology Odd Sem. 2021-22 3IT4-22: Object Oriented Programming Lab I Midterm Practical Exam (Set-2)								
			Time Duration: Max Marks: 30	2 hours							
Q. No.	СО	РО	Question	Marks							
2											
•••											
			Poornima College of Engineering, Jaipur Department of Information Technology Odd Sem. 2021-22 3IT4-22: Object Oriented Programming Lab I Midterm Practical Exam (Set-3)								
	of Fac of Exa	•	Time Duration: Max Marks: 30	2 hours							
Q. No.	СО	РО	Question	Marks							
2											
				-							
	1	1									

14.11 Mid Term Theory Question Paper Format

	POORNIMA COLLEGE OF ENGINEERING, JAIPUR	l
II B.TECH. (II	II Sem.)	Roll No.
•	FIRST MID TERM EXAMINATION 2022-23	
	Code: 3IT2-01 Category: PCC Subject Name-ADVANCE ENGINEERIN (BRANCH - INFORMATION TECHNOLOGY)	G MATHEMATICS -I
		Course Credit:
Max. Time: 2	2 hrs.	Max. Marks: 60
NOTE:-	Read the guidelines given with each part carefully.	
	tcomes (CO):	
At the end o	of the course the student should be able to:	
CO1:		
CO2:		
CO3:		
CO4:		
CO5:		
CO6·		

,	s are compulsory) Max. Marks (10) Marks	CO	BL	PO
.1				
	2			
.2	2			
.3	2			
.4	2			
.5	2			
PART - B: (Attempt 4 q	uestions out of 6) Max. Marks (20)			
.0	5			
.7	5			
.8	5			
.9	5			
.10	5			
.11	5			
PART - C: (Attempt 3 q	uestions out of 4) Max. Marks (30)			
.12	10			
.13	10			
.14	10			
. 15	10			



BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analyzing, 5 – Evaluating, 6 - Creating)

CO - Course Outcomes; PO - Program Outcomes

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14.12 Evaluation Sheet Format (Theory)

	I M	IID TEDI	M THEOD	Y FXAM. 2022-23	POORN			GE O			KING,	IAIPU	K		R	TECH	II YF	ΔR /III	SEM	1	
I MID TERM THEORY EXAM, 2022-23 Subject Code:					Subject	TION	SHEE				B. TECH. II YEAR (III SEM.)										
		e of Exa			Name of Ex																
Brai	ıch			IT										SE MA							2IT1
					Q. No.	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10	Q.11	Q.12	Q.13	Q.14	Q.15	Total
c					LO No.																
S. No.	Year	Batch	Roll No.	Name of Students	BL No. PO No.																60
NO.					Max.																00
					Marks:																
1	21T	2П1	21/IT/01	AAYUSH KUMAR JHA .	PCE21IT001																0
2	2П	2П1	21/IT/02	AAYUSH SHARMA	PCE21IT002																0
3	21T	2IT1	21/IT/03	ABHISHEK .	PCE21IT003																0
4	21T	2IT1	21/IT/04	ADITYA SHARMA	PCE21IT004																0
5	21T	2П1	21/IT/05	AMAN BATRA	PCE21IT005																0
6	217	2IT1	21/IT/06	ANIMESH KUMAR GARG	PCE21IT007																0
7	2IT 2IT	2IT1	21/IT/07 21/IT/08	ANSHIKA JAIN ANUSH AGARWAL	PCE21IT009 PCE21IT010						_										0
9	211	2IT1	21/IT/09	ARPIT JAIN	PCE21IT011																0
10	211	2П1	21/IT/10	ASHISH AGRAWAL	PCE21IT012																0
11	21T	2П1	21/IT/11	AVINASH KUMAR	PCE21IT013		1		7												0
12	21T	2IT1	21/IT/12	AYUSH KUMAR	PCE21IT014																0
13	21T	2IT1	21/IT/13	AYUSHI SHARMA	PCE21IT511																0
14	217	2IT1	21/17/14	BHAVIN GARG	PCE21IT015		_	ļ	_	_	_								_	_	0
15 16	2IT 2IT	2IT1 2IT1	21/IT/15 21/IT/16	CHINU GUPTA CHIRAG VIJAYVERGIYA	PCE21IT016 PCE21IT017	<u> </u>	-		-	-	-	_		—						-	0
				DEEPANSHU SINGH		_		-	-	_											
17	211	2IT1	21/17/17	BHADORIYA	PCE21IT018	L	L	L	L	L	L	L	L	L	L_				L	L	0
18	21T	2П1	21/IT/18	DEVANSH SHARMA	PCE21IT019																0
19	21T	2IT1	21/17/19	DIKSHA SHARMA	PCE21IT020																0
20	217	2IT1	21/17/20	DIVAKAR SHARMA	PCE21IT021		_	-	<u> </u>	_	_									_	0
21	2П	2IT1	21/IT/21	DIVYA JAIN DIVYANSHU SINGH	PCE21IT022	-			-										-		0
22	21T	2П1	21/IT/22	RATHORE	PCE21IT023																0
23	2П	2П2	21/17/23	HARSH KATTEL	PCE21IT512																0
24	21T	2П2	21/17/24	HARSH KUMAR	PCE21IT024																0
25	21T	2П2	21/IT/25	HARSHIT SENGAR	PCE21IT025																0
26	211	2П2	21/17/26	HIMANSHU BANSAL	PCE21IT026																0
27 28	2IT 2IT	2IT2 2IT2	21/IT/27 21/IT/28	HITESH SHARMA JITENDRA VERMA	PCE21IT027 PCE21IT028																0
29	211	2IT2	21/17/29	KHWAHISH MOHINANI	PCE21IT029																0
30	211	2П2	21/IT/30	KRISHNA JODHA	PCE21IT030																0
31	21T	2П2	21/IT/31	LAVI.	PCE21IT031																0
32	21T	2П2	21/IT/32	LAVISH AGARWAL	PCE21IT032																0
33	2П	2П2	21/IT/33	LOKENDRA SINGH	PCE21IT033																0
34	21T	2П2	21/IT/34	SHEKHAWAT LUCKY TAK	PCE21IT034																0
35	21T	2П2	21/IT/35	MAYANK UPAMANYU	PCE21IT035																0
36	21T	2П2	21/IT/36	MUDIT VIJAY	PCE21IT036																0
37	21T	2П2	21/IT/37	NIDHI JANGIR	PCE21IT037																0
38	21T	2П2	21/IT/38	NIHIT JANGID	PCE21IT038																0
39	21T	2П2	21/IT/39	NIKHAR JAIN	PCE21IT039																0
40 41	2IT 2IT	2IT2 2IT2	21/IT/40 21/IT/41	NIKHIL ACHOLIYA PARTH MITTAL	PCE21IT040 PCE21IT041																0
42	2П	2П2	21/IT/42	PRIYANSH SINGH SOLANKI	PCE2111042																0
43	21T	2П2	21/IT/43	PURVI JAIN	PCE21IT043																0
44	2IT	2П2	21/17/44	RITESH KUMAR SINGH	PCE21IT044																0
45 46	2IT 2IT	2IT3 2IT3	21/IT/45 21/IT/46	RITU SINGH RITU TIWARI	PCE21IT045 PCE21IT046	-			-												0
46	2IT	2IT3	21/IT/46 21/IT/47	ROHIT KUMAR	PCE21IT046 PCE21IT047	-															0
48	211	2П3	21/17/48	SHASHANK SHARMA	PCE21IT048																0
49	2П	2П3	21/IT/50	SHRISH KUMAR	PCE21IT049																0
50	21T	2П3	21/IT/51	SHUBHAM SARIN	PCE21IT063																0
51	21T	2П3	21/17/52	SUPRIYA RANI	PCE21IT051		1				7										0
52	2IT	2П3	21/IT/53	TANMAY KUMAWAT	PCE21IT052		_														0
53 54	2IT 2IT	2IT3 2IT3	21/IT/54 21/IT/55	TANMAY SHARMA TARUN SAINI	PCE21IT053 PCE21IT054	-	-		-	-	-	-									0
55	2IT	2IT3	21/IT/56	TUSHAR SINGHAL	PCE21IT054 PCE21IT055																0
56	211	2IT3	21/17/57	VAIBHAV DUBEY	PCE21IT056																0
57	2П	2П3	21/17/58	VAIBHAV JAIN	PCE21IT057																0
58	21T	2П3	21/IT/59	VIDHI JAIN .	PCE21IT058																0
59	21T	2П3	21/IT/60	VINIT KHANDELWAL .	PCE21IT059					_	_										0
60	211	2П3	21/17/61	YASH GODHWANI	PCE21IT060		-				_										0
61 62	2IT 2IT	2IT3 2IT3	21/IT/62 21/IT/63	YASH SHARMA YOGESH YADAV	PCE21IT061 PCE21IT062	-		-	-	-											0
63	211	2IT3	21/IT/64	TANISHQUE SAXENA	PCE21IT062																0
64	211	2П3	21/IT/65	YASH CHATURVEDI	PCE21IT301																0
			ERAGE																		
Α				rks of Present Students	3																0
В				of Present Students	/ D																0
C D				Marks of students = A																	#DIV/0
E				vard out of (each stude ge marks per student (60 #DIV/0
F				of PASS Students	2.2 1001																0
G				. of FAIL Students																	64
Н			Total No	. of ABSENT Students																	0

14.13 Evaluation Sheet Format (Lab)

				AL EXAM, 2022-23	6.41			ATION	SHEE	T					В.	TECH.	II YEA	VR (III	SEM.))	
		e of Ex			Subject Name of E																
3re	nch			IT	100	Ex	perim	ents / C								1/4		Viva			2IT1
					Q. No. LO No.	Q.1	0.2	Q.3	Q.4	Q.5	Q.6	Q.7	0.8	Q.9	Q.10	Q.11	Q.12	Q.13	Q.14	Q.15	Total
S.	V	Dave b	Dall No.	Name of Students	BL No.																
No	Tear	Batch	Roll No.	Name of Students	PO No.																40
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1	2П	2871	21/17/01	AAYUSH KUMAR JHA	PCE21ff001																0
2	2/1	2171	21/11/02	AAYUSH SHARMA	PCE210002																0
3	207	2/11	21/IT/03 21/IT/04	ABHISHEK . ADITYA SHARMA	PCE21FF003	-	-	-	-	-			_	\vdash				-			0
5	207	2011	21/17/05	AMAN BATRA	PCEZETTOOS							-									0
6	-2П	2011	21/17/06	ANMESH KUMAR GARG	PCF21/T00Z	10			10 /												0
7	2ff	2/11	21/11/07	ANSHKA JAN	PCEZETTO09	1	73		4				-	\vdash	-						0
9	217	2011	21/IT/08 21/IT/09	ANUSH AGARWAL ARRIT JAIN	PCE21/T010	-	100	9	1	-			-		_		-				0
10	207	2/T1	21/17/10	ASHISH AGRAWAL	PCE21ff012	1	-	-													0
11	207	2571	21/07/11	AVNASH KUMAR	PCE21ff013																0
12	2ff	2071	21/17/12	AYUSH KUMAR AYUSHI SHARMA	PCE21ff014 PCE21ff511	-	-	-	-		-	_	_	-			_	_	-		0
14	20	2071	21/07/14	BHAVIN GARG	PCE21/F015	1			_					\vdash	-						0
15	207	2011	21/17/15	CHINU GUPTA	PCE21ff016																0
16	287	2171	21/IT/16	CHRAG VUAYVERGIYA	PCE21/T017						-										0
17	511	2171	21.67/17	DEEPANSHU SNIGH BHADORIYA	PCE21IT018																0
18	207	2011	21/11/16	DEVANSH SHARMA	PCE21IT019			-													0
19	2ff	2971	21/17/19	DIKSHA SHARMA	PCE21ff020		\vdash		-			-									0
20	207	2071	21/IT/20 21/IT/21	DIVAKAR SHARMA	PCE21ff021 PCE21ff022		-	-	-										-		0
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23	217	2072	21/11/23	HARSH KATTEL	PCE21ff512																0
24	211	2072	21/17/24	HARSH KUMAR	PCE21fT024																0
26	207	2072	21/IT/25 21/IT/26	HARSHIT SENGAR HMANSHU BANSAL	PCE21IT025 PCE2MT026	-	-	-	-	-	-			\vdash	_	_	_	_		-	0
27	207	2072	21/17/27	HITESH SHARMA	PCE21/1027			_				R.	-								0
28	207	2072	21/11/28	JITENORA VERMA	РСЕЗАПОЗВ	W			10 /			100	11								0
29	2/1	2072	21.61/29	KHWAHISH MOHNANI	PCI 21 IT029	9	7		4			1									0
30	207	2072	21/17/30	KRISHNA JODHA	PCE21ff030	-	100	-	9			- Common	100	\vdash	-						0
32	201	2/T2	21/11/32	LAVISH AGARWAL	PCE21IT031			-													0
33	211	2072	21/17/33	LOKENDRA SNIGH	PCE21IT033																0
34	201	2072	21/07/34	SHEKHAWAT LUCKY TAK	PCE21/1034	-	\vdash	-	\vdash	-			-	\vdash					-		0
35	201	2012	21/11/34	MAYANK UPAMANYU	PCE21IT034 PCE21IT035	1	-														0
36	211	2972	21/11/36	MUDIT VUAY	PCE21/T036																0
37	207	2012	21/17/37	NIDHI JANGIR	PCE21/T037																0
38	207	2072	21/IT/38 21/IT/39	NHIT JANGE MAL RAHOM	PCE21ff038 PCE21ff039	-	-	1	-					\vdash							0
40	211	2012	21/17/40	NIKHE ACHOLIYA	PCE21IT040																0
41	217	2072	21/17/41	PARTH MITTAL	PCE21ff041			100													0
42	211	2072	21/17/42	PRIYANSH SINGH SOLANKI	PCE21ff042																0
43	207	2072	21/17/43	PURVI JAIN	PCE21ff043				-												0
44	2ff	2872	21/17/44	RITESH KUMAR SWOH	PCE21/T044		100		100		0.00	10000									0
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S.	V-	P.	Roll No.	Name of Students	BL No.																
No	· ear	Datch	KUII NO.	Haine or students	PO No.																40
					Max. Marks:						7000										
45	2ff	2013	21/17/45	RITU SNIGH	PCE21IT045																0
46	207	2073	21/17/46	RITU TWARI	PCE21fT046																0
47	207	2073	21/IT/47 21/IT/48	ROHIT KUMAR SHASHANK SHARMA	PCE21fT047 PCE21fT048	-	-														0
49	217	2013	21/17/50	SHRISH KUMAR	PCE21IT048																0
50	207	2573	21/17/51	SHUBHAM SARN	PCE21ff063																0
51	211	2073	21/17/52	SUPRIYA RANI	PCE21FIOST				-			1	-								0
53	207	2073	21/IT/53 21/IT/54	TANMAY KUMAWAT TANMAY SHARMA	PCE21/052	9	-	-	11 /	-		-	2								0
54	207	2013	21/IT/55	TARUN SAINI	PCE21/T054	-	1		# (100									0
55	2/1	2073	21/07/56	TUSHAR SNOHAL	PCERTOSS	0	P.	9	10	-		-	-					1			0
56	2ff	2073	21/17/57	VABRAY DUBEY	PCE21ff056			-	-										-		0
58	207	2073	21/IT/58 21/IT/59	VAIBHAV JAIN VIDHI JAIN	PCE21/T057 PCE21/T058		-	-	-		-										0
59	207	2013	21/17/60	VNIT KHANDELWAL	PCE21ff059																0
60	217	2073	21/17/61	YASH GODHWANI	PCE21/T060																0
61	211	2173	21/17/62	YASH SHARMA	PCE21IT061																0
62	207	2073	21/IT/63 21/IT/64	YOGESH YADAV TANISHQUE SAXENA	PCE21fT362 PCE21fT300		-	-	-												0
	201	2013	21/17/65	YASH CHATURVEDI	PCE21/T301										3 11						0
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63 64 A B C D			Average Marks av % Average Total No	ward out of (each stude	ent)															Di	D N

Poornima College of Engineering
ISI-6, RIICO Institutional Area

15. 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/Downloads.ht ml	Format of Students & Employees										
4	https://www.turnitin.com/login_page.asp?lan g=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.Y ou	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										
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 take	en from Respective Department Heads										

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181-6, RIICO Institutional Area
Stlapura, JAIPUR



DEPARTMENT OF INFORMATION TECHNOLOGY

CURRICULUM DELIVERY PLAN

OUTLINE-ODD SEM-2022-23



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

• Phone: +91-141-2770790 • E-mail: infor@poornima.org

• Website: www.poornima.org

Dr. Mahesh Bundele

Cornima College of Engineering 131-6, FUICO Institutional Area

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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 Vision & Mission Statements

2.1 Vision & Mission Statements of the Institute

Vision of Institution

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

Mission of Institution

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

2.2 Vision & Mission Statements of the Programme B. Tech. (Information Technology)

2.2.1 Vision of Department

To attain distinction in education to enable students for their establishment as **globally competent professional** and empowering them with proficiency, **knowledge** and **research ability** required to be successful in field of Information Technology.

2.2.2 Mission of Department

- 1. To provide **state-of-the-art facilities** with **modern IT tools** to students and faculty thereby enabling them to develop **sustainable solutions** for real world problems.
- 2. To create and propagate knowledge in field of Information Technology through **research**, **teaching** and **learning** for meeting **societal challenges**.
- 3. To inculcate **analytical**, **leadership** and **team working** skills with **ethical behavior** in students and provide an environment for **continuous learning**.

2.2.3 PEO of the Department

Program Educational Objectives (PEOs

- 1. **PEO 1**: Graduate will have Fundamental & multidisciplinary knowledge with an ability to analyze, design, innovates and handles the realistic problems.
- 2. **PEO 2**: Graduate will possess ethical conduct, sense of responsibility to serve society and protect the environment.
- 3. **PEO 3**: Graduate will have strong foundation in academics, leadership qualities and lifelong learning for a prosperous professional career.

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2.2.4 Program Specific Outcome (PSOs)

- **PSO1.** Design, analyze and innovate solutions to technical issues in Thermal, Production and Design Engineering.
- **PSO2.** Exhibit the knowledge and skills in the field of Mechanical & Allied engineering concepts.
- **PSO3.** Apply the knowledge of skills in HVAC&R and Automobile engineering.

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 Information Technology, 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- IT	Chairman, IQAC	Dr. Mahesh M. Bundele (Principal & Director, PCE)	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
2	Member Secretary	Chairman, DAB-IT	Dr. Gajendra Singh Rajawat Head, Department of Information Technology	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur

3	Faculty representative-1	Chairman, DAB-IT	Dr. Nitesh Kaushik ProfIT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
4	Faculty representative-2	Chairman, DAB-IT	Mr. Amol Saxena Asst. Prof IT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
5	Faculty representative-3	Chairman, DAB-IT	Ms. Shazia Haque Asst. ProfIT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
6	Faculty representative-4	Chairman, DAB-IT	Mr. Shirish Nagar Asst. Prof IT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
7	Special Invitee	Chairman, DAB-IT	Dr. Rekha Nair Dean I Year, Poornima College of Engineering, Jaipur	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
8	Alumni Representative-1	Chairman, DAB-IT	Akshita Parakh (2020 passout)	INFOSYS
9	Alumni Representative-2	Chairman, DAB-IT	Prabhav Jain (2020 passout)	Celebal
10	Student Representative	Chairman, DAB-IT	Dhruv Jain (2023 batch)	Final Year IT
11	Industry Representative	Chairman, DAB-IT	Mr. Ankur Dalmiya,	Quality Analyst Shubhashish IT Services, Jaipur
12	Parents Representative-1	Chairman, DAB-IT	Mr. Rakesh Singh Chandawat (F/o Harshvardhan Singh Chandawat),	A-39, Ganesh Nagar New Sanganer Road, Sodala Jaipur 302019 Rajasthan
13	Parents Representative-2	Chairman, DAB-IT	Mr. Mahesh Khandelwal (F/o Yashika Khandelwal)	C 74, Pani Pech Prem Colony, Nehru Nagar Jaipur 302016 Rajasthan

3.1.4 Meeting Frequency & Objectives

Meeting	Meeting	Meeting	Meeting Objective	
No.	Code	Month-Week		
1.	DAB-1	July	Consideration of gaps and proposed activities by PAC last	
		First Week	meeting to be implemented in DAC and CDP.	
			 Prepares final draft of CDP and DAC to be proposed in 	
			upcoming IQAC meeting	
2.	DAB-2	September	• Approval / Suggestions of proposals from last PAC Meeting.	
		Second Week	Revision of DAB Drafts for being proposed in upcoming GC	
3	DAB-3	December	Draft preparation for DAC and CDP for upcoming semester	
		First Week	after considering inputs from PAC.	
			• Review Semester closure draft from PAC.	
4.	DAB-4	April Last	Draft of PCE Academic Calendar and CDP proposed	
		Week / May	 Previous session closure with gaps and feedback. 	
		First Week	• Completion of ATR-2 for current semester based on last GC	
			sessions 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 predefined methods.
- **4.** Execute Industry-Institute Interactions to enhance the employability thereby meeting the industry standards and requirements.
- 5. Implement Curriculum Delivery Plan & Department Academic Calendar.

3.2.3 Department-Wise Composition

S. No.	Category	Nominated by	Name of Members	Address
1	Chairman, PAC-IT	Chairman, IQAC / Head of Institution	Dr. Gajendra Singh Rajawat Head, Department of Information Technology	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
2	Member Secretary	Chairman, PAC-IT	Dr. Nitesh Kaushik ProfIT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
3	Faculty representative-1	Chairman, PAC-IT	Dr. Sandeep Bhargava Assoc. Prof IT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
4	Faculty representative-2	Chairman, PAC-IT	Mr. Shirish Nagar Asst. Prof IT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur
5	Faculty representative-3	Chairman, PAC-IT	Ms. Shazia Haque Asst. ProfIT	Poornima College of Engineering, ISI-6, RIICO Inst. Area, Sitapura, Jaipur

3.2.4 Meeting Frequency & Objectives

Meetin Meetin Meeting Meeting Objective		Meeting Objective			
g	g	Month-			
No.	Code	Week			
1.	PAC-1	July Last Week	 Execution of Academic, Extra and Co-Curricular activities 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 		
2.	PAC-2	August Last Week	 Execution of Academic, Extra and Co-Curricular activities 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 		
3	PAC-3	September Last Week	 Execution of Academic, Extra and Co-Curricular activities Regular assessment of Academic, Extra and Co-Curricular activities 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. 		
4.	PAC-4	October Last Week	 Inclusion of suggestions for revising gaps Execution of Academic, Extra and Co-Curricular activities according to 		

			oversetions in CC
			suggestions in GC
			Regular assessment of Academic, Extra and Co-Curricular activities
			Regular calculation of attainments
			Revision of academics gaps as previous attainment
			Revision of academics gaps as previous attainment
		November	Regular assessment of Academic, Extra and Co-Curricular activities
5.	PAC-5	Third	Identification and proposal of gaps and activities to be considered by DAB to Color deposit CDP for a proposal activities.
		Week	prepare Department Academic Calendar and CDP for upcoming semester.
			Semester closure report draft to be prepared Electrical and a selection of the control of
			Elective proposals/CBCS Incomparation of supportions from IOAC and DAP mastings in available of supportions of suppo
		Dagamban	• Incorporation of suggestions from IQAC and DAB meetings in execution of
	DACC	December	Semester activities
6.	PAC-6	Third	• Execution and assessment of Academic, Extra and Co-Curricular activities
		Week	 Revision of academics gaps as previous attainment Calculation of attainments
			Execution of Academic, Extra and Co-Curricular activities Regular assassment of Academic Extra and Co-Curricular activities
7	PAC-7	January	Regular assessment of Academic, Extra and Co-Curricular activities Regular aslaulation of attainments
7.	PAC-7	Last Week	Regular calculation of attainments
			Revision of Academics gaps Represent an application of program for all assessment attainment & gaps
			Prepared regular report of program for all assessment, attainment & gaps Fraggetian of Academic Futus and Co. Curricular activities.
			Execution of Academic, Extra and Co-Curricular activities Regular assessment of Academic Extra and Co-Curricular activities
0	PAC-8	February	Regular assessment of Academic, Extra and Co-Curricular activities Regular aslaulation of attainments.
8.	PAC-8	Last Week	Regular calculation of attainments
			Revision of Academics gaps Revision of Academics gaps Revision of Academics gaps 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
		March	Regular assessment of Academic, Extra and Co-currental activities Regular calculation of attainments
9.	PAC-9	Last Week	Revision of Academics gaps
		Last Week	 Revision of Academies gaps Prepared regular report of program for all assessment, attainment & gaps
			 Draft preparation of Semester closure
			Execution of Academic, Extra and Co-Curricular activities
		April	Regular assessment of Academic, Extra and Co-Curricular activities
10.	PAC-	Second	Regular assessment of Academic, Extra and Co-currental activities Regular calculation of attainments
10.	10	Week	Revision of Academics gaps
		,, con	 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
			Regular calculation of attainments
	PAC-	May	Revision of Academics gaps
11.	11	Last Week	Prepared regular report of program for all assessment, attainment & gaps
			Report submission of Semester closure
			 Identification and proposal of gaps and activities to be considered by DAB to
			prepare Department Academic Calendar and CDP for upcoming semester.
	F. ~	,	Feedback of last IQAC and suggestions for new semester to be implemented in
12.	PAC-	June	CDP and DAC
	12	Last Week	Elective proposals/CBCS
	1	I	, A A

4 List of Faculty Members & Technical Staff

Sr. No.	Faculty Name	Emp.ID	Designation	Email ID	Mobile No.
1.	MR. AMOL SAXENA	1114	ASST PROFESSOR	amolsaxena@hotmail.com	9982776883
2.	MS. SHAZIA HAQUE	1218	ASST PROFESSOR	shaziahaque@hotmail.com	9829318125
3.	MS. SITA GUPTA	3640	ASST PROFESSOR	sita.gupta@poornima.org	9785404340
4.	Dr. NITESH KAUSHIK	ISHIK 5792 PROFESSOR nitesh.kaushik@poornima.org		nitesh.kaushik@poornima.org	9351345599
5.	DR. SANDEEP BHARGAVA	5990	ASSOCIATE PROFESSOR	sandeep.bhargava@poornima.org	8118864109
6.	Dr. GAJENDRA SINGH RAJAWAT	6698	HOD &PROFESSOR	gajendra.rajawat@poornima.org	9414719108
7.	MS. MAINA CHANGERIWAL	7276	ASST PROFESSOR	maina.changeriwal@poornima.org	9782641192
8.	MR. AMITESH KUMAR	1293	ASST PROFESSOR	amiteshk@poornima.org	9529262120
9.	DR. SHILPI JAIN	1220	PROFESSOR	shilpijain1310@yahoo.co.in	9928279174
10.	MS. KALPANA SHARMA	6050	ASST PROFESSOR	klpna.sharma88@gmail.com	9413077523
11.	Mr. GHANSHYAM SINGH	6919	ASST PROFESSOR	kaviya01singh@gmail.com	9887814008
12.	Dr. SHALINI SHAH	7125	ASSOCIATE PROFESSOR	shalini.shah@poornima.org	9116789047

5 <u>Institute Academic Calendar</u>

Dr. Mahesh Bundele

12 B.E. M.E. Ph.D.

Poornima College of Engineering
131-6, RIICO Institutional Area
Stlapura, JAIPUR

	ال	ULY	2	02	2	
Sun	Mon	Tue	Wed	Thu	Fri	Sat
31					1	2
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20	21	22	23	24	25	26
27	28	29	30			

DECEMBER 2022



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

ACADEMIC CALENDAR 2022-23**

ODD SEMESTER

JULY 2022

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

AUGUST 2022

Tuesday 16
Wednesday 17
Monday 15
Tuesday 16 to Thursday 18
Wednesday 17 to Saturday 20

Commencement of Classes-Odd Semesters B.Tech III Set Commencement of Classes-Odd Semesters B.Tech VII Set Celebration of Independence Day

Orientation programme-B.Tech. III Sem. Orientation programme-B.Tech. VII Sem.

SEPTEMBER 2022

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

Monday 05

Thursday 15
Monday 19
Monday 19 to We dnesday 21
Monday 26 to Friday 30

Sunday 02

Thursday 06 Monday 10 to Saturday 15 Monday 10 to Saturday 29 Monday 31

Tuesday 01 Monday 07 to Saturday 12 Monday 28 Tuesday 29 to Saturday 03

Wednesday 07 Monday 12 Monday 12 to Saturday 17 Saturday 17 Monday 19 to Saturday 24 Friday 30

Monday 02 to Saturday 07 Tuesday 03 Monday 09 Tuesday 17 Wednesday 18

Thursday, 09 Friday 10 to Friday 17 Monday 20 Faculty Felicitation Program, Celebration of Teachers' activities under WISE

Engineers' Day

Commencement of Classes-Odd Semesters VSem.

Orientation programme-B. Tech. V Sem.

First Mid Term Theory & Practical Exam for B. Tech VII Sen

OCTOBER 2022

Annual Day 'KALANIDHI' & Prize distribution ceremony
Manthan-Inter-college Debate Competition
First Mid Term Theory & Practical Exam for B. Tech III Sem
Orientation programme-B. Tech. I Sem.
Commencement of Classes-Odd Semesters I Sem.

NOVEMBER 2022

Blood Donation Camp
First Mid Term Theory & Practical Exam for B. Tech V Sem
Last Teaching Day for B. Tech VI Sem

Second Mid-TermTheory & Practical Exam for B. Tech VII S

DECEMBER 2022

End-Term Theory Exams for B. Tech VII Sem
End-Term Practical Exams for B. Tech VII Sem
First Mid Term Theory & Practical Exam for B. Tech I Sem
Last Teaching Day for B. Tech III Sem
Second Mid-Term Theory & Practical Exam for B. Tech III S

Second Mid-TermTheory & Practical Exam for B.Tech I Last Teaching Day for B.Tech V Sem

JANUARY 2023

Second Mid-TermTheory & Practical Exam for B. Tech V Se End-Term Practical Exams for B. Tech III Sem End-Term Practical Exams for B. Tech V Sem

End-Term Theory Exams for B. Tech III Sem

End-Term Theory Exported Ton View

FEBRU DR. Mahesh Bundele

Last Teaching Day for B. Terbiffector
Second Nic 181-0 Full Co Institutional Area
End-Term Practical Editation and Area

Department Activity Calendar

Calendar for Information Technology Engineering; Odd Semester - Session 2022-23 (A) Academic Processes S. No. Activity/ Process B.Tech. Isem. III Sem. III Sem. III Sem. III Sem. III Sem. V Sem. Monday, Ceocher 31, 22 August 16, 22 September 19, 22 Orientation programme Monday, October 31, 22 Io Saturday, October 31, 22 Saturday, October 31, 22 Saturday, October 31, 22 September 19, 22 or Saturday, October 31, 22 Saturday, October 31, 22 Saturday, October 31, 22 September 19, 22 or Saturday, October 31, 22 October 32, 22 Saturday, October 31, 22 October 32, 22 Saturday, October 31, 22 Saturday, October 31, 22 October 32, 22 Saturday, October 31, 22 October 32, 22 Saturday, October 31, 22 October 32, 22 Saturday, October 32, 22 Saturday, October 32, 22 Saturday, October 32, 22 Saturday, October 32, 22 Saturday, October 32, 22 Saturday, October 32, 22 Saturday, October 32, 22 Saturday, October 32, 22 Saturday, October 32, 22 Saturday, October 32, 22 Saturday, October 32, 22 Saturday, October 32, 22 Saturday, October 32, 22 Saturday	22 Saturday, August 20, 22 2 Friday, September 16, 22 0 Monday, September 26, 22 to 2 Friday, October 30, 22 Upto Saturday, November 5, 2022 Upto Monday, November 7, 2022
S. No. Activity/ Process B.Tech. I Sem. Date of Registration & start of regular classes for students Monday, October 31, 22 Orientation programme Monday, October 31, 22 to Saturday, October 32, 22 to Saturday, October 39, 22 to Saturday, October 30, 220 Saturday, October 30, 22 Saturday, October 30, 22 Saturday, October 30, 22 Saturday, October 30, 22 Tou-sday, November 10, 22 Tou-sday, November 12, 22 Tou-sday, Nov	VII Sem. Wednesday, August 17, 22 to Wednesday, August 17, 22 to Saturday, August 20, 22 Friday, September 16, 22 Monday, September 26, 22 to Friday, October 30, 22 Upto Saturday, November 5, 2022 Upto Monday, November 7, 2022
S.No. Activity/ Process 1 Date of Registration & start of regular classes for students Date of Registration & Start of regular classes for students October 31, 22 Date of submission of question papers by faculty members to secrecy for 1st Mid-term Theory & Practical Exam Monday, October 29, 22 Tuesday, December 06, 22 Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, October 10, 22 to Saturday, November 12, 22 to Plipo Monday, October 10, 22 to Saturday, November 12, 22 to Plipo Monday, October 10, 22 to Saturday, October 10, 22 to Saturday, November 12, 22 to Plipo Monday, October 10, 22 to Saturday, October 10, 22 to Saturday, November 12, 22 to Plipo Monday, October 10, 22 to Saturday, October 10, 22	VII Sem. Wednesday, August 17, 22 to Wednesday, August 17, 22 to Saturday, August 20, 22 Friday, September 16, 22 Monday, September 26, 22 to Friday, October 30, 22 Upto Saturday, November 5, 2022 Upto Monday, November 7, 2022
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(C) Holidays	
30 Bakrid / Eid ul-Adha" Sunday, July 10, 2022	
31 Raksha Bandhan Thursday, August 11, 2022	
32 Shri Krishna Janmashtami Friday, August 19, 2022	
33 Vijay Dashmi Wednesday, October 05, 2022	
34 Diwali Break Saturday, October 22 -26, 2022	
35 Guru Nanak Jayanti Tuesday, November 08, 2022	
36 Christmas Sunday, December 25, 2022	
37 Winter Break As per RTU examination schedule	
"स्वच्छ भारतः सम्पन्न भारतः"	

6 Teaching Scheme

7.1 RTU Teaching Scheme

Dr. Mahesh Bundele
15 B.E., M.E., Ph.D.
Poornima College of Engineering
131-6, Filico Institutional Area
Stlapura, JAIPUR



Teaching & Examination Scheme B.Tech.: Information Technology 2nd Year - III Semester

			THEO	RY							
			Course	C	onta	ıct					
SN	Categ	١		hrs	/we	ek		Ma	ırks		Cr
	ory	Code	Title	L	T	P	Exm Hrs	IA	ЕТЕ	Total	
1	BSC	3IT2-01	Advanced Engineering Mathematics	3	0	0	3	30	70	100	3
2	HSMC	3IT1-02/ 3IT1-03	Technical Communication/ Managerial Economics and Financial Accounting	2	0	0	2	30	70	100	2
3	ESC	3IT3-04	Digital Electronics	3	0	0	3	30	70	100	3
4		3IT4-05	3	0	0	3	30	70	100	3	
5	PCC	3IT4-06	Object Oriented Programming	3	0	0	3	30	70	100	3
6		3IT4-07	Software Engineering	3	0	0	3	30	70	100	3
			Sub Total	17	0	0					17
		_									
			PRACTICAL &	SESS	SION	IAL					
8		3IT4-21	Data Structures and Algorithms Lab	0	0	3		60	40	100	1.5
9	PCC	3IT4-22	Object Oriented Programming Lab	0	0	3		60	40	100	1.5
10		3IT4-23	Software Engineering Lab	0	0	3		60	40	100	1.5
11		3IT4-24	Digital Electronics Lab	0	0	3		60	40	100	1.5
13	PSIT	3IT7-30	Industrial Training	0	0	1		60	40	100	1
14	SODE CA	Social Outreach, 3IT8-00 Discipline & Extra Curricular Activities		0	0	0				100	0.5
			Sub- Total	0	0	13					7.5
		TO	TAL OF III SEMESTER	17	0	13					24.5

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

ETE: End Term Exam, IA: Internal Assessment

Office of Dean Academic Affairs Rajasthan Technical University, Kota

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

Dr. Mahesh Bundele 16 B.E., M.E., Ph.D.

Peornima College of Engineering ISI-6, RIICO Institutional Area Stlapura, JAIPUR



Teaching & Examination Scheme **B.Tech.**: Information Technology 3rd Year - V Semester

			THEO	RY							
			Course	С	onta	act		M	ırks		Cr
SN	Categ			hr	s/we	ek		MIS	urks		CI
	ory	Code	Title	L	T	P	Exm Hrs	IA	ЕТЕ	Total	
1	ESC	5IT3-01	Microprocessor And Interfaces	2	0	0	3	30	70	100	2
2		5IT4-02	Compiler Design	3	0	0	3	30	70	100	3
3		5IT4-03	Operating System	3	0	0	3	30	70	100	3
4		5IT4-04	Computer Graphics & Multimedia	3	0	0	3	30	70	100	3
6	PCC/	5IT4-05	3	0	0	3	30	70	100	3	
7	PEC	Professions	al Elective 1 (any one)	2	0	0	3	30	70	100	2
		5IT5-11	Wireless Communication								
		5IT5-12	Software Testing and Project Management								
		5IT5-13	Bioinformatics								
			Sub-Total	16	0	0					16
⊢			PRACTICAL &	ores	TO E						
8	PCC	5IT4-21	Computer Graphics & Multimedia Lab	0	0	2	2	60	40	100	1
9	PCC	5IT4-22	Compiler Design Lab	0	0	2	2	60	40	100	1
10	PCC	5IT4-23	Analysis of Algorithms Lab	0	0	2	2	60	40	100	1
11	PCC	5IT4-24	Advanced Java Lab	0	0	2	2	60	40	100	1
12	PSIT	5IT7-30	Industrial Training	0	0	1		60	40	100	2.5
13	SODE CA	5IT8-00						100	100	0.5	
			Sub- Total	0	0	9					7
		T	OTAL OF V SEMESTER	16	0	9					23

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 3rd Year B. Tech. (IT) for students admitted in Session 2021-22 onwards. Page 2

Dr. Mahesh Bundele

B.E., M.E., Ph.D. Director

Curriculum Delivery Plan

Peornima College of Engineering 131-6, FiliCO Institutional Area Stlapura, JAIPUR



RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Scheme & Syllabus

IV Year- VII & VIII Semester: B. Tech. (Information Technology)

Teaching & Examination Scheme B.Tech.: Information Technology

4th Year - VII Semester

			THEO	RY							
SN	Categ		Course	_	ont s/w		Mark	s			Cr
	ory	Code	Title		Т	P	Exm Hrs	IA	ЕТЕ	Total	
1	PCC	7IT4-01	Big Data Analytics	3	0	0	3	30	120	150	3
2	OE		Open Elective - I	3	0	0	3	30	120	150	3
			Sub-Total	6	0	0	6	60	240	300	6
			PRACTICAL &	SES	SIOI	IAL					
3	PCC	7IT4-21	Big Data Analytics Lab	0	0	4	2	60	40	100	2
4	PCC	7IT4-22	Cyber Security Lab	0	0	4	2	60	40	100	2
5	PSIT	7IT7-30	Industrial Training	1	0	0				125	2.5
6	PSIT	7IT7-40	Seminar	2	0	0				100	2
7	SODE CA			1				25	0.5		
			Sub- Total	0	0	10	4	120	80	450	9
		TO	TAL OF VII SEMESTER	6	0	10	10	180	320	750	15

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

ETE: End Term Exam, IA: Internal Assessment

Dr. Mahesh Bundele

Oirector
Cornima College of Engineering
ISI-6, FUICO Institutional Area
Stapura, JAIPUR

7 PCE Teaching Scheme

									Poornima	J	aipu	r							
									Format for Teaching Scher	ne of Odd	Seme	ester 202	<u> 22-23</u>						
Working Group	Year	Sem	Stud ents	Deptt.		S	che	hing eme Credit	Course Name	Subject Code	No. of Sec	No. of Batch es	Batch Size (T/H/F)	Total Load (L)	Total Load (T)	Total Load (P)	Total Load (L+T+P)	Teaching Dept.	Cat.
CS/IT	2	3	60	ΙΤ	3	1	0	3	Advanced Engineering Mathematics	3IT2-01	1	3	F	3	3	0	6	Maths	BSC
CS/IT	2	3	60	IT	2	0	0	2	Managerial Economics and Financial Accounting	3IT1-03	1	3	F	2	0	0	2	Humanities	HSMC
CS/IT	2	3	60	IT	3	1	0	3	Digital Electronics	3IT3-04	1	3	F	3	3	0	6	EC	ESC
CS/IT	2	3	60	IT	4	0	0	3	Data Structures and Algorithms	3IT4-05	1	3	F	4	0	0	4	IT	PCC
CS/IT	2	3	60	IT	3	0	0	3	Object Oriented Programming	3IT4-06	1	3	F	3	0	0	3	IT	PCC
CS/IT	2	3	60	IT	3	0	0	3	Software Engineering	3IT4-07	1	3	F	3	0	0	3	IT	PCC
CS/IT	2	3	60	IT		0		1.5	Data Structures and Algorithms Lab	3IT4-21	1	3	Т	0	0	9	9	IT	PCC
CS/IT	2	3	60	IT		0		1.5	Object Oriented Programming Lab	3IT4-22	1	3	Т	0	0	6	6	IT	PCC
CS/IT	2	3	60	ΙT		0		1.5	Software Engineering Lab	3IT4-23	1	3	Т	0	0	6	6	IT	PCC
CS/IT	2	3	60	IT		0			Digital Electronics Lab	3IT4-24	1	3	Т	0	0	6	6	EC	ESC
CS/IT	2	3	60	IT	0	0	1	1	Industrial Training/ NSP	3IT7-30	1	3	Т	0	0	3	3	IT	PSIT
CS/IT	3	5	64	ΙΤ	3	0	0	2	Microprocessor And Interfaces	5IT3-01	1	3	F	3	0	0	3	EC	ESC
CS/IT	3	5	64	IT		0		3	Compiler Design	5IT4-02	1	3	F	4	0	0	4	IT	PCC
CS/IT	3	5	64	IT		0		3	Operating System	5IT4-03	1	3	F	3	0	0	3	IT	PCC
CS/IT	3	5	64	IT		0		3	Computer Graphics & Multimedia	5IT4-04	1	3	F	4	0	0	4	IT	PCC
CS/IT	3	5	64	IT	4	0	0	3	Analysis of Algorithms	5IT4-05	1	3	F	4	0	0	4	IT	PCC
CS/IT	3	5	64	IT		0	0	2	Wireless Communication	5IT5-11	1	3	F	3	0	0	3	EC	PEC
CS/IT	3	5	64	IT		0		2	Software Testing and Project Management	5IT5-12	1	3	F	3	0	0	3	IT	PEC
CS/IT	3	5	64	IT	0	0	2	1	Computer Graphics & Multimedia Lab	5lT4-21	1	3	Т	0	0	6	6	IT	PCC
CS/IT	3	5	64	IT		0		1	Compiler Design Lab	5IT4-22	1	3	T	0	0	6	6	IT	PCC
CS/IT	3	5	64	IT		0		1	Analysis of Algorithms Lab	5IT4-23	1	3	T	0	0	6	6	IT	PCC
CS/IT	3	5	64	IT		0		1	Advanced Java Lab	5IT4-24	1	3	T	0	0	6	6	IT	PCC
CS/IT	3	5	64	IT	0	0	1	2.5	Industrial Training/ NSP	5IT7-30	1	3	T	0	0	3	3	IT	PSIT
CS/IT	4	7	64	ΙΤ			0		Big Data Analytics	7IT4-01	1	3	F	3	0	0	3	IT	PCC
CS/IT	4	7	64	ΙΤ	3	0	0	3	Open Elective	7IT6-60.1	1	3	F	3	0	0	3	OE	OE
CS/IT	4	7	64	IT	0	0	3	2	Big Data Analytics Lab	7IT4-21	1	3	T	0	0	9	9	IT	PCC
CS/IT	4	7	64	IT			3		Cyber Security Lab	7IT4-22	1	3	Т	0	0	9	9	IT	PCC
CS/IT	4	7	64	IT	0	0	1	2.5	Industrial Training	7IT7-30	1	3	T	0	0	3	3	IT	PSIT
CS/IT	4	7	64	IT			2		Seminar	7IT7-40	1	2	Н	0	0	4	4	IT	PSIT
CS/IT	4	7	64				3		Minor Project	7ITPR	1	3	Т	0	0	9	9	IT	NA
									•								145		
							П							IT Loa	d		116		
														EC Lo			18		
					T									Maths			6		
					T		П								nities Lo	oad	2		
						П								OE Lo			3		

7.1 Marking Scheme

Code	SUBJECT	Exp.	Vi	erm va	Exam Total	Atten a	Perfori Perf.	Total	Exp.	Viva	Total	Mar
FY2-20 FY2-21	Engineering Physics Lab Engineering Chemistry Lab	30	1	0	40 40	10	30	40 40	30 30	10	40	10 10
FY1-22	Language Lab	30 30		0	40	10 10	30 30	40	30	10	40	10
FY1-23 FY3-24	Human Values Activities & Sports	30	1	0	40	10	30	40	30	10	40	10
Y3-24 Y3-25	Computer Programming Lab Manufacturing Practices Workshop	30 30		0	40 40	10 10	30 30	40 40	30 30	10 10	40 40	10 10
Y3-26	Basic Electrical Engineering Lab	30	1	0	40	10	30	40	30	10	40	10
Y3-27 Y3-28	Basic Civil Engineering Lab Computer Aided Engineering Graphics	30 30	1	0	40 40	10 10	30 30	40 40	30	10	40	10 10
FY3-29	Computer Aided Endineering Graphics	30		ŏ	40	10	30	40	30	10	40	10
CE4-21	Surveying Lab	30	_1		40	10	30	40	30	10	40	10
CE4-22 CE4-23	Fluid Mechanics Lab Computer Aided Civil Engineering Drawing	30 30		0	40 40	10 10	30 30	40 40	30 30	10 10	40 40	10 10
CE4-24	Civil Engineering Maretials Lab	30 30	1 1	0	40	10	30 30	40	30	10	40	10
CE4-25 CE7-30	Geology Lab Training Seminar	30	1	0	40	10	30	40	30	10 40	40	10 10
CS4-21	Data Structures and Algorithms Lab	30	1 1	0	40	10	30	40	30	10	40	10
CS4-22	Object Oriented Programming Lab	30	1	0	40	10	30 30	40	30 30	10	40	10
CS4-23 CS4-24	Software Engineering Lab Digital Electronics Lab	30 30		0	40 40	10	30	40 40	30	10 10	40	10 10
CS7-30	Training Seminar				- (60				40		10
AID4-21 AID4-22	Data Structures and Algorithms Lab Object Oriented Programming Lab	30 30	1	0	40 40	10 10	30 30	40 40	30 30	10	40	10 10
AID4-22	Software Engineering Lab	30		Ö	40	10	30	40	30	10	40	10
AID4-24	Digital Electronics Lab	30		Ó	40	10	30	40	30	10 40	40	10
AID7-30 CAI4-21	Industrial Training Data Structures and Algorithms Lab	30	1	0	40	10	30	40	30	10	40	10 10
Al4-22	Object Oriented Programming Lab	30		Ŏ	40	10	30	40	30	10	40	10
CAI4-23	Software Engineering Lab	30		Ŏ	40	10	30	40	30 30	10	40	10
CAI4-24 CAI7-30	Digital Electronics Lab Industrial Training	30		0	40	10	30	40	30	10 40	40	10 10
CCB4-21	Data Structures and Algorithms Lab	30		0	40	10	30 30	40	30 30	10	40	10
CCB4-22 CCB4-23	Object Oriented Programming Lab Software Engineering Lab	30 30	1	0	40 40	10 10	30 30	40 40	30 30	10 10	40	10 10
CB4-24	Digital Electronics Lab	30		ŏ	40	10	30	40	30	10	40	10
CCB7-30	Industrial Training	20		0		10	20	40		40		10 10
C4-21 C4-22	Electronics Devices Lab Digital System Design Lab	30 30		0	40 40	10	30 30	40 40	30 30	10	40	10
EC4-23	Signal Processing Lab	30	1	0	40	10	30 30	40	30	10	40	10
C3-24 C7-30	Computer Programming Lab-I Training Seminar	30	1	0	40	10	30	40	30	10 40	40	10 10
E4-21 E4-22 E4-23	Analog Electronics Lab	30		0	40	10	30 30	40	30 30	10	40	10
E4-22	Electrical Machine-I Lab	30 30	1	0	40 40	10 10	30 30	40 40	30 30	10	40	10 10
E7-30	Electrical circuit design Lab	30		U		50	30	40	30	10 40	40	10
T4-21	Data Structures and Algorithms Lab	30 30		0	40	10	30 30	40	30 30	10	40	10
T4-22 T4-23	Object Oriented Programming Lab Software Engineering Lab	30		0	40	10 10	30	40 40	30	10	40	10 10
T4-24	Digital Electronics Lab	30		Ŏ	40	10	30	40	30	10	40	10
T7-30 /IE4-21	Training Seminar Machine drawing practice	30	1 4	0	40	10	30	40	30	40	40	10 10
VIE4-22	Materials Testing Lab	30		0	40	10	30	40	30	10	40	10
VIE4-23	Basic Mechanical Engineering Lab	30 30	1	0	40	10	30 30	40	30	10	40	10
VIE4-24 VIE7-30	Programming using MAT LAB Training Seminar	30	1	0	40	10	30	40	30	10 40	40	10 10
F4-21	Concrete Structures Design	30		0	40	10	30	40	30	10	40	10
CE4-22	Geotechnical Engineering Lab Water Resource Engineering Design	30 30	1	0	40	10	30 30	40 40	30 30	10	40	10 10
CE4-22 CE4-23 CE7-30	Industrial Training	30		0		50	30	40	30	40	40	10
CS4-21	Computer Graphics & Multimedia Lab Compiler Design Lab	30 30	1	0	40 40	10	30	40 40	30	10	40 40	10 10
CS4-22 CS4-23 CS4-24	Analysis of Algorithms Lab	30	1	Ö	40	10	30 30	40	30 30	10	40	10
CS4-24	Advance Java Lab	30	1	0	40	10	30	40	30	10	40	10
CS7-30 EC4-21	Industrial Training IRF Simulation Lab	30	1 1	0	40	10	30	40	30	40	40	10 10
C4-21 C4-22 C4-23 C7-30	Digital Signal Processing Lab	30	1	0	40	10	30	40	30 30	10	40	10
C7-30	Microwave Lab Industrial Training	30	1	0	40	10	30	40	30	10 40	40	10 10
E4-21	Power System - I Lab	30	1	0	40	10	30	40	30	10	40	10
E4-22 E4-23	Control System Lab	30		Ô	40	10	30	40	30	10	40	10
E4-23 E4-24	Microprocessor Lab System Programming Lab	30 30		0	40 40	10	30 30	40 40	30 30	10	40	10 10
E7-30	Industrial Training					50				40		10
T4-21 T4-22	Computer Graphics & Multimedia Lab	30	1	0	40	10 10	30	40 40	30	10	40	10 10
T4-23	Compiler Design Lab Analysis of Algorithms Lab	30	1	0	40	10	30 30	40	30 30	10	40	10
T4-24	Advanced Java Lab	30		0	40	10	30	40	30	10	40	10
T7-30 VIE3-21	Industrial Training Mechatronic Lab	30	1 1	0	40	10	30	40	30	40	40	10 10
VIE3-21 VIE4-22	Heat Transfer lab	30	1	0	40	10	30	40	30	10	40	10
/IE4-23	Production Engineering Lab	30 30		0	40 40	10 10	30 30	40 40	30	10	40	10 10
/IE4-24 /IE7-30	Machine Design Practice I Industrial Training		۳	•		50			30	40		10
E4-21 E4-22	Road Material Testing Lab	15		5	20 20	5	15	20 20	15	5	20	50
E4-22	Professional Practices & Field Engineering Soft Skills Lab	15 15	H	5	20	5	15 15	20	15 15	5	20 20 20 20	50
E4-23 E4-24	Environmental Monitoring and Design Lab	15		5	20 20	5	15	20 20	15 15	5	20	50
CE7-30 CE7-40	Practical Training Seminar	-			- 1	75 50				50 40		12 10
2S4-21	Internet of Things Lab	30		0	40	10	30	40	30	10	40	10
S4-21 S4-22 S7-30	Cyber Security Lab Industrial Training	30	1	0	40	10	30	40	30	10 50	40	10
:S/-40	Seminar					50				40		12 10
C4-21	VLSI Design Lab	30		0	40	10	30	40	30	10	40	10
C4-22 C4-23	Advance communication lab (MATLAB Optical Communication Lab	15 15	H	5	20 20	5	15 15	20 20	15 15	5	20 20	50
C7-30	Industrial Training	13	_			75	-10	20	,,,	50		12
C7-30 C7-40	Seminar	20				10	20	40	20	40	10	10
E4-21 E4-22 E7-30 E7-40	Embedded Systems Lab Advance control system lab	30 30		0	40 40	10 10	30 30	40 40	30 30	10	40	10 10
E7-30	Industrial Training					75				10 50		12
E7-40	Seminar Big Data Apalytics Lab	30	1 4	0		10	30	40	30	40	40	10
T4-21 T4-22	Big Data Analytics Lab Cyber Security Lab	30 30		0	40 40	10 10	30 30	40 40	30 30	10 10 50	40 40	10 10
T7-30	Industrial Training	1			7	75				50 40		12
T7-40 VIE4-21	Seminar IFEA Lab	22	1 3	8		8	22	30	22	8	30	10 7:
VIE4-22 VIE4-23	Thermal Engineering Lab II Quality Control Lab	22			30 30	8	22	30	22	8	30 30	7:
VIE4-23 VIE7-30	Quality Control Lab Industrial Training *	15	L.	0	20	5	15	20	15	50	20	50 12
	Seminar *				i	50				40		10
VIE7-40												

8 Department Load Allocation

Section		POORNIMA COLLEG Department of					
Continu		Department of	f In	for	mat		
Castian		Class Wise Load Al	lotr	nen	t Se	ession 202	2-23(ODD)
Section	Subject Code	Subject Name	L	Т	Р	No. of Batches	Faculty Name
Α	3IT2-01	Advanced Engineering Mathematics	4	0	0	3	Dr. Shilpi Jain
Α	3IT1-03	Managerial Economics and Financial Accounting	2	0	0	3	Kalpana Sharma
Α	3IT3-04	Digital Electronics	3	1	0	3	Ghanshyam Singh
Α	3IT4-05	Data Structures and Algorithms	3	0	0	3	Shazia Haque
Α	3IT4-06	Object Oriented Programming	3	0	0	3	Seeta Gupta
Α	3IT4-07	Software Engineering	3	0	0	3	Dr. Nitesh Kaushik
А	3IT4-21	Data Structures and Algorithms Lab	0	0	3	3	Shazia Haque
А	3IT4-22	Object Oriented Programming Lab	0	0	3	3	Amitesh Kumar
Α	3IT4-23	Software Engineering Lab	0	0	3	3	Dr. Nitesh Kaushik
Α	3IT4-24	Digital Electronics Lab	0	0	2	3	Ghanshyam Singh
Α	3IT7-30	Industrial Training/ NSP	0	0	1	3	Shazia Haque, Dr. Gajendra Singh Rajawat
Α	5IT3-01	Microprocessor And Interfaces	3	0	0	3	Ghanshyam Singh
Α	5IT4-02	Compiler Design	4	0	0	3	Dr. Gajendra Singh Rajawat
Α	5IT4-03	Operating System	3	0	0	3	Dr. Sandeep Bhargava
А	5IT4-04	Computer Graphics & Multimedia	4	0	0	3	Seeta Gupta
Α	5IT4-05	Analysis of Algorithms	4	0	0	3	Amitesh Kumar
Α	5IT5-11	Wireless Communication	3	0	0	3	Ghanshyam Singh
А	5IT5-12	Software Testing and Project Management	3	0	0	3	Maina Changeriwal
А	5IT4-21	Computer Graphics & Multimedia Lab	0	0	2	3	Seeta Gupta
Α	5IT4-22	Compiler Design Lab	0	0	2	3	Dr. Gajendra Singh Rajawat
Α	5IT4-23	Analysis of Algorithms Lab	0	0	2	3	Maina Changeriwal
Α	5IT4-24	Advanced Java Lab	0	0	2	3	Dr. Sandeep Bhargava
Α	5IT7-30	Industrial Training/ NSP	0	0	1	3	Dr. Gajendra Singh Rajawat, Dr. Sandeep Bhargava
A	7IT4-01	Big Data Analytics	3	0	0	3	Amol Saxena
A	7IT6- 60.1	Open Elective	3	0	0	3	Tillorsakella
A	7IT4-21	Big Data Analytics Lab	0	0	3	3	Amol Saxena
A	7IT4-22	Cyber Security Lab	0	0	3	3	Maina Changeriwal
A	7IT7-30	Industrial Training	0	0	2	3	Amol Saxena, Seeta Gupta
A	7IT7-40	Seminar	0	0	2	3	Amol Saxena, Seeta Gupta
A	7ITPR	Minor Project	0	0	3	3	Dr. Sandeep Bhargava(3),Shazia Haque(3),Amitesh Kumar (3)

Time Table

9.1 **Orientation Time Table**

II Year Orientation Details Session 2022-23 (Odd Semester)

POORNIMA COLLEGE OF ENGINEERING

Department of Information Technology TIME TABLE -ODD SEM 2022-2023

Orientation Programme (III Semester)

16th -17th August, 2022

Day/	I	II	III		IV	V	VI
Period	8:00-9:00	9:00-10:00	10:00-11:00		11:50-12:50	12:50-1:50	1:50-2:50
TUES 16/08/2 2	Tutor Interaction (Maina Changeriwal AG-03	MOOC/ NPTEL/Add- on Courses (Mr. Shirish Nagar) AG-03	Project /NSP & its Importance (Mr. Amol Saxena) AG-03	LUNCH 11:00-11:50		As per time tab	ble
WED 17/08/2 2	Placements/ GATE (Ms. Seeta Gupta) AG-03	HOD Interaction (Dr.Gajendra Singh Rajawat) AG-03	Industrial Training & its guidelines (Ms. Shazia Haque) AG-03	11.00-11.30		As per time tab	ble

3IT1-03: Managerial Economics and Financial Accounting, 3IT4-05: Data Structures & Algorithms, 3IT3-04: Digital Electronics, 3IT4-05: Data Structures & Algorithms, 3IT4-05 06: Object Oriented Programming, 3IT4-07: Software Engineering, 3IT2-01: Adv. Engg. Mathematics, 3IT4-23: Software Engineering Lab, 3IT4-21: Data Structure Lab, 3IT4-24: Digital Electronics Lab, 3IT4-22: Object Oriented Programming Lab

Seeta Gupta Dr.Gajendra S. Rajawat Pankaj Dhemla Dr. Mahesh Bundele

TT Coordinator, IT HoD, IT Vice Principal, PCE Director, PCE

Stapura, JAIPL

131-6, RIICO Institutional Area

III Year Orientation Details Session 2022-23 (Odd Semester)

POORNIMA COLLEGE OF ENGINEERING

Department of Information Technology TIME TABLE -ODD SEM 2022-2023

Orientation Programme (V Semester) 19-20 September, 2022

Day/	I	II	III		IV	V	VI
Period	8:00-9:00	9:00-10:00	10:00-11:00		11:50-12:50	12:50-1:50	1:50-2:50
MON 19/09/2 2	Tutor Interaction (Ms. Shazia Haque) AG-03	MOOC/ NPTEL/Add- on Courses (Dr. Nitesh Kaushik) AG-03	Project /NSP & its Importance (Mr. Amol Saxena) AG-03	LUNCH 11:00-	As	per time t	able
TUE 20/09/2 2	Placements/ GATE (Ms. Seeta Gupta) AG-03	HOD Interaction (Dr.Gajendra Singh Rajawat) AG-03	Industrial Training & its guidelines (Dr. Sandeep Bhargava) AG-03	11:50	As	per time t	able

5IT3-01: Microprocessor And Interfaces, 5IT4-02: Compiler Design, 5IT4-03: Operating Systems, 5IT4-04: Computer Graphics & Multimedia, 5IT4-05: Analysis of Algorithms, 5IT5-11: Wireless Communication, 5IT5-12: Software Testing and Project Management, 5IT4-21: Computer Graphics & Multimedia Lab, 5IT4-22: Compiler Design Lab, 5IT4-23: Analysis of Algorithms Lab, 5IT4-24: Advanced Java Lab

Seeta Gupta Dr.Gajendra S. Rajawat TT Coordinator, IT HoD, IT

Pankaj Dhemla Dr. Mahesh Bundele Vice Principal, PCE Director, PCE

Stapura, JAIPUR

9.2 Academic Time Table

POORNIMA				IMA COLLEGE (MENT OF INFORM.	ATION TECHN		T	Location: AG-04 W utor Name:Ms. Mai	
	1 8:00 - 9:00	9:00 - 10:00	3	LUNCH 11:00 - 11:50	4 11:50 - 12	2:50	5 12:50 - 13:50	6 13:50 - 14:50	7 14:50 - 15:50
Mon	31T4-06 OOPS	3IT4-05 DSA Ms. Shazia haque	3IT4-07 SE Dr. Nitesh Kaushik		31T4-0	-	3IT1-03 MEFA	3IT4-07 SE Dr. Nitesh Kaushik	Add on Course
	Ms. Seeta Gupta				Ms. See	ta Gupta	Ms.Kalpana Sharma		
Tues	AG-25A		Batch 1 -21 DSA Lab Ms. Shazia haque Batch 2 -22 OOP Lab		3IT4-(31T7-30 cm1 Industrial Training / N	3IT3-04 DE	NSP
	AG-25C		Mr. Amitesh Kumar Batch 3 74-23 SE Lab		OOPS		31T7-30 ····································		
	AG-25B		Dr. Nitesh Kaushik		Ms. See	ta Gupta	Lique	Mr. Ghanshyam Singh	
	3IT4-05 DSA Ms. Shazia haque	3IT2-01 AEM Dr.Shilpi Jain			AG-25B		3IT4-	Batch 1 22 OOP Lab Mr. Amitesh Kurnar	
Wed			3IT1-03 MEFA	LUNCH	AG-01		3IT	Batch 2 4-23 SE Lab Dr. Nitesh Kaushik	Add on Course
			Ms.Kalpana Sharma		AT-01		Batch 3 3IT4-24 DE Lab Mr. Ghanshyam Singh	31T3-04 DE Tet.	
	3IT4-05 DSA Ms. Shazia haque	3IT2-01 AEM Dr.Shilpi Jain			AT-01		Batch 1 3IT4-24 DE Lab Mr. Ghanshyam Singh	3IT3-04 DE Tet.	
Thur			3IT3-04 DE		AG-25C			21 DSA Lab Ms. Shazia haque	NSP
			Mr. Ghanshyam Singh		AG-25A		3IT4-	Batch 3 22 OOP Lab Mr. Amitesh Kumar	
	3IT2-01 AEM Dr.Shilpi Jain		31T4-07 SE Dr. Nitesh Kaushik		AG-25A			Batch 1 4-23 SE Lab Dr. Nitesh Kaushik	
Fri		3IT3-04 DE			AT-01		Batch 2 3IT4-24 DE Lab Mr. Ghanshyam Singh	Mode by	Add on Cours
		Mr. Ghanshyam Singh			AG-25B		3IT4-	21 DSA Lab Ms. Shazia haque	
Sat		I3 Activity					I3 Ad	ctivity	

Time Table Coordinators , HOD, Vice Principal, Director PCE

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POORNIMA	D		NT OF INFO	EGE OF ENGINEERING PRMATION TECHNOLO In Sem	GY		Class Location: AG-03	WEF: 16.08.2022 Tutor N	ame:Ms. Shazia Haqi
	1 8:00 - 9:00	2	10:00	3 10:00 - 11:00	LUNCH 11:00 - 11:50	4 11:50 - 12:50	5 12:50 - 13:50	6 13:50 - 14:50	7 14:50 - 15:50
Mon	Group 1 51T5-11 WCN AGE H. Clarker Sink Group 2 51T5-12 STPM No. Hale Chaptered	9:00 AG-25C AG-25B		Batch 1 5IT4-22 CD Lab Dr. Gajendra Singh Rajawat Batch 2 5IT4-23 AOA Lab Ms. Maina Changeriwal Batch 3 5IT4-21 CGM Lab		51T4-05 AOA Mr. Amitesh Kumar	5IT3-01 M & I Mr. Ghanshyam Singh	51T4-05 AOA Mr. Amikesh Kumar	Add on Course
Tues	Group 1 51T5-11 WCN 6-12 Hr. Startfur lint Group 2 51T5-12 STPM Hr. Him Chapting	5IT3-01 Mr. Ghanshya		5IT4-02 CD Dr. Gajendra Singh Rajawat		5IT3-01 M & I Mr. Ghanshyam Singh	51T4-04 CGM Ms. Seeta Gupta	51T4-02 CD Dr. Gajendra Singh Rajawat	NSP
Wed	Group 1 51T5-11 WCN AGAR He Charten Sint Group 2 51T5-12 STPM He Hale Chargeinst		Batch 1 SIT4-24 Adv. Dr. Sandeep Bl			5 T4-02 CD Dr. Gajendra Singh Rajawat	5IT4-03 OS Dr. Sandeep Bhargava	51T4-04 CGM Ms. Seeta Gupta	Add on Course
Thur	51T7-30°·····¹ Industrial Training / N S 51T7-30°····² Industrial		Batch 3 5IT4-24 Adv. Dr. Sandeep Bl	Batch 1 5174-23 ACA Lab Ms. Maina Changeriwal Batch 2 5174-21 CGM Lab Ms. Seeta Gupta	LUNCH	51T4-02 CD Dr. Gajendra Singh Rajawat	5IT4-03 OS Dr. Sandeep Bhargava	51T4-04 CGM Ms. Seeta Gupta	NSP
Fri	51T4-05 AOA Mr. Amitesh Kumar	AG-25A AG-25B	Batch 2 51T4-24 Adv. Dr. Sandeep Bl	Batch1 5IT4-21CGMLab Ms. Seeta Gupta Java Lab		51T4-04 CGM Ms. Seeta Gupta	5IT4-05 AOA Mr. Amitesh Kumar	51T4-03 OS Dr. Sandeep Bhargava	Activity
Sat		I3 Act	tivity				13 A	ctivity	
			Tir	ne Table Coordina	tors , HOD, Vice	l Principal, Director F	PCE		

POORNIMA		POORNIMA COLLE DEPARTMENT OF INFO VIIt					tion: AG-01 WEF: 16 Name:Ms. Seeta Gu	
	1 8:00 - 9:00	9:00 - 10:00	3 10:00 - 11:00	LUNCH 11:00 - 11:50	4 11:50 - 12:50	5 12:50 - 13:50	6 13:50 - 14:50	7 14:50 - 15:50
		7IT4-01 BDA Mr. Amol Saxena	7IT4-01 BDA Mr. Amol Saxena		AG-25B	7ITPR Minor Dr. Sandeep Bharg		
Mon	7IT6-60.1 OE				AG-25C	Patch 2 7IT4-22 CS Ms. Maina Change		Activity
			Count		AG-25A	Batch 3 7IT4-21 BD Mr. Amol Saxer Batch 1		
		71T7-30*****1 Industrial Trainin g	Group 1 71T7-40 Seminar		AG-25C	7IT4-21 BD. Mr. Amol Saxer		
Tues	7IT6-60.1 OE	7177-300	Group 2		AG-25A	Batch 2 7ITPR Minor Mr. Amitesh Kurr	Project	Activity
		Industrial	71T7-40 Seminar		AG-25B		4-22 CS Lab Ms. Maina Changeriwal	
		Group 1 71T7-40 Seminar	7IT4-01 BDA Mr. Amol Saxena		AG-25A	Batch 1 7IT4-22 CS Ms. Maina Change		
Wed	7IT6-60.1 OE	Group 2	7	LUNCH	AG-25C	Batch 2 7IT4-21 BD Mr. Amol Saxer		Activity
		7IT7-40 Seminar			AG-02	Batch 3 7ITPR Minor Ms. Shazia haqu		
Thur								
Fri								
Sat								
	92E	Ti	me Table Coordina	tors, HOD, Vice	Principal, Direc	ctor PCE	6 <u>*</u> 6	

10 Course Outcome Attainment Process:

10.1 Course Outcome Attainment Process

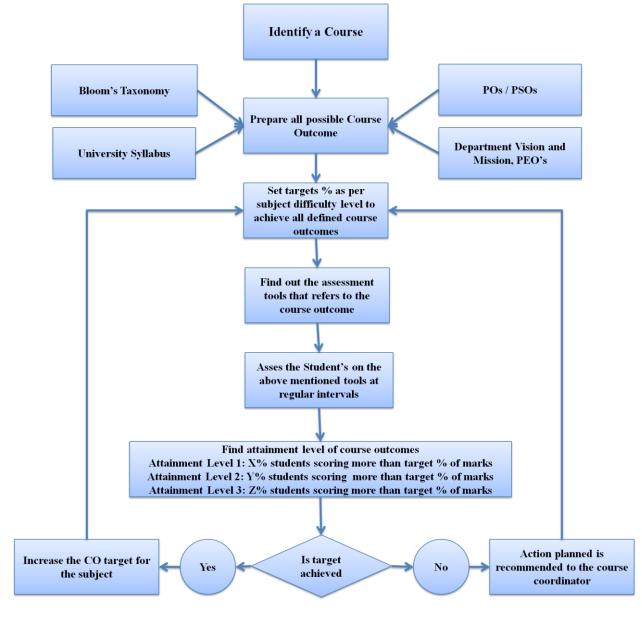


Figure. Course Outcome Attainment Process

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10.2 List of CO & CO mapping with PO

10.2		Course Name		<u> </u>	P	P	P	P	P	P	P	P	P	P	P	P	PS	PS	PS
S.	Co	Course Name	CO No.	Course Outcomes	01	02	03	04	05	06	07	08	09	01	01	01	0	0	0
N	ur		NO.		::	:	:	:	:	:	:	:	:	0:	1:	2:	1:	2:	3:
0.	se Co				the kn	Pr obl	De sig	Co nd	M od	Th e	En vir	Et hic	In div	Co m	Pr oje	Lif e-	De sig	Ex hib	Ap ply
1	1F	Engineering	CO1	Students will be able to apply basic concepts	3	2	1						2.3		-4	i		-:4	41
1	Y2	Mathematics-	COI	and properties of definite integrals, beta and)		1	_	_	_	_	_	-	-	_	_	_	_	_
	12	T Wrathematics-																	
	01	1		gamma function to solve practical problems in science and engineering field.															
	UI		CO2	Students will be able to explain and identify	2	3										_		_	
			CO2	convergence of sequence and series and lay		3	_	-	-	_	-	_	-	_	-	-	-	-	_
				down foundation for further investigations in															
				signal processing.															
			CO3	The students will be able to analyze the	2	3	1	_	_	_		_						_	
			003	spectral characteristics of periodic functions		3	1	_	_	_	_	_	-	-	_	_	_	_	_
				by using Fourier series representation.															
				by using Fourier series representation.															
			CO4	Students will be able to evaluate partial	3	2	1	_	_	_	_	_	l _	<u> </u>	_	_	_	_	_
			CO+	derivatives and apply to estimate maxima and)	2	1	_	_	_		_				_	_	_	_
				minima of multivariable function.															
				minima of multivariable function.															
			CO5	Students will be able to apply multiple	3	2	1	_	_	_	_	_	-	-	_	_	_	_	_
				integrals for regions in the plane to evaluate		_	_												
				surface area, volume, area of the region															
				bounded by curves, mass, centre of gravity of															
					2.	2.	1.	_	-	-	-	-	-	-	-	-	-	-	-
					6	4	0												
					0	0	0												
2	1F	Engineering	CO1	Describe characteristics of water, fuel and	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y2	Chemistry		Engineering materials															
	-																		
	03																		
			CO2	Determine of hardness of water and calorific	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				value of fuels for Industrial as well as															
				domestic purposes															
			~~~																
			CO3	Compare different techniques of water	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				treatment, fuel analysis, Manufacturing of															
				engineering materials and corrosion												1		Z	
				protection methods										L	< O	1	1-		

			CO4	Prepare the generic drugs or medicines by understanding the applications of organic reaction mechanism and manufacturing of engineering materials	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
					2. 0 0	2. 0 0	-	-	-	-	-	-	-	-	-	-	-	-	-
3	1F Y1 - 04	Communicati on Skills	CO1	Describe the process of communication, basics of Grammar and Writing and Literary Aspects	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
			CO2	Explain the types of communication, barriers and channels of communication and the concept of Literature through Short Stories and poetry	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-
			CO3	Write and prepare professional reports, paragraph and business letters with the correct use of grammar	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
			CO4	Discuss and illustrate the impact of social and moral values by implying the basics of English Writing Skills through literary aspects	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
			CO5	Restate and outline the basic areas of English Language Skills with the applications of literature	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
					-	-	-	-	-	-	-	2. 0 0	-	2. 0 0	-	2. 0 0	-	-	-
4	1F Y3 - 07	Basic Mechanical Engineering	CO1	Describe concepts of thermal, functional design of machine elements, materials and primary manufacturing process.	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
			CO2	Classify different types of turbines and power plants, pumps and IC engines, refrigeration system, transmission of power, engineering materials and primary manufacturing	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-

CO4   Examine about the turbine & pumps, IC   -   1   -   -   -   -   -   -   -   -				CO3	Apply the fundamental knowledge of thermal engineering, in addition to understanding of materials and primary manufacturing process to solve the industrial and societal issues.	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-
Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution				CO4	Examine about the turbine & pumps, IC engines, refrigeration system, modes of transmission of power, materials and primary	-	1	-	-	-	-	-	-	-	-	-	-	-	2	1
Y3   Electrical Engineering						0	0	-	-	-	-	-	-	-	-	-	-	1. 6 7	2. 0 0	1. 0 0
CO2 Explain electromechanical energy conversion process  CO3 Classify characteristics of various power electronic devices.  CO4 Identify knowledge of protective devices and energy consumption calculations.  CO4 Identify knowledge of protective devices and energy consumption calculations.  CO5 Identify knowledge of protective devices and energy consumption calculations.	5	Y3	Electrical	CO1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4 Identify knowledge of protective devices and energy consumption calculations.  2. 2				CO2	1	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-
energy consumption calculations.  2. 2				CO3		3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 1F Engineering CO1 Determine the strength of unknown solution by volumetric analysis.				CO4		-	2	-	-	-	-	-	-	-	-	-	-	2	-	-
Y2 Chemistry by volumetric analysis.						0	0	-	-	-	-	-	-	-	-	-	-	1. 5 0	-	-
	6	Y2		CO1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				CO2		-	-	-	-	-	-	-	-	2	-	-	-	-	-	-

			CO3	Analyze different characteristics of water and fuel to solve societal and enviornmental problems	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
			CO4	Students will show an ability to work as a team member ethically	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-
					1. 0 0	-	-	-	-	-	2. 0 0	2. 0 0	2. 5 0	-	-	-	-	-	-
7	1F Y1 - 22	Language Lab	CO1	Use and pronounce the words correctly.	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
			CO2	Acquire knowledge of the correct expressions,vocabulary etc. in personal and professional lives.	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
			CO3	Plan successfully for leadership and teamwork, crack GD's, interviews and other professional activities.	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
			CO4	Synthesize the process of communication using LSRW.	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
					-	-	-	-	-	-	-	-	2. 0 0	2. 0 0	-	-	-	-	-
8	1F Y3 - 26	Basic Electrical Engineering Lab	CO1	Discuss measurement of electrical quantites	1	-	-	-	-	-	-	-	-	-	-	-	1	2	-
			CO2	Compare different connections of transformer	2	-	-	-	-	-	-	-	-	-	-	-	1	2	-
															1			1	

			CO3	Demonstrate constructional features of electrical machines and converters	3	-	-	-	-	-	-	-	-	-	-	-	2	2	-
			CO4	Students will show an ability to communicate effectively and work as a team member ethically	-	-	-	-	-	-	-	2	3	2	-	-	-	-	-
					2	-	-	-	-	-	-	2	3	2	-	-	1. 3 3	2	-
9	1F Y3 - 25	Manufacturin g Practices Workshop	CO1	Describe the working of Lathe machine.	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
			CO2	Apply the basic concepts of Foundry Shop	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-
			CO3	Develop various carpentry joints, welding joints and sheet metal objects.	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-
			CO4	Students will show an ability to work as a team member ethically	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-
					1. 5 0	2. 0 0	-	-	-	-	-	2. 0 0	3. 0 0	-	-	-	1. 0 0	-	-
10	1F Y3 - 28	Computer Aided Engineering Graphics	CO1	Describe engineering drawing terminology, concept of scales and conic sections.	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
		Grapmes	CO2	Draw Projection of Points, lines, planes, solids and section of solids	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-
															10	7			

			CO3	Draft 2D engineering problems on CAD software.	-	-	-	-	3	-	-	-	-	-	-	-	-	1	1
			CO4	Students will show an ability to work as a team member ethically	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-
					1. 0 0	1. 0 0	-	-	3. 0 0	-	-	2. 0 0	3. 0 0	-	-	-	1. 5 0	1. 0 0	1. 0 0
21	3I T1 - 03	Managerial Economics and Financial Accounting	CO1	Describe the fundamental concepts of Economics and Financial Management and define the meaning of national income, demand, supply, cost, market structure, and	-	-	-	-	-	1	-	-	-	2	3	-	-	ı	-
			CO2	Calculate the domestic product, national product and elasticity of price on demand and supply.	-	2	-	-	-	-	-	-	-	-	3	-	-	1	1
			CO3	Draw the cost graphs, revenue graphs and forecast the impact of change in price in various perfect as well as imperfect market structures.	3	-	2	-	-	-	-	-	-	-	-	-	-	-	1
			CO4	Compare the financial statements to interpret the financial position of the firm and evaluate the project investment decisions.	-	3	-	2	-	-	-	-	-	-	3	-	-	-	1
					3. 0 0	2. 5 0	2. 0 0	2. 0 0	-	1. 0 0	-	-	-	2. 0 0	3. 0 0	-	-	•	1. 0 0
22	3I T4 - 05	Data Structures and Algorithms	CO1	Define and compare various Linear and Non- Linear Data Structures along with their applications.	-	-	3	2	-	-	-	-	-	-	2	2	2	1	-
		<b>9</b>	CO2	Explain the memory representation of arrays, linked lists, stacks, queues, trees, and graphs; and apply various operations on these data structures.	-	-	-	3	-	-	-	-	-	-	2	2	3	1	1

			CO3	Choose appropriate data structure for the specified problem definition and compare the benefits of dynamic and static implementation of data structures.	-	-	3	2	-	-	-	-	-	-	2	3	3	-	1
			CO4	Select appropriate sorting and searching technique for an application and explain the concept of Hashing.	-	-	3	2	-	-	-	-	-	-	-	2	3	-	1
					-	-	3. 0 0	2. 2 5	-	-	-	-	-	-	2. 0 0	2. 2 5	2. 7 5	1. 0 0	1. 0 0
23	3I T3 - 04	Digital Electronics	CO1	Describe number representation and conversion between different number representation.	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
			CO2	Apply different simplification methods for digital logic .	3	3	-	-	-	-	-	-	-	-	-	2	-	-	2
			CO3	Compare various logic family.	3	3	-	-	-	-	-	-	-	-	-	2	2	-	-
			CO4	Design sequential and combinational logic circuit for given problem.	3	3	-	-	-	-	-	-	-	-	-	2	-	2	-
					3. 0 0	3. 0 0	-	-	-	-	-	-	-	-	-	2. 0 0	2. 0 0	2. 0 0	2. 0 0
24	3I T4 - 06	Object Oriented Programming	CO1	Explain basic object oriented programming concepts and principles through C++ language.	3	3	-	-	-	-	-	-	-	-	-	2	-	-	-
			CO2	Apply the concepts of classes and objects while designing applications.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
															1				

			CO3	Identify the need to use memory handling and pointer concepts in various applications.	3	-	-	-	-	-	-	-	-	-	-	-	3	-	-
			CO4	Assess the types of Inheritance according to the need of application designing.	-	3	-	-	-	-	-	-	-	-	-	2	-	3	-
			CO5	Construct the applications using generic programming, exception handling and file handling.	-	3	-	-	-	-	-	-	-	-	-	-	-	-	3
					3. 0 0	3. 0 0	-	-	-	-	-	-	-	-	-	2. 0 0	3. 0 0	3. 0 0	3. 0 0
25	3I T4 - 07	Software Engineering	CO1	Plan software development life cycle, including the specification, design, implementation, and testing of software systems that meet specification, performance,	-	3	2	-	-	-	-	-	-	-	-	2	-	3	2
			CO2	Able to use engineering tools necessary for software project management, evaluate cost estimation and risk analysis.	-	3	2	-	-	-	-	-	-	-	-	-	3	2	-
			CO3	Identify and outlines the engineering process of software requirement analysis.	3	3	3	-	-	-	-	1	-	-	-	2	3	3	3
			CO4	Analyze and translate a specification into design, and then realize that design practically, using an appropriate software engineering methodology.	2	3	3	2	-	-	-	2	-	-	2	3	3	3	3
			CO5	Explain the object- oriented software development process.	3	3	3	3	3	-	-	2	-	-	2	2	3	2	2
					2. 6 7	3. 0 0	2. 6 0	2. 5 0	3. 0 0	-	-	1. 6 7	-	-	2. 0 0	2. 2 5	3. 0 0	2. 6 0	2. 5 0

26	3I T2 - 01	Advanced Engineering Mathematics	C01	Describe probability models using probability mass (density) functions ,need and classification of optimization terminology.	2	2	3	3	3	-	-	2	-	-	3	3	2	2	3
			CO2	Determine the probability distributions of discrete and continuous random variables and work binomial, Poisson, uniform, exponential, normal distribution and their statistical	2	3	3	2	-	-	-	-	-	-	2	3	2	2	3
			CO3	Interpret the correlation between two variables and regression applications for purposes of description and prediction.	3	2	2	-	-	-	-	-	-	-	-	1	2	-	1
			CO4	Create mathematical models of the real world problems in optimization. For example: Finance, Budgeting, Investment, Transportation, Traveling salesman and many	3	3	2	2	-	-	-	-	-	-	-	1	2	-	-
			CO5	Solve Assignments and transportation problems using linear programming methods.	3	2	2	2	-	-	-	-	-	-	-	1	2	-	-
					2. 6 0	2. 4 0	2. 4 0	2. 2 5	3. 0 0	-	-	2. 0 0	-	-	2. 5 0	1. 8 0	2. 0 0	2. 0 0	2. 3 3
27	3I T4 - 23	Software Engineering Lab	CO1	Develop a systematic, disciplined and quantifiable approach to the development, operation and maintenance of software.	3	3	3	3	-	-	-	-	-	-	-	1	2	-	1
			CO2	Develop Software Requirements Specification	3	2	2	2	_	_	_	-	-	-	-	1	3	-	2
				(SRS) for a given problem.	3	2	2	2											
			C03		-	2	2	-	-	-	-	-	2	-	2	2	3	2	2
			CO3	(SRS) for a given problem.  Use appropriate CASE tools in the software	-				-	-	-	-	2	-	2	2	3	2	2

			CO5	Develop projects using object-oriented design and UML.	-	2	2	-	-	-	-	-	2	-	3	2	3	3	2
					3. 0 0	2. 4 0	2. 4 0	2. 5 0	-	-	-	-	2. 0 0	-	2. 3 3	1. 8 0	2. 8 0	2. 3 3	1. 7 5
28	3I T4 - 21	Data Structures and Algorithms	CO1	Compare and implement elementary data structures such as stacks, queues, linked lists, trees and graphs.	-	3	3	-	2	-	-	-	2	-	3	3	-	-	2
		Lab	CO2	Identify the appropriate data structure for a given problem.	-	3	2	-	2	-	-	-	2	-	2	2	2	2	3
			CO3	Select and implement appropriate sorting/searching technique for given problem.	-	-	2	1	-	-	-	-	-	-	1	1	3	2	1
			CO4	Implement various operations like creation, insertion, deletion and traversal on Linear and Non-Linear data structures.	-	2	3	-	-	-	-	-	-	-	-	1	2	2	1
					-	2. 6 7	2. 5 0	1. 0 0	2. 0 0	-	-	-	2. 0 0	-	2. 0 0	1. 7 5	2. 3 3	2. 0 0	1. 7 5
29	3I T4 - 24	Digital Electronics Lab	CO1	Understand Digital Circuits & Systems	-	-	3	-	-	-	-	-	-	-	-	1	-	2	-
			CO2	Verify truth tables of basic logic gates.	-	2	2	-	-	-	-	-	-	-	-	2	-	-	2
			CO3	Realize and verify different types of logic gates.	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-

			CO4	Realize different types of Combinational and Sequential circuits	-	-	3	2	2	-	-	-	-	-	3	3	-	2	-
					-	2. 0 0	2. 6 7	2. 0 0	2. 0 0	-	-	-	-	-	3. 0 0	2. 0 0	2. 0 0	2. 0 0	2. 0 0
30	3I T4 - 22	Object Oriented Programming Lab	CO1	Demonstrate the knowledge of C++ programming language (its syntax, characteristic), objects and class concepts, and different Types of conversion techniques in	-	-	3	2	2	-	-	-	-	-	3	3	3	-	-
			CO2	Apply different memory allocation techniques and functions in C++	-	-	3	3	2	-	-	-	-	-	3	3	-	3	-
			CO3	Implement Inheritance concept in C++ programming model	-	-	3	2	-	-	-	-	-	-	3	3	-	-	3
			CO4	Formulate abstract classes with help of polymorphism in C++	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2
					-	-	3. 0 0	2. 3 3	2. 0 0	-	-	-	-	-	3. 0 0	3. 0 0	3. 0 0	3. 0 0	2. 5 0
31	3I T7 - 30	Industrial Training	CO1	Identify the importance of emerging technologies and advancements	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO2	Explain the theoretical aspects directly viewing development and other activity in industry and can decide his/her career.	-	3	-	-	-	-	-	-	-	-	-	-	-	-	2
			CO3	Develop the practical skill, team work and ethical thinking while working in industry.	-	-	-	-	-	-	-	3	3	-	-	-	-	2	-

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			CO4	Communicate effectively through technical presentation, report and interactions.	-	-	-	-	-	2	-	-	-	3	-	-	2	-	-
			CO5	Present and demonstrate the report using modern tools.	-	-	-	-	3	-	-	-	-	-	-	-	2	-	-
					3. 0 0	3. 0 0	-	-	3. 0 0	2. 0 0	-	3. 0 0	3. 0 0	3. 0 0	-	-	2. 0 0	2. 0 0	2. 0 0
43	5I T3 - 01	Microprocesso r And Interfaces	CO1	Describe the architecture and organization of Microprocessor along with Instruction Set format.	-	3	-	-	-	-	-	-	-	-	-	-	-	2	-
			CO2	Illustrate the operation of various instructions and addressing modes.	-	3	-	-	-	-	-	-	-	-	-	-	-	-	2
			CO3	Compare the various interrupts and Delay Techniques.	-	-	3	-	-	-	-	-	-	-	-	-	2	-	-
			CO4	Develop assembly language program using various programming tools for given problem.	-	-	3	-	-	-	-	-	-	-	-	-	-	2	-
			CO5	Design Interfacing of Microprocessor with External Device.	-	-	-	3	-	-	-	-	-	-	-	-	-	-	2
					-	3. 0 0	3. 0 0	3. 0 0	-	-	-	-	-	-	-	-	2. 0 0	2. 0 0	2. 0 0
44	5I T4 -	Compiler Design	CO1	Describe the phases of the compilation process and other implicit phase specific procedures	-	3	-	-	-	-	-	-	-	-	-	2	2	2	-

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	02		CO2	Compare different parsing methods, error handling methods, and parameter parsing approaches	-	-	3	-	-	-	-	-	-	-	-	2	3	2	2
			CO3	Examine basic block and its control flow, TAC, DAG representation, optimizations sources, methods of code generation	-	-	3	-	-	-	-	-	-	-	-	-	2	2	-
			CO4	Analyze syntax directed definition, storage allocation, parameter passing and data structures using symbol tables	-	-	3	-	-	-	-	-	-	-	-	2	3	2	-
			CO5	Create compiler programs using YACC and Lex thereby constructing Lexical Analyzers and Parsers.	-	-	3	-	-	-	-	-	-	-	-	-	3	2	-
					-	3. 0 0	3. 0 0	-	-	-	-	-	-	-	-	2. 0 0	2. 6 0	2. 0 0	2. 0 0
45	5I T4 - 03	Operating System	CO1	Describe the characteristics of different structures of the operating systems and identify the core functions of the operating systems.	3	-	-	-	-	-	-	-	-	-	-	-	2	-	2
			CO2	Interpret features and strengths of various contemporary operating systems (UNIX, Linux and Mobile OSs).	2	3	-	-	-	-	-	-	-	-	-	2	-	3	-
			CO3	Apply methods to solve basic problems related to core functioning of OS such as synchronization, scheduling, deadlocks, memory management, file management etc.	-	-	3	-	-	-	-	-	-	-	-	2	3	-	-
			CO4	Analyze and evaluate various policies and algorithms used for the management of processes, resource control, physical and virtual memory, scheduling, I/O and files.	-	-	3	-	-	-	-	-	-	-	-	2	-	-	3
					2. 5 0	3. 0 0	3. 0 0	-	-	-	-	-	-	-	-	2. 0 0	2. 5 0	3. 0 0	2. 5 0

46	5I T4 - 04	Computer Graphics & Multimedia	CO1	Understand the concept of different display techniques, 2D & 3D,Co-ordinate system and primitive drawing components like line, circle etc.	-	3	3	-	-	-	-	-	-	-	-	2	3	-	2
			CO2	Use geometric transformations on graphics objects and their application in composite form.	-	2	2	-	-	-	-	-	-	-	-	2	3	2	3
			CO3	Apply visible surface detection methods in 3D objects.	-	3	3	-	-	-	-	-	-	-	-	2	3	2	3
			CO4	Compare Illumination color models and clipping techniques to graphics application.	-	3	3	-	-	-	-	-	-	-	-	2	3	-	-
			CO5	Implement the concept and applications of multimedia in computer animation.	-	3	3	-	-	-	-	-	-	-	-	2	-	-	3
					-	2. 8 0	2. 8 0	-	-	-	-	-	-	-	-	2. 0 0	3. 0 0	2. 0 0	2. 7 5
47	5I T4 - 05	Analysis of Algorithms	CO1	Explain design techniques of algorithm and concepts of complexity and Notations	-	3	3	2	-	-	-	-	-	-	-	-	3	-	2
	03		CO2	Analyze and evaluate time complexity of different computational problems in worst, best and average case	2	3	3	3	-	-	-	-	-	-	-	-	3	-	2
			CO3	Choose appropriate algorithm design techniques and formulate the solution of different computational problems.	2	3	3	3	-	-	-	-	-	-	-	-	3	-	2
			CO4	Design algorithmic solution to solve the computational problems using divide & conquer, Greedy, Dynamic Programming, Pattern Matching, Branch & Bound &	2	3	3	3	-	-	-	-	-	-	-	-	3	-	2

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					2. 0 0	3. 0 0	3. 0 0	2. 7 5	-	-	-	-	-	-	-	-	3. 0 0	-	2. 0 0
48	5I T5 - 12	Software Testing and Project Management	CO1	Define and explain software project management concepts like project planning, organizing project teams, and roles of a Project Manager.	-	2	3	2	-	-	-	-	-	-	2	2	2	1	-
			CO2	Estimate effort and duration and calculate software size.	-	-	3	-	-	-	-	-	-	-	2	2	3	1	1
			CO3	Define and compare Black Box and White Box Testing.	-	-	3	2	-	-	-	-	-	-	2	3	3	-	1
			CO4	Explain various types of testing techniques and design test cases.	-	-	3	2	-	-	-	-	-	-	-	2	3	-	1
					-	2. 0 0	3. 0 0	2. 0 0	-	-	-	-	-	-	2. 0 0	2. 2 5	2. 7 5	1. 0 0	1. 0 0
49	5I T4 - 21	Computer Graphics & Multimedia Lab	CO1	Write programs to draw two dimensional images using OpenGL.	-	2	2	3	-	-	-	-	-	-	-	2	2	2	2
			CO2	Implement algorithms for line, ellipse and circle drawing using OpenGL.	-	3	3	2	3	-	-	-	-	-	-	2	3	-	2
			СОЗ	Demonstrate algorithms of clipping of Images.	-	2	2	2	3	-	-	-	-	-	-	2	3	2	3
			CO4	Implement basic transformations on objects using OpenGL.	-	3	2	2	3	-	-	-	-	-	-	2	3	2	3

			CO5	Apply the concept of Color Generation on objects.	-	2	3	3	3	-	-	-	-	-	-	2	3	2	2
					-	2. 4 0	2. 4 0	2. 4 0	3. 0 0	-	-	-	-	-	-	2. 0 0	2. 8 0	2. 0 0	2. 4 0
50	5I T4 - 22	Compiler Design Lab	CO1	Analyze various system programming concepts, by designing a lexical analyzer for pattern recognition in C Language	-	-	3	2	3	-	-	-	-	-	-	2	3	2	2
			CO2	Design programs to implement different parsing approaches thereby implementing parse tables.	-	-	3	2	-	-	-	-	-	-	-	2	3	2	-
			CO3	Construct a program for generating for various intermediate code forms, especially TAC, and Polish code.	-	-	3	2	-	-	-	-	-	-	-	2	2	2	2
			CO4	Create various storage allocation strategies, parameter passing and data structures using symbol tables	-	-	3	-	-	-	-	-	-	-	-	2	3	2	-
			CO5	Create a Lexical Analyzer using LEX, and language processor development using YACC.	-	3	2	2	3	-	-	-	-	-	-	2	3	2	2
					-	3. 0 0	2. 8 0	2. 0 0	3. 0 0	-	-	-	-	-	-	2. 0 0	2. 8 0	2. 0 0	2. 0 0
51	5I T4 - 23	Analysis of Algorithms Lab	CO1	Analyze the time complexity of algorithm & synthesize efficient algorithms.	-	3	3	3	3	-	-	-	-	-	-	-	3	-	-
	23		CO2	Implement programs for classical sorting, searching problems using various design techniques of algorithm	-	3	3	3	2	-	-	-	-	-	-	3	3	-	2

			CO3	Implement programs for optimization and graph problems using various design techniques of algorithm	-	3	3	3	2	-	-	-	-	-	-	3	3	-	3
			CO4	Synthesize efficient algorithms for sorting, optimization, graph based problems	-	3	3	3	3	-	-	-	-	-	-	3	3	-	-
					-	3. 0 0	3. 0 0	3. 0 0	2. 5 0	-	-	-	-	-	-	3. 0 0	3. 0 0	-	2. 5 0
52	5I T4 - 24	Advanced Java Lab	CO1	Create a Swings application with GUI components and design Java Applet programs	-	3	-	-	2	-	-	-	-	-	-	2	2	-	-
			CO2	Connect a web application to a database using JDBC drivers, and construct Client Server programs	-	3	-	-	2	-	-	-	-	-	-	2	2	-	-
			CO3	Apply Java RMI to write distributed applications, and incorporate JNDI lookup and Object serializations.	-	-	3	-	3	-	-	2	-	-	-	-	3	2	2
			CO4	Analyze J2EE Architecture and develop programs to implement Java Servlets and Session Handling	-	-	3	2	3	-	-	2	-	-	-	2	2	3	3
			CO5	Design an application using JSP pages with XML tab library and integration of SQL functions.	-	-	3	2	3	-	-	2	-	-	-	2	3	3	3
					-	3. 0 0	3. 0 0	2. 0 0	2. 6 0	-	-	2. 0 0	-	-	-	2. 0 0	2. 4 0	2. 6 7	2. 6 7
53	5I T7 -	Industrial Training	CO1	Identify the importance of emerging technologies and advancements	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-

	30		CO2	Explain the theoretical aspects directly viewing development and other activity in industry and can decide his/her career.	-	3	-	-	-	-	-	-	-	-	-	-	-	-	2
			CO3	Develop the practical skill, team work and ethical thinking while working in industry.	-	-	-	-	-	-	-	3	3	-	-	-	-	2	-
			CO4	Communicate effectively through technical presentation, report and interactions.	-	-	-	-	-	2	-	-	-	3	-	-	2	-	-
			CO5	Present and demonstrate the report using modern tools.	-	-	-	-	3	-	-	-	-	-	-	-	2	-	-
					3.	3.	-	-	3.	2.	-	3.	3.	3.	-	-	2.	2.	2.
					0	0			0	0		0	0	0			0	0	0
					0	0			0	0		0	0	0			0	0	0
65	7I T4 - 01	Big Data Analytics	CO1	Understand the key issues in big data management and its associated applications in intelligent business and scientific computing.	3	-	-	-	-	-	-	-	-	-	-	-	3	-	-
			CO2	Differentiate various big data technologies like Hadoop, MapReduce, Pig, Hive, Hbase and No-SQL	-	3	-	-	-	-	-	-	-	-	-	-	-	3	-
			CO3	Apply tools and techniques to analyze Big Data	-	3	-	-	3	-	-	-	-	-	-	-	-	-	3
			CO4	Design a solution for a given problem using suitable Big Data Techniques	-	-	3	-	3	-	-	-	-	-	-	-	-	-	3
					3. 0 0	3. 0 0	3. 0 0	-	3. 0 0	-	-	-	-	-	-	-	3. 0 0	3. 0 0	3. 0 0

66	7E E6	Electrical Machines and Drives (OPEN	CO1	Understand the constructional details and principle of operation of rotating electrical machines	3	-	-	3	3	-	-	-	-	-	3	-	-	-	-
	60.	ELECTIVE)	CO2	Acquire knowledge about the working principle and various aspects of electric drives.	3	-	-	2	3	-	-	-	-	-	2	-	-	-	-
			CO3	Study and analyze the various control techniques for speed control on various electric drives.	2	-	-	3	3	-	-	-	-	-	3	-	-	-	-
			CO4	Develop design knowledge on how to design the speed control and current control loops of an electric drive	3	-	-	3	2	-	-	-	-	-	3	-	-	-	-
					2. 7 5	-	-	2. 7 5	2. 7 5	-	-	-	-	-	2. 7 5	-	-	-	-
67	7 M E6	Quality Management (OPEN ELECTIVE)	CO1	Describe the basic concept of Quality Management.	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-
	60.		CO2	Explain a system, component, and process to meet desired needs within limits using modeling process quality and learn the concept of control charts.	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO3	Illustrate the concept of Quality Assurance, Acceptance sampling and study quality systems like ISO9000, ISO 14000 and Six Sigma.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO4	Identify engineering problems, concept of reliability and Taguchi Method of Design of experiments.	-	2	-	-	-	-	-	-	-	-	-	-	2	-	-
					2. 0 0	2. 0 0	-	-	-	-	-	-	-	-	-	-	2. 0 0	-	-

68	7E C6 - 60.	Principle of Electronic communicatio n (OPEN	CO1	Describe the principles of various digital modulation systems and their properties, including bandwidth, channel capacity, transmission over bandlimited	3	2	-	2	-	-	-	-	-	-	-	3	-	-	-
	1	ELECTIVE)	CO2	Apply the concepts to practical applications in telecommunication	2	3	-	2	-	-	-	-	-	2	-	3	1	1	-
			CO3	Analyse communication systems in both the time and frequency domains.	2	3	2	-	2	-	2	-	-	-	-	3	-	2	-
			CO4	Design a communication system comprised of both analog and digital modulation techniques.	-	3	2	-	-	-	-	-	-	2	-	3	-	-	-
					2.	2.	2.	2.	2.	-	2.	-	-	2.	-	3.	1.	1.	-
					3	7 5	0	0	0		0			0		0	0	5 0	
							Ů	Ů	Ů					Ů			Ů	•	
69	7E C6 - 60.	Micro and Smart System Technology (OPEN	CO1	Explain the smart grids components and architecture	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	ELECTIVE)	CO2	Apply different measuring methods and sensors used in smart grid	3	3	2	-	-	-	-	-	-	-	-	-	1	-	-
			CO3	Analyze various renewable energy technologies	3	3	-	2	-	-	-	-	-	-	-	-	-	-	-
			CO4	Design various smart grid technology based devices.	-	-	3	3	3	-	-	-	-	-	-	-	1	-	1
					3. 0 0	3. 0 0	2. 5 0	2. 5 0	3. 0 0	-	-	-	-	-	-	-	1. 0 0	-	1. 0 0

70	7C E6 - 60.	Environmental Impact Analysis (OPEN	CO1	Define terms used in Environmental impact assessment, quality standards for environmental Components	2	1	-	-	-	-	1	-	-	-	-	1	-	1	-
	1	ELECTIVE)	CO2	Understand the concepts about EIA i.e; ecological imbalance, effects of pollution, importance of stakeholders in the EIA process	2	1	-	-	-	-	1	-	-		-	1	-	1	-
			CO3	Organize an environmental impact assessment for a proposed project/activity	1	2	1	-	1	1	2	-	-	-	-	2	1	1	1
			CO4	Analyze different methodologies and impacts related to EIA	1	3	1	-	1	1	2	-	-	-	-	2	1	1	1
					1. 5 0	1. 7 5	1. 0 0	-	1. 0 0	1. 0 0	1. 5 0	-	-	-	-	1. 5 0	1. 0 0	1. 0 0	1. 0 0
71	7C E6 - 60.	Disaster Management (OPEN ELECTIVE)	CO1	Understand concept of disasters, risks, hazards, capacity building, coping with disaster and disaster management act and policy in India	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	,	CO2	Explain concept of disasters, risks, hazards, capacity building, coping with disaster and disaster management act and policy in India	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
			CO3	Classify disasters, risks, hazards, management techniques	1	2	1	-	-	-	-	-	-	-	-	-	-	1	1
			CO4	Apply the concept of capacity building, coping with disaster and disaster management act and policy in India	1	2	1	-	1	1	-	-	-	-	-	-	1	1	-
			CO5	Investigate natural and manmade disasters	-	2	2	1	2	1	-	-	-	-	-	-	1	-	-

					1. 5 0	1. 7 5	1. 3 3	1. 0 0	1. 5 0	1. 0 0	-	-	-	-	-	-	1. 0 0	1. 0 0	1. 0 0
72	7I T4 - 21	Big Data Analytics Lab	CO1	Implement the basics of data structures like Linked list, stack, queue, set and map in Java.	-	3	-	-	2	-	-	-	-	-	-	-	2	-	-
			CO2	Perform setting up Hadoop in different operating modes, install and run Pig, Hive.	-	-	3	-	3	-	-	-	-	-	-	-	-	-	2
			CO3	Apply different file management task in Hadoop Map Reduce and perform different operations on data using Pig Latin scripts and Hive.	-	-	3	-	3	-	-	-	-	-	-	-	-	-	2
			CO4	Design solutions of some real life big data applications	-	-	-	3	3	-	-	-	-	-	-	-	3	-	-
					-	-	3. 0 0	3. 0 0	3. 0 0	-	-	-	-	-	-	-	3. 0 0	-	2. 0 0
73	7I T4 - 22	Cyber Security Lab	CO1	Apply techniques to identify network vulnerability	-	-	3	-	-	2	-	2	-	-	-	-	2	2	-
			CO2	Perform analysis of Network traffic using network based tools	-	2	3	-	-	2	-	2	-	-	-	-	2	-	2
			CO3	Implement techniques for network scanning and simulation of Intrusion detection systems	-	1	3	-	-	2	-	1	-	-	-	-	3	-	2
			CO4	Design programs to implement encryption and network attack simulations.	-	-	3	2	-	2	-	2	-	-	-	-	2	-	2

			CO5	Design network security solution for a given case study	-	-	3	2	-	2	-	2	-	-	-	-	2	2	2
					-	1. 5 0	3. 0 0	2. 0 0	-	2. 0 0	-	1. 8 0	-	-	-	-	2. 2 0	2. 0 0	2. 0 0
74	7I T7 - 30	Industrial Training	CO1	Identify the importance of emerging technologies and advancements	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-
			CO2	Explain the theoretical aspects directly viewing development and other activity in industry and can decide his/her career.	-	3	-	-	-	-	-	-	-	-	-	-	-	-	2
			CO3	Develop the practical skill, team work and ethical thinking while working in industry.	-	-	-	-	-	-	-	3	3	-	-	-	-	2	-
			CO4	Communicate effectively through technical presentation, report and interactions.	-	-	-	-	-	2	-	-	-	3	-	-	2	-	-
			CO5	Present and demonstrate the report using modern tools.	-	-	-	_	3	-	-	-	-	-	-	-	2	-	-
					3. 0 0	3. 0 0	-	-	3. 0 0	2. 0 0	-	3. 0 0	3. 0 0	3. 0 0	-	-	2. 0 0	2. 0 0	2. 0 0
75	7I T7 - 40	Seminar	CO1	Identify the importance of emerging technologies and advancements.	2	-	2	2	3	2	-	-	2	2	2	2	1	3	2
	70		CO2	Review the present literature of any emerging technology to find suitable knowledge.	-	-	-	-	-	2	2	-	-	-	-	2	-	-	2

	CO3	Assemble the knowledge into presentable format.	-	-	-	-	-	2	2	-	2	2	2	2	-	1	1
	CO4	Write the technical report ethically.	-	-	-	-	-	-	-	3	-	-	1	2	-	1	-
	CO5	Present and demonstrate the report using modern tools.	-	-	2	2	2	1	-	-	1	-	-	3	2	-	-
			2. 0 0	-	2. 0 0	2. 0 0	2. 5 0	2. 0 0	2. 0 0	3. 0 0	2. 0 0	2. 0 0	1. 6 7	2. 2 0	1. 5 0	1. 6 7	1. 6 7

# 11 Course File Sample

#### **Outcome Based Process Implementation Guidelines for Faculty**

#### 11.1 Labelling your course file

- Name of faculty:
- · Class- SEM:
- Branch:
- Course Code:
- Course Name:
- Session:

#### 11.2 List of Documents:

- 1. Vision & Mission Statements of the Institute
- 2. Vision & Mission Statements of the Department
- 3. List of PEO, PSO and PO of department
- 4. Personal Time Table
- 5. RTU Svllabus
- 6. Document as per point no. 1-4 in guidelines
- 7. Course Plan
- 8. Document as per point no 6-12 in guidelines
- 9. Document for CO Assessment Stage 1: As per point no 13, up to 13.2.5
- 10. Document for CO Assessment Stage 2: As per point no 13, up to 13.2.5, with comparison to previous
- 11. Document for CO Assessment Stage 3: As per point no 13, up to 13.2.5, with comparison to previous
- 12. Document for CO Attainment through RTU Component: Previous RTU Result: point no. 13.3 upto 13.3.2
- 13. Document for PO attainment through RTU Component: Previous RTU Result: point no. 13.4 upto 13.4.2
- 14. Document for Overall Attainment of PO through CO: As per point no 13.5
- 15. Document for last three years (Repeat process from 6-14 above): Comparative data should be included in course file
- 16. Lecture Notes
- 17. Copy of Assignments questions given from time to time
- 18. Copy of Tutorial Sheets given (if applicable)
- 19. RTU Question Papers with answer
- 20. Internal Assessment Question Papers with answer from time to time
- 21. Topics covered beyond syllabus- References
- 22. Details of any other activity and its assessment through rubric be included
- 23. Mapping department level/ focus activities with your COs

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# 12 Outcome Based Process Implementation Guidelines for Faculty

# **Course CO-PO, Preparation, Assessment Formats**

Academic Session: 2022-2023 Class: Semester:

Name of the Faculty:

Subject: Subject Code:

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

- 1. Vision & Mission of Department: Statement and Mapping with Institute Mission Here you have to include department mission & vision statements and show mapping of keywords with institute mission.
- 2. Program Educational Objectives (PEOs): Statement and Mapping with Department Vision & Mission
  - Here you have to include department PEO statements and show mapping of keywords with department vision & mission.
- 3. Program Specific Outcome (PSOs): Statement and Mapping with Department Vision & Mission
  - Here you have to include department PSO statements and show mapping of keywords with department vision & mission.
- 4. Program Outcome (POs): Statement and Mapping with PEO and PSO
  Here you have to include PO statements and show mapping of keywords with department PEOs & PSOs.
- 5. Course Plan (Deployment):

(Please write how you 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

- O coverage of Units by lectures
- O design exercises
- O demonstration of models
- O by assignments

Lecture No.	Lect. No.	Topics, Problems, Applications	CO/LO	Target Date of Coverage	Actual Date of Coverage	Ref. Book/Journal with Page No.
1.	1	Introduction of OS	CO1	12/07/2019	12/07/2019	T1 Page 121 - 126
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						

Example T1: Principles of OS, By Ramesh Soni, Tata MGHill, Edition 2019

- 6. **Course Outcomes:** Look for strong mapping of course with specific PO (2-3). Define Generic Course Outcomes (max 4 to 6) using Blooms Taxonomy. (In case of Lab Course define generic Lab Outcomes LO and refer CO as LO in this document).
  - i. 5IT4-03.1(CO1)-
  - ii. 5IT4-03.2(CO2)-
  - iii. 5IT4-03.3(CO3)-
  - iv. 5IT4-03.4(CO4)-
  - v. 5IT4-03.5(CO5)-

#### 7. CO-PO-PSO Mapping: Mapping Levels: 1- Low, 2- Moderate, 3-Strong

First try to find out 2-3 PO those are strongly related to your subject contents. Go through the contents and try to formulate 4-5 Course Outcome as per bloom taxonomy. Map each CO with PO and PSO as above. While mapping please rethink if you map any PO with 3, it means you are planning to deliver the contents of that level and you will also examine the students at that level.

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

#### 7.1 PO Strongly Mapped: (Example):

O PO2: Write full statement with keywords highlighted o PO3: Write full statement with keywords highlighted o PO4: Write full statement with keywords highlighted

7.2 PO Moderately Mapped: (Example)

O PO1: Write full statement with keywords highlighted O PO11: Write full statement with keywords highlighted

7.3 PO Low Mapped: (Example)

O PO12: Write full statement with keywords highlighted

7.4 PSO Strongly Mapped: (Example)

O PSO 1: Write full statement with keywords highlighted

7.5 PSO Moderately Mapped: (Example)

O PSO 2: Write full statement with keywords highlighted

**6.6 PSO Low Mapped: (Example)** 

O PSO 3: Write full statement with keywords highlighted

#### 8. Rules for CO/LO Attainment 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.

Remember that targets for internal assessment should be higher.

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<b>Course Category</b>	Level 3	Level 2	Level 1
A	60 % of students getting	50-60 % of students	<b>40-50</b> % of students
	> 60% marks	getting > 60% marks	getting > 60% marks
В	80 % of students getting	60-80 % of students	<b>40-60</b> % of students
	> 60% marks	getting > 60% marks	getting > 60% marks
С	90 % of students getting	70-90 % of students	40-70 % of students
	> 60% marks	getting > 60% marks	getting > 60% marks

#### 9. End Term RTU Component: CO Attainment Levels

attainment targets for RTU component from the following table.

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 and the results of past 3-5 years, you can decide specific range for CO

<b>Course Category</b>	Level 3	Level 2	Level 1
A	50 % of students getting	40-50 % of students	30-40 % of students
	> 60% marks	getting > 60% marks	getting > 60% marks
В	60 % of students getting	40-60 % of students	30-40 % of students
	> 60% marks	getting > 60% marks	getting > 60% marks
С	80 % of students getting	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.	Course Type	Attainment Level=1	Attainment Level=2	Attainment Level=3
1	Theory Courses Mid Semester Exams			
2	Theory Courses University Exam			
4	Practical Courses  - Internal Exams			
5	Practical Courses - University Exam			
6	Assignments/Unit Test			
7.	Any other			

#### 10. CO wise Assessment Activities (as Mentioned in Session Plan):

You can plan for each CO, activities/ assessment tools to be conducted/ used for its achievement. Use X to those you select for specific CO. Remove all unused columns.

							Act	ivities						
СО	Pre Mid I	Mid I	Quiz 1	Pre Mid II Test	Mid II				Semin ar	Project	Trainin g	Discussio n	Mid 1	Ind. visit
CO1	Test	Test			Test	t 1								
CO2														
CO3														
CO5 CO6														

In case of Lab course some activities are as follows:

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

#### 11. CO wise Assessment Activities:

Based on CO-PO mapping, determine targets 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 wise Assessment Tools:

This gives you generalized view of different direct and indirect tools those can be used for assessment / achievement of CO/PO. (Decide which tools are required for assessing a particular CO/LO and in reference to Course A, B, C difficulty level).

Sr. No.	Activity	Assessment	Tools	Weightage	Recommendation
	•	Method		Marks	
1.	Pre-Mid Term 1	Direct	Marks	10	For CO
2.	Post-Mid Term 1	Direct	Marks	10	For CO
3.	Quiz 1	Direct	Marks	10	For CO
4.	Quiz 2	Direct	Marks	10	For CO
5.	Pre Mid Term 2	Direct	Marks	10	For CO
6.	Post Mid Term 2	Direct	Marks	10	For CO
7.	Mid Term 1	Direct	Marks	20	For CO
8.	Mid Term 2	Direct	Marks	20	For CO
9.	Assignment 1	Direct	Marks	10	For CO
10.	Assignment 2	Direct	Marks	10	For CO
11.	Workshop	Indirect	Rubrics	5	For LO
12.	Seminar/ SPL	Indirect	Rubrics	5	For CO/LO
13.	<b>Project (Mini or NSP)</b>	Indirect	Rubrics	20	For LO
14.	Discussion	Indirect	Rubrics	5	For LO
15.	Training	Indirect	Rubrics	20	For LO
16.	Industrial Visit	Indirect	Rubrics	20	For LO
17.	Or any other activity	Direct/	Marks/	any	For LO
		Indirect	Rubrics		
18.					
	for every rubrics you nee ange of marks or weighta				

#### 13. CO Assessment Process:

After every activity (Ideally as per above table): (Frequency of Assessment- Can be taken as monthly). So the assessment can be for all activities held during the month. Do the following.

#### 13.1 Attainment of COs

13.1.1 Attainment Table for CO1: 5IT4-03.1

Student	Pre Mid I Test 10	Quiz 1 10	Assignment 10	Quiz 1 10	WS 10	Training 10	Total (60)	% 0f Marks	Level of Attainment
Name1									3
Name2									2
Name 3									1
Name 4									2
Name 5									1
Name 6									2
	No. of Stude	ents attain	ed level 3=			% of Stude	nts Attain	ed Level 3:	=
	No. of Stude	ents attain	ed level 2=			% of Stude	nts Attain	ed Level 2:	=
	No. of Stude	ents attain	ed level 1=			% of Stude	nts Attain	ed Level 1:	=
	Target Ach	ieved=?(	Check Level 3	% attainm	ent -If N	o Find Gap)			

# (Repeat it for all other COs, (CO2 – CO5))

# 13.1.2 CO-Gap Identifications

COs	CO 1	CO 2	CO 3	CO4	CO5
Target					
Achieved					
Gap					

#### 13.1.3 Gaps Identified:

Describe what the reasons for gaps are

i.

ii.

#### **Overall CO Attainment Table: Example**

COs	CO 1	CO 2	CO 3	CO4	CO5	Co6
Attainment level as per rules						
set	3	1	3	3	3	3
Average CO attainment through internal assessment			2	.67		

#### 13.1.4: Activities Decided to bridge the gap

Please do analyze whether you could get improvement through activities decided and conducted for improvements. Reason should be noted why / how it is improved or not.

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#### 13.2 Attainment of POs & PSO:

13.2.1 Target-Expected Attainment of PO by attainment of CO- Put all mappings of 3, 2 and 1. Based on CO-PO mapping, determine targets for each PO as average of targets of all relevant COs.

CO						P	O							PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
3ITA101.1															
3ITA101.2															
3ITA101.3															
3ITA101.4															
3ITA101.5															
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 Attainment of POs & PSO through CO as Continuous Evaluation:

Put all attainment values of CO as per mappings with 3, 2, 1 as evaluated in 13.1.1 (Frequency- Monthly)

CO						P	O							PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
5IT4-03.1															
5IT4-03.2															
5IT4-03.3															
5IT4-03.4															
5IT4-03.5															
Obtain Avg. 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 PO Gap Identification:

						P	O							PSO	
	PO1	PO2	PO3	PO12	PSO1	PSO2	PSO3								
Targets															
Achieved															
Gap															

#### 13.2.4 Gaps Identified:

Describe what the reasons for gap (for PO) are.

i.

ii.

#### 13.2.5 Activities Decided to bridge the gap

Please do analyze whether you could get improvement through activities decided and conducted for improvements. Reason should be noted why / how it is improved or not.

Repeat whole process after one month, Two months, and three months. Plot bar chart for improvement in CO, PO & PSO. (Every month)

#### 13.3 Attainment of CO through RTU Exam:

This may be possible for previous semester results so overall attainment. If faculty is changed, data will be evaluated by concerned faculty who taught and handed over to current faculty. If faculty not available, then current faculty will do the same.

Student	RTU Marks	% 0f	Level of Attainment
	(80)	Marks	
Name1			3
Name2			2
Name 3			1
Name 4			2
Name 5			1
Name 6			2
No. of Students at	tained level 3=	% of S	Students Attained Level 3=
No. of Students at	tained level 2=	% of S	Students Attained Level 2=
No. of Students at	tained level 1=	% of S	Students Attained Level 1=
CO Attainment = ? (	Check Level 3 % attainmen	t -If No Find (	Gap)
Mark X for absent- T	Take avg. of all present		

#### 13.3.1 Attainment of CO through RTU Component:

CO: Course C	Code: Cour	se Name		
Target				
Achieved				
Gap				

#### 13.3.1 Gaps for CO attainment through RTU Component:

Analyze RTU Question paper with respect to COs formulated, contents delivered and students examined, find out reasons for gaps

i.

ii.

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#### 13.3.2 Action to be taken:

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

#### 13.4 Attainment of PO through CO (RTU) Component

Put RTU Results as per target achieved only and mapping level, in following table

		A	Attair	ment	t of P	O thi	ough	CO	(RTU	J) Con	npone	nt			
CO	CO PO P														
	PO1   PO2   PO3   PO4   PO5   PO6   PO7   PO8   PO9   PO10   PO11   PO12														PSO3
3ITA101															

		P	Attair	men	t of P	O thi	rough	CO	(RTU	J) Con	npone	nt			
3ITA101		PO PSO													
	PO1	O1   PO2   PO3   PO4   PO5   PO6   PO7   PO8   PO9   PO10   PO11   PO12   PSO1   PSO2   PSO3													
Targets															
Achieved															
Gap															

#### 13.4.1 Gaps in PO through CO from RTU component:

Analyze RTU Question paper with respect to COs formulated & mapped, contents delivered and students examined, find out reasons for gaps

Describe what are the reasons for gap

i.

ii.

#### 13.4.2 Action to be taken:

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 weightage be considered.

- 1. Internal Assessment Total weightage- 40 %
- 2. RTU Component ----- Weightage 60 %

Put all attainments in the following table and compute.

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13.5.1: Table 1

	RTU Compo	nent		Internal	Assessm	nent		
Student	RTU Marks (80)	% of Marks	60% Weightage X6/100 (A)	Overall CO ()	% of Marks	Weightage X4/100 (B)	Total (A+B)	Level of Attainment
Name1								3
Name2								2
Name 3								1
Name 4								2
Name 5								1
Name 6								2
No. of Stu	dents attained	level 3=			% of S	   Students Atta	ined Lev	rel 3=
No. of Stu	dents attained	level 2=			% of S	Students Atta	ined Leve	el 2=
No. of Stu	dents attained	level 1=			% of S	Students Atta	nined Lev	el 1=
	ent = ? (Check Le absent- Take avg.			Find Gap)				

# OR

#### 13.5.2: Table 2

		RTU		Inter			Inter			Interr				
					' Activi			Activit			Activi			
				(Wei	ghtage	<b>%</b> )	2 (We	eightag	e	(Weightage %)		<b>%</b> )		
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 ()	% Of Mark s	Weighta ge X/100	Total (A+B+C+ D)	Level of Attainmen t
Name1														3
Name2														2
Name 3														1
Name 4														2
Name 5														1
Name 6														2

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No. of Students attained level 3= Attained Level 3=	% of Students
No. of Students attained level 2= Attained Level 2=	% of Students
No. of Students attained level 1= Attained Level 1=	% of Students
PO Attainment = ? (Check Level 3 % attainment -If No Find Gap)	
Mark X for absent- Take avg. of all present	

#### 13.5.3: Overall PO & PSO Attainment through Course:

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

Attainment	Attainment of Overall PO for Session 2018-2019														
CO		PO PSO													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
3ITA101															
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:

Attainmen	Attainment & Gap of Overall PO Session														
3ITA101		PO											PSO		
	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 check in CO, PO & PSO. (Every Year).

# 13 File Formats

# 13.1 <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 Practical Exam Format
  - x. Mid Term Question Paper Format
  - xi. Evaluation Sheets Format
- xii. Activity Report Format

# 13.2 Front Page of Course File

CAMPUS:



# TEACHING MANUAL

OURSE:	
MESTER:	
ВЈЕСТ:	
B. CODE:	
CONTENT:	Syllabus, Blown-up, Deployment, Zero Lectures,
Detailed lecture no	otes with cover page, Tutorial/Home-Assignment Sheets
	SESSION: 20
ME OF FACULTY: _	
PARTMENT:	

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Curriculum Delivery Plan

#### 13.3 ABC Analysis Format



Department of Information Technology Even Semester 2021-22

#### **ABC** Analysis

Course: B. Tech. Class/Section: 3rd Year/A Date: 10/01/2022
Name of Faculty: XYZ Name of Subject: DME-II Subject Code: 6 IT 4-04

Sr. No.	Category A (Hard topics)	Category B (Topics with average hardness level)	Category C (Easy to understand topics)	Preparedness for "A" topics
1	Bolts subjected to variable stresses.	Goodman line, Soderberg line, Design of machine members subjected to combined, steady and alternating stresses. Design for finite life, Design of Shafts under Variable Stresses,	Variable load, loading pattern, endurance stresses, Influence of size surface finish, notch sensitivity and stress concentration.	PPT & Notes
2	Design of IC Engine parts: Piston, Connecting rod, Crank shaft	Dell.		PPT & Notes
3	Design of IC Engine components: Piston, Cylinder, Connecting Rod and Crank Shaft.	Design of helical compression, tension, torsional springs, springs under variable stresses.	Design of belt, rope and pulley drive system,	SPL & PPT
4	Design and force analysis of spur, helical, bevel and worm gears, Bearing reactions due to gear tooth forces.	Design of gear teeth: Lewis and Buckingham equations, wear and dynamic load considerations.		PPT
5	Design of Sliding and Journal Bearing: Methods of lubrication, hydrodynamic, hydrostatic, boundary etc. Minimum film thickness and thermal equilibrium.	Selection of anti-friction bearings for different loads and load cycles, Mounting of the bearings, Method of lubrication.		SPL & PPT

# 13.4 Blown-up Format



#### BLOWN UP SYLLABUS

Campus: PCE	Course: B.Tech.		n: VI th sem./A	Date:06/01/2022
Name of Faculty:	XYZ	Name of Sub	ject: DME-II	Code: 6IT4-04
Sr. No.	Topic as pe	r Syllabus	BLOWN UP TO	OPICS ( Upto 10 Times Syllabus)
-	PAR	r-1		

Sr. No.	Topic as per Syllabus	BLOWN UP TOPICS ( Upto 10 Times Syllabus)
	PART-1 FATIGUE CONSIDERATION IN DESIGN	
1	110 1 15 1 1 1 1 1	
	1.1 Review of Fatigue (Loading pattern)	1.1.1 Types of load 1.1.2 What is fatigue?
		1.1.3 Fatigue curve
		1.1.4 Endurance limit
	1.2 Factor affecting endurance limit	1.2.1 Surface finish factor
	1.2 ractor directing character into	1.2.2 Size factor
		1.2.3 Reliability factor
		1.2.4 Temperature factor
	1.3 Notch sensitivity & Stress concentration	1.3.1 factor of safety
		1.3.2 stress concentration
		1.3.3 stress concentration curve
		1.3.4 notch sensitivity
		13.5 theoretical stress concentration factor
	DESIGN OF MACHINE MEMBER	7
	1.4 Goodman, Goderberg line, Design of machine member under steady, Variable and	1.4.1 Good men line, Soderberg line, Gerber parabola method
	alternating stress Design for variable stresses	1.4.2 Design under axial, bending and torsional stress
	diterrating stress besign for variable stresses	1.4.3 Mean and variable stress
		1.4.4 Design for combined stress
		1.4.4 Numerical approach for the design of member
	1.5 Design for finite life	1.5.1 Requirement of finite life design
		1.5.2 Goodman approach toward finite life
		1.5.3 Numerical approach for finite life design
	PART-2	
	DESIGN OF I.C ENGINE PARTS	
2	2.1 Design of I.C Engine Piston	2.1.1 What is Piston and its importance?
		2.1.2 Different materials used for the piston.
		2.1.3 Effect of materials on the Piston design
		2.1.4 Calculation of various pressure and inertia forces

# 13.5 Deployment Format



C	ampus: PCE Course: B.Tech.		Class/S	ection: VI th sem./A		Date: 05/	01/2022
N	Name of Faculty: XYZ		Name o		Code: 6]	T4-04	
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	COI	11/01/2022	11/01/2022	PPT	Machine desig
2	Introduction to Unit:1 Introduction of the lecture	L-2	COI	12/01/2022	12/01/2022	Chalk/ Board	by V.B Bhandari & R. S Khurmi
	1.1.1 Types of load 1.1.2 What is fatigue 1.1.3 Fatigue curve 1.1.4 Endurance limit Conclusion of the lecture Brief of next lecture			•	4		Machine desig by V.B Bhandari & R. S Khurmi Page No 34-38
3	Introduction of the lecture 1.2.1 Surface finish factor 1.2.2 Size factor 1.2.3 Reliability factor 1.2.4 Temperature factor Conclusion of the lecture Brief of next lecture	L-3	COI	14/01/2022	14/01/2022	Chalk/ Board	Machine design by V.B Bhandari & R. S Khurmi Page No 44-52
4	Introduction of the lecture 1.3.1 Factor of safety 1.3.2 Stress concentration 1.3.3 Stress concentration curve Conclusion of the lecture Brief of next lecture	L-4C	CO1,2	16/01/2022	16/01/2022	Chalk/ Board	Machine desig by V.B Bhandari & R S Khurmi Page No 58-62
5	Introduction of the lecture 1.3.4 Notch sensitivity 1.3.5 Theoretical stress concentration factor Conclusion of the lecture Brief of next lecture	L-5	COI	17/01/2022	17/01/2022	Chalk/ Board	Machine design by V.B Bhandari & R. S Khurmi Page No 73-82
6	Introduction of the lecture 1.4.1 Goodman line, Soderberg line, Gerber parabola method the design of member	L-6	CO1,2	18/01/2022	18/01/2022	Chalk/ Board	Machine design by V.B Bhandari & R. S Khurmi Page No 82-88

#### 13.6 Zero Lecture Format



#### ZERO LECTURE

			Session:	20 - (	Sem	.)		
Cam	pus:		. Course:		Class/S	ection:		
Nam	e of Fac	ulty:						
				Zero Lec	ture			
1). Na	me of Su	bject:		Co	de:			
a). No b). Qu c). De d). Re e). E- f). Ou taken. and In	nalification esignation: esearch Ar- mail Id: her details Member enternationa	ea:  s: Information of Profession	nal body, Acade/Journals etc.	s of proficience demic Proficien				
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 e). Co 6). Sy a). Ut	structional troduction tts and gro elevance to elevance to elevance to elation with mnection v llabus mit Name:	n to subject oup/place the paranch: p Society: self: h laboratory with previous	e:%En t: - (Pl. separ em appropriate	rt year:	Hindi (Englis	sh not less tha	ın 60%)	
7). Bo	oks/ Web	site/Journa	ls & Handbo	oks/ Associatio	on & Institutio	n:		

a). Recommended Text & Reference Books and Websites:

S. No.	Title of Book	Authors	Publisher	Cost (Rs.)	No. of books in Library
Text Book	S	**			85
T1					
T2				50 se	
T3					
Reference	Books				
R1				60	2) 2)
R2					
R3	Me 909 #1809			30 3a	
Websites r	elated to subject	**	*.	113	
1					
2					

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

#### 8). Syllabus Deployment: -

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

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

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

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

- b). Special Activities (To be approved by HOD & Dean & must be mentioned in deployment):
  - · Open Book Test- Once in a semester
  - · Quiz Once in a semester
  - · Special Lectures (SPL)- Minimum 10% of total no. of lectures including following
    - Smart Class by the faculty, who is teaching the subject
    - ii. SPL by expert faculty at PGC level
    - 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
2.					7
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

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

# 13.7 Lecture Note Front page Format



# LECTURE NOTES

ampus: Course:	Class/Section:	Date:
ate (Prep.): Date (Del.):	Unit No.:Lect. I	No:
OBJECTIVE: To be written before taking the lec will be taught in this lecture)	eture (Pl. write in bullet points the main topics/co	oncepts etc., which
IMPORTANT & RELEVANT QUESTIONS:		
FEED BACK QUESTIONS (AFTER 20 MINU	TES):	
OUTCOME OF THE DELIVERED LECTURI students' feedback on this lecture, level of underst		e in bullet points about
REFERENCES: Text/Ref. Book with Page No. a	and relevant Internet Websites:	

#### 13.7.1 Detailed Lecture Note Format-1



#### **DETAILED LECTURE NOTES**

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

#### 13.7.2 Detailed Lecture Note Format-2



# DETAILED LECTURE NOTES PAGE NO. .....

# 13.8 Assignment Format



	Assignment Sheet-1					
Name	us: PCE Course: B.Tech. Class/Section: III  of Faculty: SKT Name of Subject: Analysis of Algorithms  of Preparation: Scheduled Date of Submission:	Date:				
Q. No.	Questions	COs	POs	PSOs		
1	Discuss influence of size, surface, reliability and modifying factor on endurance limit of material.	COI	PO2	PSO1		
2	Discuss various methods of mitigation of stress concentration	COI	PO2	PSO1		
3	Define the following terms used in design of machine elements  (i) Size Factor (ii) Notch Sensitivity (iii) Surface Finish Factor	COI	PO2	PSO1		
4	What do you mean by stress concentration? How do you take it into consideration in case of components subjected to dynamic loads?	COI	PO2	PSO1		
5	Explain difference between Soderberg, Goodman and Gerber criteria in detail.	COI	PO2	PSO1		
6	What is physical significance of notch sensitivity factor being one of zero.	COI	PO2	PSO1		
7	What is fluctuating stresses? Draw stress-time curves for different fluctuating stresses.	COI	PO2	PSOI		
8	What is endurance strength? Draw S-N diagram and list various factors affecting it.	COI	PO2	PSO1		
9	Draw and describe Goodman and Soderberg diagram.	COI	PO2	PSO1		
10	Explain modified Goodman diagram for bending stresses.	COI	PO2	PSO1		

#### 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 Department of Information Technology Odd Sem. 2021-22 3IT4-22: Object Oriented Programming Lab I Midterm Practical Exam (Set-1)

# Poornima College of Engineering, Jaipur Department of Information Technology Odd Sem. 2021-22 3IT4-22: Object Oriented Programming Lab I Midterm Practical Exam (Set-2)

		culty: _ m:		2 hours
Q. No.	СО	РО	Question	Marks
1				
2				
•••				•

Poornima College of Engineering, Jaipur Department of Information Technology Odd Sem. 2021-22 3IT4-22: Object Oriented Programming Lab I Midterm Practical Exam (Set-3)

Date	of Exai	n:	Max Marks: 30	
Q. No.	СО	РО	Question	Marks
1				
2				
•••				

Name of Faculty:

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
7: Director
Peornima College of Engineering
131-6, Fill Co. Institutional Area
Stlapura, JAIPUR

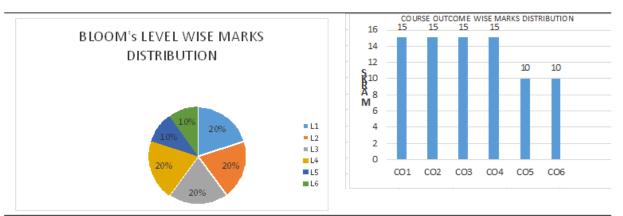
Time Duration: 2 hours

# 13.11 Mid Term Theory Question Paper Format

CO4: CO5: CO6:

POORN	MA COLLEGE OF ENGINEERING, JAIPUR
II B.TECH. (III Sem.)	Roll No.
FIF	T MID TERM EXAMINATION 2022-23
• ,	C SUBJECT NAME—ADVANCE ENGINEERING MATHEMATICS -I NCH – INFORMATION TECHNOLOGY)
•	Course Credit:
Max. Time: 2 hrs.	Max. Marks: 60
NOTE:- Read the guidelines given	th each part carefully.
Course Outcomes (CO):	
At the end of the course the student sh	uld be able to:
CO1:	
CO2:	
CO3·	

FAN	Γ - A: (All questions are compulsory) Max. Marks (10)  Marks   CO	BL	РО
	INGLES CO	DL.	
Q.1	2		
Q.2	2		
Q.3	2		
Q.4	2		
Q.5	2		
PAR	T - B: (Attempt 4 questions out of 6) Max. Marks (20)		
Q.6	5		
Q.7	5		
Q.8	5		
Q.9	5		
Q.10	5		
Q.11	5		
PAR	T - C: (Attempt 3 questions out of 4) Max. Marks (30)		
Q.12	10		
Q.13	10		
Q.14	10		
Q. 15	10		



BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analyzing, 5 – Evaluating, 6 - Creating)

CO - Course Outcomes; PO - Program Outcomes

# 13.12 Evaluation Sheet Format (Theory)

	1.00	D TEE	M TUESE	V EVAN 2002 22	POORN						RING,	JAIPU	IR			TECH	11.500	. D	or		
				Y EXAM, 2022-23	Subject			ATION	SHEE	Т					В.	TECH.	. II YE	AR (III	SEM.)		
		ject Co of Exa			Name of Ex																
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					Q. No.	Q.1	Q.2	Q.3	Q.4	Q.5					Q.10	Q.11	Q.12	Q.13	Q.14	Q.15	Total
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S.	Year	Batch	Roll No.	Name of Students	BL No.																
No.		Daton		Trains of Stadonis	PO No.																60
					Max.																
1	2П	2П1	21/IT/01	AAYUSH KUMAR JHA .	Marks: PCE21IT001																0
2	2IT	2IT1	21/17/02	AAYUSH SHARMA	PCE21IT001			-					-								0
3	211	2IT1	21/IT/03	ABHISHEK .	PCE21IT003																0
4	2П	2IT1	21/IT/04	ADITYA SHARMA	PCE21IT004																0
5	2П	2IT1	21/IT/05	AMAN BATRA	PCE21IT005																0
6	2П	2IT1	21/IT/06	ANIMESH KUMAR GARG	PCE21IT007																0
7	2П	2IT1	21/IT/07	ANSHIKA JAIN	PCE21IT009								4								0
8	211	2111	21/17/08	ANUSH AGARWAL	PCE21IT010								1								0
9 10	2IT 2IT	2IT1 2IT1	21/IT/09 21/IT/10	ARPIT JAIN ASHISH AGRAWAL	PCE21IT011 PCE21IT012						-										0
11	2IT	2IT1	21/17/11	AVINASH KUMAR	PCE21IT012						,										0
12	211	2IT1	21/17/12	AYUSH KUMAR	PCE21IT014									1							0
13	2П	2IT1	21/17/13	AYUSHI SHARMA	PCE21IT511																0
14	2П	2IT1	21/17/14	BHAVIN GARG	PCE21IT015																0
15	2П	2IT1	21/17/15	CHINU GUPTA	PCE21IT016																0
16	2П	2IT1	21/IT/16	CHIRAG VIJAYVERGIYA	PCE21IT017		<u> </u>	-					-	-				_			0
17	2П	2IT1	21/17/17	DEEPANSHU SINGH BHADORIYA	PCE21IT018																0
18	2П	2IT1	21/17/18	DEVANSH SHARMA	PCE21IT019																0
19	2П	2IT1	21/17/19	DIKSHA SHARMA	PCE21IT020			L					L								0
20	2П	2IT1	21/IT/20	DIVAKAR SHARMA	PCE21IT021																0
21	2П	2IT1	21/17/21	DIVYA JAIN	PCE21IT022																0
22	2П	2П1	21/17/22	DIVYANSHU SINGH RATHORE	PCE21IT023																0
23	2П	2П2	21/17/23	HARSH KATTEL	PCE21IT512																0
24	211	2П2	21/IT/24	HARSH KUMAR	PCE21IT024																0
25	2П	2П2	21/IT/25	HARSHIT SENGAR	PCE21IT025																0
26	21T	2П2	21/IT/26	HIMANSHU BANSAL	PCE21IT026																0
27	2П	2П2	21/IT/27	HITESH SHARMA	PCE21IT027																0
28	2П	2IT2	21/17/28	JITENDRA VERMA	PCE21IT028																0
29 30	2IT 2IT	2IT2 2IT2	21/IT/29 21/IT/30	KHWAHISH MOHINANI KRISHNA JODHA	PCE21IT029 PCE21IT030																0
31	211	2П2	21/17/31	LAVI.	PCE21IT031																0
32	2П	2П2	21/IT/32	LAVISH AGARWAL	PCE21IT032																0
33	2П	2П2	21/IT/33	LOKENDRA SINGH	PCE21IT033																0
				SHEKHAWAT																	
34 35	2IT	2IT2 2IT2	21/IT/34 21/IT/35	LUCKY TAK	PCE21IT034 PCE21IT035																0
36	2IT	2IT2	21/IT/35 21/IT/36	MAYANK UPAMANYU MUDIT VIJAY	PCE21IT035 PCE21IT036																0
37	211	2П2	21/17/37	NIDHI JANGIR	PCE21IT037																0
38	2П	2П2	21/IT/38	NIHIT JANGID	PCE21IT038																0
39	2П	2П2	21/IT/39	NIKHAR JAIN	PCE21IT039																0
40	21T	2П2	21/IT/40	NIKHIL ACHOLIYA	PCE21IT040																0
41	2П	2П2	21/IT/41	PARTH MITTAL	PCE21IT041																0
42	2П	2П2	21/17/42	PRIYANSH SINGH SOLANKI	PCE21IT042																0
43	2П	2П2	21/17/43	PURVI JAIN	PCE21IT043																0
44	2П	2П2	21/17/44	RITESH KUMAR SINGH	PCE21IT044																0
45	2П	2П3	21/17/45	RITU SINGH	PCE21IT045																0
46	2П	2П3	21/IT/46	RITU TIWARI	PCE21IT046			_													0
47 48	2П	2П3	21/17/47	ROHIT KUMAR SHASHANK SHARMA	PCE21IT047 PCE21IT048	-	<u> </u>	-		_				-				-			0
48	2IT 2IT	2IT3 2IT3	21/IT/48 21/IT/50	SHRISH KUMAR	PCE21IT048																0
50	2IT	2П3	21/17/51	SHUBHAM SARIN	PCE21IT063							-									0
51	2П	2П3	21/17/52	SUPRIYA RANI	PCE21IT051						,										0
52	2П	2П3	21/17/53	TANMAY KUMAWAT	PCE21IT052																0
53	2П	2П3	21/17/54	TANMAY SHARMA	PCE21IT053																0
54	211	2П3	21/17/55	TARUN SAINI	PCE21IT054			_													0
55	211	2П3	21/17/56	TUSHAR SINGHAL	PCE21IT055		_	-	-			-		-							0
56 57	2IT 2IT	2IT3 2IT3	21/IT/57 21/IT/58	VAIBHAV DUBEY VAIBHAV JAIN	PCE21IT056 PCE21IT057		<u> </u>	-													0
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59	211	2П3	21/17/60	VINIT KHANDELWAL .	PCE21IT059																0
60	2П	2П3	21/17/61	YASH GODHWANI	PCE21IT060																0
61	2П	2П3	21/1T/62	YASH SHARMA	PCE21IT061																0
62	2П	2П3	21/IT/63	YOGESH YADAV	PCE21IT062			_													0
63 64	2IT 2IT	2IT3 2IT3	21/IT/64 21/IT/65	TANISHQUE SAXENA YASH CHATURVEDI	PCE21IT300 PCE21IT301	_	<u> </u>	-	-			-	-	-				_			0
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Н				. of ABSENT Students																	0

# 13.13 Evaluation Sheet Format (Lab)

	I MID	TERM	PRACTIC	AL EXAM, 2022-23	POORNIMA COLLEGE OF ENGINEERING, JAIPUI EVALUATION SHEET								R B. TECH. II YEAR (III SEM.)								
	Subject Code : Date of Exam :				Subject	TON SHEET					D. TEGH. II TEAR (III SEM.)										
3ra	Date nch	of Exa	am :	IT	Name of E			ents / C	Oberva	tion / V	Vritten	/ Perf	ormar	ice / Te	eam			Viva			2IT1
					Q. No. LO No.	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10	Q.11	Q.12	Q.13	Q.14	Q.15	Total
s.	Year	Batch	Roll No.	Name of Students	BL No.																
No.		Buton		Trains or oradonis	PO No. Max.																40
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2	2IT	2IT1 2IT1	21/IT/01 21/IT/02	AAYUSH KUMAR JHA . AAYUSH SHARMA	PCE21IT001 PCE21IT002		+														0
3	2П	2IT1	21/IT/03	ABHISHEK .	PCE21IT003																0
5	2IT 2IT	2IT1 2IT1	21/IT/04 21/IT/05	ADITYA SHARMA AMAN BATRA	PCE21IT004 PCE21IT005																0
6	217	2111	21/IT/06	ANIMESH KUMAR GARG	PCE21IT007				1 4												0
8	2IT 2IT	2IT1 2IT1	21/IT/07 21/IT/08	ANSHIKA JAIN ANUSH AGARWAL	PCE21IT009 PCE21IT010				1												0
9 10	2IT	2IT1 2IT1	21/IT/09 21/IT/10	ARPIT JAIN ASHISH AGRAWAL	PCE21IT011 PCE21IT012																0
11	2IT	2IT1	21/IT/11	AVINASH KUMAR	PCE21IT012																0
12 13	2IT 2IT	2IT1 2IT1	21/IT/12 21/IT/13	AYUSH KUMAR AYUSHI SHARMA	PCE21IT014 PCE21IT511																0
14	211	2IT1	21/17/14	BHAVIN GARG	PCE21IT015																0
15 16	2IT 2IT	2IT1 2IT1	21/IT/15 21/IT/16	CHINU GUPTA CHIRAG VIJAYVERGIYA	PCE21IT016 PCE21IT017																0
17	211	2IT1	21/17/17	DEEPANSHU SINGH	PCE21IT018																0
18	2П	2П1	21/17/18	BHADORIYA DEVANSH SHARMA	PCE21IT019																0
19	217	2111	21/17/19	DIKSHA SHARMA	PCE21IT020																0
21	2IT	2IT1 2IT1	21/IT/20 21/IT/21	DIVAKAR SHARMA DIVYA JAIN	PCE21IT021 PCE21IT022																0
22	2П	2IT1	21/17/22	DIVYANSHU SINGH RATHORE	PCE21IT023																0
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		ject Co		AL EXAM, 2022-23	Subject			TION	SHEE						В.	TECH.	. II YE	AR (III	SEM.)		
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s.					LO No.																
o. No.	Year	Batch	Roll No.	Name of Students	BL No. PO No.																40
					Max.																
23	2П	2П2	21/17/23	HARSH KATTEL	Marks: PCE21IT512																0
24	211	2П2	21/17/24	HARSH KUMAR	PCE21IT024																0
25 26	2IT 2IT	2IT2 2IT2	21/IT/25 21/IT/26	HARSHIT SENGAR HIMANSHU BANSAL	PCE21IT025 PCE21IT026		-														0
27	2П	2П2	21/17/27	HITESH SHARMA	PCE21IT027																0
28 29	2IT 2IT	2Π2 2Π2	21/IT/28 21/IT/29	JITENDRA VERMA KHWAHISH MOHINANI	PCE21IT028 PCE21IT029				1												0
30	2П	2П2	21/IT/30	KRISHNA JODHA	PCE21IT030		1				,										0
31	2IT 2IT	2Π2 2Π2	21/IT/31 21/IT/32	LAVI . LAVISH AGARWAL	PCE21IT031 PCE21IT032																0
33	2П	2П2	21/17/33	LOKENDRA SINGH	PCE21IT033																0
34	2П	2П2	21/IT/34	SHEKHAWAT LUCKY TAK	PCE21IT034																0
35	2П	2П2	21/17/35	MAYANK UPAMANYU	PCE21IT035																0
36 37	2IT 2IT	2IT2 2IT2	21/IT/36 21/IT/37	MUDIT VIJAY NIDHI JANGIR	PCE21IT036 PCE21IT037		-														0
38	2П	2П2	21/IT/38	NIHIT JANGID	PCE21IT038																0
39 40	2IT	2IT2 2IT2	21/IT/39 21/IT/40	NIKHAR JAIN NIKHIL ACHOLIYA	PCE21IT039 PCE21IT040		+														0
41	2П	2П2	21/IT/41	PARTH MITTAL	PCE21IT041																0
42	2П	2П2	21/17/42	PRIYANSH SINGH SOLANKI	PCE21IT042																0
43 44	2IT 2IT	2IT2 2IT2	21/17/43	PURVI JAIN RITESH KUMAR SINGH	PCE21IT043 PCE21IT044																0
44	211	2112	21/11/44	KITESH KUMAK SINGH	POORN	IMA (	OLLE	GE O	F ENG	INEE	RING,	JAIPU	R								U
		TERM ject Co		AL EXAM, 2022-23	Subject			TION	SHEE	Т					В.	TECH.	. II YE	AR (III	SEM.)		
	Date	of Exa			Name of E	xamiı	ner:														
Bra	nch		I	IT	Q. No.	Q.1		ents / C							Q.10	O 11	0 12	Viva	Q.14	O 15	2IT3 Total
_					LO No.	٠.,	Q.E	2.5	2.4	۵.5	۵.0		۵.0	۵.5	2.10	4.11	2,12	4,15	G.14	Q.13	· otal
S. No.	Year	Batch	Roll No.	Name of Students	BL No. PO No.																40
					Max.																
45	2П	2П3	21/IT/45	RITU SINGH	Marks: PCE21IT045																0
46	2П	2П3	21/1T/46	RITU TIWARI	PCE21IT046																0
47 48	2IT 2IT	2IT3 2IT3	21/IT/47 21/IT/48	ROHIT KUMAR SHASHANK SHARMA	PCE21IT047 PCE21IT048		1														0
49	21T	2П3	21/IT/50	SHRISH KUMAR	PCE21IT049																0
50 51	2IT 2IT	2IT3 2IT3	21/IT/51 21/IT/52	SHUBHAM SARIN SUPRIYA RANI	PCE21IT063 PCE21IT051		1														0
52	2П	2П3	21/IT/53	TANMAY KUMAWAT	PCE21IT052																0
53 54	2IT 2IT	2IT3 2IT3	21/IT/54 21/IT/55	TANMAY SHARMA TARUN SAINI	PCE21IT053 PCE21IT054							-									0
55	2П	2П3	21/IT/56	TUSHAR SINGHAL	PCE21IT055		1					-									0
56 57	2IT 2IT	2IT3 2IT3	21/IT/57 21/IT/58	VAIBHAV DUBEY VAIBHAV JAIN	PCE21IT056 PCE21IT057		<del>-</del>			_		_	_	_							0
58	2П	2П3	21/IT/59	VIDHI JAIN .	PCE21IT058																0
59 60	2IT	2IT3 2IT3	21/IT/60 21/IT/61	VINIT KHANDELWAL . YASH GODHWANI	PCE21IT059 PCE21IT060		1														0
61	2П	2П3	21/IT/62	YASH SHARMA	PCE21IT061																0
62	21T	2П3	21/1T/63	YOGESH YADAV	PCE21IT062																0
63 64	2IT 2IT	2IT3 2IT3	21/IT/64 21/IT/65	TANISHQUE SAXENA YASH CHATURVEDI	PCE21IT300 PCE21IT301		+					_									0
% C			ERAGE																		
B				rks of Present Students . of Present Students	5																0
c			Average	Marks of students = A																	#DIV/0
			Marks av	vard out of (each stude																	40
D			% Average	ge marks per student 1	C/D*100)																(#DIV/G
			Total No	ge marks per student ( . of PASS Students . of FAIL Students	C/D*100)																#DIV/0 0 64

# 15. 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/Downloads.html	Format of Students & Employees							
4	https://www.turnitin.com/login_page.asp ?lang=en_us	Plagiarism Checker							
5	http://pcelibrary.poornima.org/	PCE Digital Library							
6	https://ndl.iitkgp.ac.in/	National Digital Library of India (NDLI)							
7	https://swayam.gov.in/	SWAYAM MOOCs platform							
8	https://www.vlab.co.in/	Virtual Labs							
9	https://spoken-tutorial.org/	Spoken Tutorial							
10	https://fossee.in/	FOSSEE (Free/Libre and Open Source Software for Education)							
11	https://www.sih.gov.in/	Smart India Hackathon							
12	https://www.swayamprabha.gov.in/	32 high quality educational channels through DTH on 24X7 basis.							
13	https://ieeexplore.ieee.org/Xplore/home.j sp.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							
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								