



तीर्थंकर महावीर विश्वविद्यालय
Teerthanker Mahaveer University
An Ultimate Destination for World Class Education

COURSE FILE

FACULTY OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Program	:	B.Tech. CSE
Academic Year	:	2019-20
Faculty Member	:	Ms. Anu Sharma
Faculty Email Id	:	anu.computers@tmu.ac.in
Course Name	:	Software Project Management
Course Code	:	ECS 704
Semester	:	VII


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Moradabad

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S. No.	Description	Yes	No
1	Academic calendar	√	
2	Individual faculty time table	√	
3	Syllabus	√	
4	Hand Outs	√	
5	Class Tests (CTs) I, II, & III	√	
6	Award List (Internal) I, II, & III	√	
7	Rubrics List for Internal Practical Assessment(<i>Only for Lab Courses</i>)	N.A.	
8	Identification of Slow Learners	√	
9	Special classes with attendance sheet of slow learners with ATR after each CT	√	
10	Assignments	√	
11	Question Bank	√	
12	Attendance Sheet (Month-wise)	√	
13	E-contents (web links)	√	


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1. Academic Calendar Session: 2019-20

Activity	Odd Semester	Even Semester
Commencement of Semester	August 01, 2019 (<i>All Programmes</i>) : Two weeks induction programme for new students at the commencement	January 08, 2020 (<i>All Programmes</i>)
Last date of depositing Semester Tuition Fee (without late fee fine)	August 20, 2019	January 20, 2020
Founders Day	September 14, 2019	-
Sports Events	College trials and teams : 17-19 October, 2019	TMU Intercollegiate : February 10 – 21, 2020
CT-I	September 26 - 28, 2019	Feb 27 – 29, 2020
Diwali & Holi Break (<i>for students only</i>)	October 28 – November 02, 2019	March 09 – 14, 2020
CT-II	October 25, November 04 & 05, 2019	April 09 – 11, 2020
Last day of Submission of Examination Form	October 19, 2019	March 21, 2020
Last Teaching Day of Semester	December 04, 2019	May 06, 2020
Preparatory leave & CT - III	December 05-07, 2019	May 07 – 09, 2020
External Examination (Theory & Practical)	December 09 – 27, 2019	May 11 – 30, 2020
Vacation/Education Tour/Training for students/ FDPs	December 28, 2019 – January 07, 2020	June 01 – July 31, 2020

Note:

- 1) Students of all the programmes are required to register themselves on or before the commencement of every semester.
- 2) If last date falls on a non-working day, the immediate next working day shall be treated as last date.
- 3) Dates may change due to unavoidable circumstances.


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2. Individual Time Table

3106	9:00-9:55	9:55-10:50	10:50-11:05	11:05-11:55	11:55-12:45	12:45-1:45	1:45-2:35	2:35-3:25	3:25 - 4:15
MON			T E A B R E A K						
TUE				ECS 704	ECS 704				
WED									
THU									
FRI				ECS 704	ECS 704				
SAT									

3. Syllabus

Course Code: ECS704	B.Tech (CSE) Semester VII (2019-2020) SOFTWARE PROJECT MANAGEMENT	L-3 T-1 P-0 C-3.5
Course Outcomes:	To learn the processes that exist primarily for supporting the management of software development, and are generally skewed toward addressing business concerns.	
CO1.	Understanding the processes that exist primarily for supporting the management of software development, and are generally skewed toward addressing business concerns	
CO2.	Understanding the concepts to address specific management needs at the individual, team division and/or organizational level	
CO3.	Applying a strong working knowledge of ethics and professional responsibility. Understanding effective organizational leadership and change skills for managing projects, project teams, and stakeholders.	
CO4.	Analyzing the leadership effectiveness in organizations ,team-building skills required to support successful performance	
CO5.	Analyzing the selection and initiation of individual projects and of portfolios of projects in the enterprise.	
CO6.	Analyzing project planning activities that accurately forecast project costs, timelines, and quality. Implement processes for successful resource, communication, and risk and change management.	
CO7.	Developing Practical applications of project management to formulate strategies allowing organizations to achieve strategic goals	
Course Content:		
Unit-1:	Project Management: Introduction to Software Project Management, Need identification, Project Management Life Cycle, Project Initiation, Project Evaluation, Project Plan, Types of Project Plan, Milestones- Major and Minor Software Metrics: What and Why, Role of Metrics and Measurement, Scope of Software Metrics, Types of Software Metrics: Project Metrics, Process Metrics, Product Metrics, and Function based Metrics	8 Hours
Unit-2:	Life Cycle Phases: Project Life Cycle and Product Life Cycle, Engineering and Production Stages: Inception, Elaboration, Construction, Transition Phases. Project Management Artifacts:: The Artifact Sets: Management Artifacts, Engineering Artifacts, Programmatic Artifacts. Project Planning: Objective, Milestone based planning, Resource Allocation, Critical Path, Project Elements, Size Estimation – Lines of Code (LOC), Work Breakdown Structures (WBS) and Function Point (FP), Effort Estimation, Cost Estimation	8 Hours
Unit-3:	Project Scheduling: CPM, PERT, Gantt Chart, Cost-Time Relations, Re-works Project Monitoring and Control: Dimensions of Project Monitoring and Control, Software Reviews, Type of Reviews – Inspections, Walkthroughs, Code Reviews Improving Software Economics: Reducing Software Product Size; Improving Software Processes: Improving Team, Effectiveness, Improving Automation, Achieving Required Quality, Peer Inspections.	8 Hours
Unit-4:	Risk Management: Software Risks, Risk Identification, Risk Mitigation, Monitoring and Management Change Management: Exploring Challenges, Risking Comfort Zone, Managing Change Configuration Management: Baseline, Configurations Items(CIs), SCM Process, Version Control, Configuration Audit	8 Hours

Unit-5:	Quality Management: Quality Concept, Quality Control, Quality Assurance, ISO 9000 certification for software industry; SEI capability maturity model (CMMI); ISO vs. SEI CMMI, Six-Sigma Overview, Software Reviews, Software Measurements and metrics for Quality	8 Hours
Text Books:	1. Walker, R., <i>Software Project Management</i> , Pearson Education	
Reference Books:	1. Shere, K. D., <i>Software Engineering and Management</i> , Prentice Hall	
Additional Electronic Reference Material:	1. https://www.youtube.com/watch?v=1xFZ7ZVVJeA&list=PLXcPnJsWbdxujUIptbSdeJXC0Jd-InxFG 2. https://www.youtube.com/watch?v=nlh9V5gd8hg&list=PLbMVogVj5nJQ20ZixllzM69agBq-m8ndV 3. https://www.youtube.com/watch?v=cFOZplkRqsk	

4. Handouts

Session Plan:

SN	Topics	Pedagogy	References	Session outcome (Bloom's Taxonomy)	Course Outcome (COs)
1.	UNIT-I Project Management: Introduction to Software Project Management	Lecture & discussion	R4	L1,L2	CO1, CO2
2.	Need identification, Project Management Life Cycle	Lecture & discussion	R4 & R5	L1,L2 & L4	CO1, CO2
3.	Project Initiation, Project Evaluation, Project Plan	Lecture & discussion	R4	L1,L2, L3	CO1, CO2
4.	Types of Project Plan, Milestones- Major and Minor	Lecture & discussion	R4, R5	L1,L2	CO1, CO2
5.	Software Metrics: What and Why, Role of Metrics and Measurement	Lecture & discussion	R2	L1,L2, L3	CO1, CO2
6.	Scope of Software Metrics, Types of Software Metrics	Lecture discussion	R3, R4	L1,L3,L4	CO1, CO2
7.	Project Metrics, Process Metrics, Product Metrics	Lecture & discussion	R2, R4,R5	L1,L2	CO1, CO2
8.	Function based Metrics	Lecture, discussion	R2, R4	L1,L2,L3,L6	CO1, CO2
9.	UNIT-II: Life Cycle Phases: Project Life Cycle and Product Life Cycle	Lecture, discussion	R4	L1,L6	CO1,CO2, CO4
10.	Engineering and Production Stages: Inception, Elaboration, Construction, Transition Phases	Lecture, discussion	R1,R4	L1, L2	CO1,CO2, CO3, CO4,CO5
11.	Project Management Artifacts: The Artifact Sets	Lecture, discussion	R5,R6	L1,L3	CO1,CO2, CO3, CO4,CO5
12.	Management Artifacts, Engineering Artifacts, Programmatic Artifacts	Lecture & discussion	R3,R4	L1,L2,L6	CO2, CO3
13.	Project Planning: Objective, Milestone based planning	Lecture, discussion & Demonstration	R4,R5	L1,L3,L6	CO1, CO3
14.	Resource Allocation, Critical Path, Project Elements, Size Estimation	Lecture, discussion & Demonstration	R3,R5	L1,L2,L3	CO1, CO3
15.	Lines of Code (LOC), Work Breakdown Structures (WBS) and	Lecture, discussion & Demonstration	R3	L1,L3	CO1, CO3

	Function Point (FP)				
16.	Effort Estimation, Cost Estimation	Lecture & discussion	R3	L1,L2	CO1,CO2, CO3, CO4,CO5
17.	Unit-III: Project Scheduling: CPM, PERT	Lecture, discussion	R2	L1,L2,L5	CO1,CO2
18.	Gantt Chart, Cost-Time Relations, Re-works	Lecture, discussion	R5,R6	L1,L2,L3,L5	CO1,CO2,CO3
19.	Project Monitoring and Control	Lecture, discussion & Demonstration	R5,R6	L1,L2,L3,L5	CO1,CO2,CO3
20.	Dimensions of Project Monitoring and Control	Lecture, discussion & Demonstration	R5,R6	L1,L2,L3,L5	CO1,CO3
21.	Software Reviews, Type of Reviews	Lecture, discussion & Demonstration	R5,R6	L1,L2,L3,L5	CO1,CO2,CO3
22.	Inspections, Walkthroughs, Code Reviews	Lecture, discussion	R5,R6	L1,L2,L3,L5	CO1,CO2,CO3, CO4
23.	Improving Software Economics: Reducing Software Product Size; Improving Software	Lecture, discussion	R4	L1,L2,L3,L6	CO1,CO3,CO5
24.	Unit-IV: Risk Management: Software Risks, Risk Identification	Lecture, discussion	R3, R4	L1,L2,L3,L6	CO1,CO2,CO3
25.	Risk Mitigation, Monitoring and Management	Lecture, discussion & Demonstration	R3,R4	L1,L2,L3,L6	CO1,CO2,CO4, CO5
26.	Interconnectedness and mutual fulfillment among the four orders of nature	Lecture, discussion & Demonstration	R3,R4	L1,L2,L3,L6	CO1,CO2,CO5
27.	Change Management	Lecture, discussion	R3,R4	L1,L2,L3,L6	CO1,CO2,CO3
28.	Exploring Challenges, Risking Comfort Zone, Managing Change	Lecture, discussion	R3,R1	L1,L2,L3,L6	CO1,CO4,CO4
29.	Configuration Management	Lecture, discussion	R3,R2,R6	L1,L2,L3,L6	CO1,CO2,CO4
30.	Baseline, Configurations Items(CIs)	Lecture, discussion	R3	L1,L2,L3,L6	CO1,CO4
31.	SCM Process, Version Control	Lecture, discussion	R3	L1,L2,L3,L6	CO1,CO3,CO4
32.	Unit-V: Quality Management	Lecture, discussion & Demonstration	R3	L1,L2,L3,L6	CO1,CO2,CO4
33.	Quality Concept, Quality Control	Lecture, discussion	R3	L1,L2,L3,L6	CO1,CO3,CO4

34.	Quality Assurance	Lecture, discussion & Demonstration	R3	L1,L2,L3,L6	CO1,CO2,CO4
35.	ISO 9000 certification for software industry	Lecture, discussion	R3	L1,L2,L3,L6	CO1,CO2,CO5
36.	SEI capability maturity model (CMMI)	Lecture, discussion	R3	L1,L2,L3,L6	CO1,CO2,CO5
37.	ISO vs. SEI CMMI	Lecture, discussion	R3	L1,L2,L3,L6	CO1,CO2,CO4
38.	Six-Sigma Overview	Lecture, discussion & Demonstration	R3	L1,L2,L3,L6	CO1,CO2,CO3
39.	Software Reviews	Lecture, discussion & Demonstration	R3	L1,L2,L3,L6	CO1,CO2
40.	Software Measurements and metrics for Quality	Lecture, discussion & Demonstration	R3	L1,L2,L3	CO1,CO2,CO3

L1= Remembering, L2= Understanding, L3=Applying, L4=Analyzing, L5=Evaluating, L6=Creating

Evaluation Scheme

Attendance 20 %

Assignment 20%

CT1 Exam 20 %

CT2 Exam 20 %

CT3 Exam 20 %

Note: There is a consideration of best two CT's.

5. Class Test (CT) Question Papers

CT-I



Faculty of Engineering

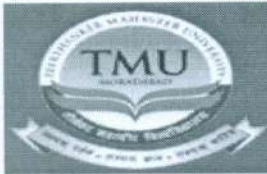
First Internal Class Test

B.Tech. (Computer Science & Engineering)

Year: IV	Academic Year: 2019–2020	Semester: VII
Course Code: ECS 704	Course Title: Software Project Management	
Duration: 90 minutes		Max. Marks: 30'

Attempt all questions.

1.	Answer any five questions	Marks	Unit	CO	BTL
a.	What Keeps a Project Manager awake at night?	2	1 & 2	CO1	1
b.	Mention Reasons to End a Project	2		CO1	1
c.	Name 4 different Types of Project Plan (description is not required)	2		CO1	1
d.	Describe Function based Metrics. Give 2 Examples.	2		CO1	2
e.	Mention benefits of Software Metrics	2		CO1	2
f.	Describe Programming Set Artifacts. Give 4 Examples.	2		CO1	2
g.	What is Major & Minor Milestones?	2		CO1	2
h.	Give 4 reasons – Why use Milestones in Software Development?	2		CO1	4
2.	What is a Project Plan and it covers what? Describe any two Types of Project Plan.	10	1	CO2	2
	OR				
	Explain Project Management Process with help of a Diagram. Describe what happens in “Project Initiation” & “Project Closure”		1	CO2	3
3.	Describe “Project Management Artifacts” and it's 2 organized set. Explain “Project Management Process” vs. “Project Process” with help of a diagram.	10	2	CO1	2
	OR				
	Show Product Life Cycle, Project Life Cycle, Operation Life Cycle, Software Development Life Cycle with help of a SINGLE diagram. Name the Project Elements and it's associated tasks or activities.		2	CO1	4



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Faculty of Engineering
Second Internal Class Test

B.Tech. (Computer Science & Engineering)

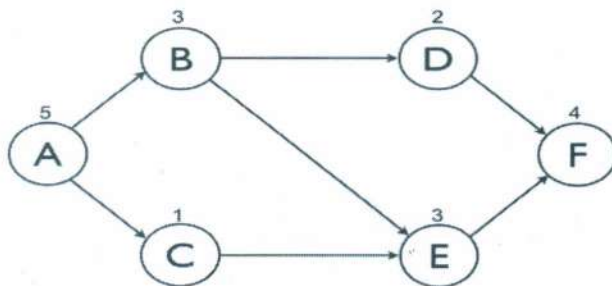
Year: IV	Academic Year: 2019-2020	Semester: VII
Course Code: ECS 704	Course Title: Software Project Management	
Duration: 90 minutes		Max. Marks: 30

Attempt all questions.

1.	Answer any five questions	Marks	Unit	CO	BTL
a.	Describe any two Project Elements.	2	3 & 4	CO1	2
b.	Describe Estimation Steps.	2		CO1	1
c.	Write down the formula for Adjusted Function Point (AFP) and full form of GSC?	2		CO1	2
d.	Work Breakdown Structure (WBS) helps in what?	2		CO1	2
e.	Define NODE, ARROW and CRITICAL PATH.	2		CO1	2
f.	Describe "People" aspect of Project Management dimensions.	2		CO1	2
g.	Mention Software Review benefits.	2		CO1	2
h.	Name (only) any 4 Cost Model Parameters affect Software Economics	2		CO1	2
2.	Draw a graph to show relationship among Size, Effort, Resource, Cost & Time. Write down the unit of measurement for each parameter. Do write formula for Effort Estimation and steps for Cost Estimation.	10	3	CO3	2
	OR				

Fill the details in the table by looking at the Network Diagram below. Draw all possible PATHS and hence circle the CRITICAL and it's duration (in days).

Activity	Duration(in Days)	Predecessor
A		
B		
:		
:		



4 CO4 3

Describe "Types of Reviews" with their Goals, Attributes & Examples. Mention rules for Reviews.

OR

Describe Process Trends for 3-Generations of Software Economics in tabular format. Give an overview of Software Economics.

10

4 CO1 2

3 CO1 4

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Third Internal Class Test

B.Tech. (Computer Science & Engineering)

Year: IV	Academic Year: 2019-2020	Semester: VII
Course Code: ECS 704	Course Title: Software Project Management	
Duration: 90 minutes		Max. Marks: 30

Attempt all questions.

1.	Answer any five questions	Marks	Unit	CO	BTL
a.	Define Risk & Risk Management	2	1, 3 & 4	CO1	2
b.	Describe steps for Risk Management Process	2		CO2	1
c.	Define Change Management	2		CO1	2
d.	Describe Configuration Management Tasks	2		CO4	2
e.	Distinguish Quality Assurance vs. Quality Control	2		CO5	2
f.	Name (ONLY) Six-Sigma methodologies	2		CO1	1
g.	Mention <u>Customer</u> Benefits from ISO 9000	2		CO2	2
h.	Define Software Measurement	2		CO3	1
2.	Describe various phases of Change Management. Describe steps to manage software changes.	10	5	CO3	2
	OR				
	Elaborate on Version & Access Control. Define Baseline and Configuration Items (CI).		4	CO4	3
3.	Describe 5 levels of Maturity of CMMI. Elaborate on Six-Sigma vs. CMMI vs. ISO 9001 in tabular format	10	5	CO5	2
	OR				
	Define Software Metrics and describe types of Software Metrics with Examples. What are various Measurement Types? Give examples for each.		4	CO1	4

6. Award List (Internal) Marks out of 30

			CT-1	CT-2	CT-3
1	TCA1609001	AARADHYA JAIN	22	21	18.0
2	TCA1609002	AARUSHI JAIN	19	26	A
3	TCA1609003	AMRITA KUMARI	14	A	12.9
4	TCA1609004	AAYUSH JAIN	22	25	29.1
5	TCA1609005	AAYUSHI JAIN	16	19	23.1
6	TCA1609006	AAYUSHI JAIN	19	24	A
7	TCA1609007	ABDUL KAFEEL	11	17	15.0
8	TCA1609008	ABDUL KAREEM	21	27	30.0
9	TCA1609009	ABHISHEK JAIN	15	22	18.0
10	TCA1609010	ABHISHEK JAIN	28	A	29.1
11	TCA1609013	ADHYATMA JAIN	25	18	A
12	TCA1609016	AKSHAT JAIN	17	A	27.0
13	TCA1609017	AKSHITA JAIN	21	A	27.0
14	TCA1609018	AMAN JAIN	18	30	21.0
15	TCA1609021	AMOL JAIN	19	A	27.9
16	TCA1609026	ANVITA JAIN	18	A	21.9
17	TCA1609029	AYUSH JAIN	25	22	18.0
18	TCA1609030	AYUSH JAIN	26	A	27.0
19	TCA1609034	AYUSHI JAIN	25	A	27.9
20	TCA1609036	DHEERAJ JAIN	22	A	29.1
21	TCA1609043	GOUTAM VOHRA	26	A	18.9
22	TCA1609045	HARSH JAIN	22	A	24.0
23	TCA1609047	HIMANI JAIN	27	A	29.1
24	TCA1609049	JATIN JAIN	25	24	27.0
25	TCA1609051	MAHAK ARA	21	23	A
26	TCA1609058	MD SHAMSHAD	23	30	A
27	TCA1609060	MITANSHU MEHTA	17	A	24.9
28	TCA1609062	MOHD AAMIR	20	26	27.9
29	TCA1609065	MOHIT JAIN	23	29	24.0
30	TCA1609067	NAMAN JAIN	18	21	26.1
31	TCA1609069	NAMITA PRADHAN	23	A	24.0
32	TCA1609075	PRAGATI JAIN	20	A	24.0

33	TCA1609076	PRAGATI JAIN	21	16	15.0
34	TCA1609079	PRANJAL JAIN	22	25	27.9
35	TCA1609081	PRIYANSHI JAIN	17	23	A
36	TCA1609082	PRIYANSHU JAIN	29	27	A
37	TCA1609088	RITIK JAIN	26	25	A
38	TCA1609089	RITIKA JAIN	17	24	23.1
39	TCA1609090	RIYA JAIN	24	A	20.1
40	TCA1609092	SAHIL JAIN	22	28	A
41	TCA1609095	SAJAL GUPTA	16	28	A
42	TCA1609096	SAMBHAV JAIN	23	27	24.0
43	TCA1609097	SAMBHAV KUMAR JAIN	20	A	21.9
44	TCA1609100	SANKALP JAIN	18	25	21.0
45	TCA1609101	SARTHAK JAIN	18	26	24.0
46	TCA1609102	SAUMYA JAIN	19	29	A
47	TCA1609111	SHUBHAM KUMAR JAIN	29	29	A
48	TCA1609113	SIDDHARTH JAIN	19	28	23.1
49	TCA1609115	SINJANEE JAIN	4	15	5.1
50	TCA1609117	SMRATI JAIN	22	22	A
51	TCA1609118	SOMYA JAIN	17	22	A
52	TCA1609119	SONALI JAIN	23	25	23.1
53	TCA1609121	SUBHAM JAIN	25	A	24.9
54	TCA1609125	UPVAN JAIN	24	A	17.1
55	TCA1609126	URVASHI TYAGI	21	A	12.9
56	TCA1609127	VAIBHAV JAIN	12	A	9.9
57	TCA1609129	VIKASH JAIN	18	25	29.1
58	TCA1609133	YASHI SHARMA	15	A	20.1
59	TCA1609135	ABHISHEK JAIN	22	19	A
60	TCA1609136	VIBHOR JAIN	25	23	A
61	TCA1711001	SANSKRITI JAIN	21	19	A
62	TCA1711002	VIJAY KUMAR TOMAR	18	18	15.0
63	TCA1711003	VAIBHAV JAIN	8	17	5.1
64	TCA1711005	MOHFEEZ AHMAD	17	A	9.9
65	TCA1711006	SHRUTIKA KHANAK	15	27	A
66	TCA1711010	VAISHALI	27	29	A

7. Identification of Slow Learners

Slow Learners After First CT				Criteria
1	TCA1609003	AMRITA KUMARI	14	CT1_Marks<60%
2	TCA1609005	AAYUSHI JAIN	16	
3	TCA1609007	ABDUL KAFEEL	11	
4	TCA1609016	AKSHAT JAIN	17	
5	TCA1609060	MITANSHU MEHTA	17	
6	TCA1609081	PRIYANSHI JAIN	17	
7	TCA1609089	RITIKA JAIN	17	
8	TCA1609095	SAJAL GUPTA	16	
9	TCA1609115	SINJANEE JAIN	4	
10	TCA1609118	SOMYA JAIN	17	
11	TCA1609127	VAIBHAV JAIN	8	
12	TCA1609133	YASHI SHARMA	15	
13	TCA1711005	MOHFEEZ AHMAD	17	
14	TCA1711006	SHRUTIKA KHANAK	15	

Slow Learners After Second CT				Criteria
1	TCA1609115	SINJANEE JAIN	15	CT2_Marks<60%
2	TCA1711003	VAIBHAV JAIN	17	

8. Special classes with attendance sheet of slow learners with ATR after each CT

- Topics have been identified for slow learners after CTs as given below
 - Value Education
 - Introduction to Value Education
- After special/remedial classes circular , classes had been taken as per below attendance sheet

Classes for Slow Learners After First CT			Date/Month			
S.NO.	Enrollment No.	Name	2/9	5/9	10/9	11/9
1	TCA1609003	AMRITA KUMARI		P	P	P
2	TCA1609005	AAYUSHI JAIN	P	P	P	
3	TCA1609007	ABDUL KAFEEL	P	P	P	
4	TCA1609016	AKSHAT JAIN	P	P		P
5	TCA1609060	MITANSHU MEHTA	P			P
6	TCA1609081	PRIYANSHI JAIN		P	P	P
7	TCA1609089	RITIKA JAIN	P	P	P	
8	TCA1609095	SAJAL GUPTA		P	P	P
9	TCA1609115	SINJANEE JAIN	P	P	P	
10	TCA1609118	SOMYA JAIN	P	P	P	
11	TCA1609127	VAIBHAV JAIN	P	P		P
12	TCA1609133	YASHI SHARMA	P			P
13	TCA1711005	MOHFEEZ AHMAD		P	P	P
14	TCA1711006	SHRUTIKA KHANAK	P	P	P	

- After Second CT-2 no students was below criteria

9. Assignments



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Faculty of Engineering Assignment

Program: BTECH (CSE)

Course Name: Software Project Management

Semester: VII

Total Marks: 10

Branch/Section:

Course Code: EAS704

Faculty: Mr. Namit Gupta

Submission Date: 27/Nov/2019

Instructions:

- [1] What is system?
- [2] Explain types of maintenance in brief.
- [3] What is Structured English?
- [4] What is the need of input form in system design?
- [5] Write down the steps involved in preparing user manuals.
- [6] How does GUI make system user friendly?
- [7] What is system validation?
- [8] What is entity and attributes in ER diagram?

Q.1. What is top-down & bottom-up approach in system designing?

Q.2. Why system testing is essential? Explain the types of testing in detail?

Q.3. Why system modules should have low coupling and high cohesion? Justify your answer?

Q.4. What are the traditional methods for determining system requirements?

Q.5 Explain the following

- DFD
- Decision Tree
- Decision Table
- Data Dictionary?

10.Question Bank



Year: 2nd	Academic Year: 2019-20	Semester: 3rd
Course Code:EAS303	Course Name: Human Values & Professional Ethics	
Duration:		Max. Marks:

Q1. Short answer type questions.

4*2=8

- [1] What are the main principles of system documentation?
- [2] Difference between product documentation and process documentation?
- [3] Explain various types of feasibility studies?
- [4] What is legal and ethical feasibility?

Q2. Medium answer type questions.

3*5=15

- a. What are the steps in making feasibility study?
- b. Define System prototyping with diagram?
- c. Who are the participants in the joint application development (JAD)?
- d. Wright down the short note on Requirements, Architecture Design and Technical documentation?

Q3. Long answer type questions.

3*10=30

- [1] What is System Documentation? Explain different types of System Documentation?
- [2] What are the differences between System documentation and user documentation?
- [3] What are fact finding process and its techniques in system analysis?

11. Attendance Sheet (Month-wise) Attendance for the month of August 2019

S. No.	Enrollment	Date Month	18	19	24	26	31
			Aug	Aug	Aug	Aug	Aug
S. No.	Enrollment	Student's Name					
1	TCA1609001	AARADHYA JAIN	P	P		P	P
2	TCA1609002	AARUSHI JAIN	P	P	P	P	P
3	TCA1609003	AMRITA KUMARI	P	P		P	
4	TCA1609004	AAYUSH JAIN	P		P	P	P
5	TCA1609005	AAYUSHI JAIN	P	P	P	P	P
6	TCA1609006	AAYUSHI JAIN			P	P	
7	TCA1609007	ABDUL KAFEEL	P		P	P	P
8	TCA1609008	ABDUL KAREEM	P	P		P	P
9	TCA1609009	ABHISHEK JAIN	P	P	P	P	P
10	TCA1609010	ABHISHEK JAIN	P	P		P	P
11	TCA1609013	ADHYATMA JAIN	P	P		P	
12	TCA1609016	AKSHAT JAIN	P	P	P	P	P
13	TCA1609017	AKSHITA JAIN	P	P		P	P
14	TCA1609018	AMAN JAIN		P	P	P	P
15	TCA1609021	AMOL JAIN	P		P	P	P
16	TCA1609026	ANVITA JAIN	P	P	P	P	
17	TCA1609029	AYUSH JAIN	P	P	P		P
18	TCA1609030	AYUSH JAIN	P	P		P	P
19	TCA1609034	AYUSHI JAIN	P		P	P	P
20	TCA1609036	DHEERAJ JAIN		P	P	P	P
21	TCA1609043	GOUTAM VOHRA	P		P	P	P
22	TCA1609045	HARSH JAIN	P	P		P	P
23	TCA1609047	HIMANI JAIN	P	P	P		P
24	TCA1609049	JATIN JAIN	P	P	P	P	
25	TCA1609051	MAHAK ARA	P	P	P	P	P
26	TCA1609058	MD SHAMSHAD	P		P	P	
27	TCA1609060	MITANSHU MEHTA	P	P	P		P
28	TCA1609062	MOHD AAMIR	P	P	P		P
29	TCA1609065	MOHIT JAIN	P	P		P	P
30	TCA1609067	NAMAN JAIN	P		P	P	P
31	TCA1609069	NAMITA PRADHAN	P	P		P	P
32	TCA1609075	PRAGATI JAIN	P	P	P		P
33	TCA1609076	PRAGATI JAIN	P	P	P	P	
34	TCA1609079	PRANJAL JAIN	P	P		P	P
35	TCA1609081	PRIYANSHI JAIN	P	P	P	P	P

36	TCA1609082	PRIYANSHU JAIN	P	P		P	
37	TCA1609088	RITIK JAIN	P		P	P	P
38	TCA1609089	RITIKA JAIN	P	P	P	P	P
39	TCA1609090	RIYA JAIN			P	P	
40	TCA1609092	SAHIL JAIN	P		P	P	P
41	TCA1609095	SAJAL GUPTA	P	P		P	P
42	TCA1609096	SAMBHAV JAIN	P	P	P	P	P
43	TCA1609097	SAMBHAV KUMAR JAIN	P	P		P	P
44	TCA1609100	SANKALP JAIN	P	P		P	
45	TCA1609101	SARTHAK JAIN	P	P	P	P	P
46	TCA1609102	SAUMYA JAIN	P	P		P	P
47	TCA1609111	SHUBHAM KUMAR JAIN		P	P	P	P
48	TCA1609113	SIDDHARTH JAIN	P		P	P	P
49	TCA1609115	SINJANEE JAIN	P	P	P	P	
50	TCA1609117	SMRATI JAIN	P	P	P		P
51	TCA1609118	SOMYA JAIN	P	P		P	P
52	TCA1609119	SONALI JAIN	P		P	P	P
53	TCA1609121	SUBHAM JAIN	P	P	P	P	P
54	TCA1609125	UPVAN JAIN	P	P		P	P
55	TCA1609126	URVASHI TYAGI		P	P	P	P
56	TCA1609127	VAIBHAV JAIN	P		P	P	P
57	TCA1609129	VIKASH JAIN	P	P	P	P	
58	TCA1609133	YASHI SHARMA	P	P	P		P
59	TCA1609135	ABHISHEK JAIN	P	P		P	P
60	TCA1609136	VIBHOR JAIN	P	P	P	P	P
61	TCA1711001	SANSKRITI JAIN	P	P		P	P
62	CA1711002	VIJAY KUMAR TOMAR		P	P	P	P
63	TCA1711003	VAIBHAV JAIN	P		P	P	P
64	TCA1711005	MOHFEEZ AHMAD	P	P	P	P	
65	TCA1711006	SHRUTIKA KHANAK	P	P		P	P
66	TCA1711010	VAISHALI	P		P	P	P

Attendance for the month of September 2019

		Date	1	2	7	8	9	13	14	15	16	21	22	23	27	28	29	30
		Month	Se p	Se p	Se p	Se p	Se p	Se p	Se p	Se p	Se p	Se p	Se p	Se p	Se p	Se p	Se p	Se p
S. No	Enrollment No.	Student's Name	P		P	P	P	P	P	P	P	P	P	P	P	P	P	
1	TCA1609001	AARADH YA JAIN	P	P		P	P	P	P	P		P	P	P	P	P	P	
2	TCA1609002	AARUSHI JAIN	P	P	P	P	P	P	P	P	P		P	P	P	P	P	P
3	TCA1609003	AMRITA KUMARI	P	P		P		P	P	P	P	P		P	P	P	P	P
4	TCA1609004	AAYUSH JAIN	P		P	P	P	P	P	P	P	P	P	P	P	P	P	
5	TCA1609005	AAYUSHI JAIN	P	P	P	P	P	P	P	P	P		P	P	P	P	P	P
6	TCA1609006	AAYUSHI JAIN			P	P		P	P	P	P	P		P	P	P	P	
7	TCA1609007	ABDUL KAHEEL	P		P	P	P	P	P	P	P	P	P		P	P		P
8	TCA1609008	ABDUL KAREEM	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P
9	TCA1609009	ABHISHE K JAIN	P	P	P	P	P	P	P	P		P	P	P	P		P	P
10	TCA1609010	ABHISHE K JAIN	P	P		P	P	P	P		P	P	P	P	P		P	P
11	TCA1609013	ADHYAT MA JAIN	P	P		P		P	P		P	P	P	P	P		P	P
12	TCA1609016	AKSHAT JAIN	P	P	P	P	P	P	P	P	P	P	P	P		P	P	
13	TCA1609017	AKSHITA JAIN	P	P		P	P	P	P		P	P	P	P	P	P	P	P
14	TCA1609018	AMAN JAIN		P	P	P	P	P	P	P		P			P	P	P	
15	TCA1609021	AMOL JAIN	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	TCA1609026	ANVITA JAIN	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P
17	TCA1609029	AYUSH JAIN	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P
18	TCA1609030	AYUSH JAIN	P	P		P	P	P	P	P	P	P	P	P	P		P	
19	TCA1609034	AYUSHI JAIN	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P
20	TCA1609036	DHEERAJ JAIN		P	P	P	P	P	P	P		P	P	P	P	P	P	P
21	TCA1609043	GOUTAM VOHRA	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P
22	TCA1609045	HARSH JAIN	P	P		P	P	P	P	P	P	P		P	P	P	P	P
23	TCA1609047	HIMANI JAIN	P	P	P		P	P	P	P	P	P	P		P	P	P	P
24	TCA1609049	JATIN JAIN	P	P	P	P		P	P	P	P	P	P	P		P	P	P

25	TCA1609051	MAHAK ARA	P	P	P	P	P	P	P	P	P	P	P	P	P	P		P	P
26	TCA1609058	MD SHAMSH AD	P		P	P		P	P	P	P	P	P	P	P	P	P		P
27	TCA1609060	MITANSH U MEHTA	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P
28	TCA1609062	MOHD AAMIR	P	P	P		P	P		P	P	P	P	P		P			P
29	TCA1609065	MOHIT JAIN	P	P		P	P	P		P			P		P	P	P	P	P
30	TCA1609067	NAMAN JAIN	P		P	P	P	P		P	P	P		P	P	P	P	P	P
31	TCA1609069	NAMITA PRADHA N	P	P		P	P	P	P	P	P		P	P	P	P	P	P	P
32	TCA1609075	PRAGATI JAIN	P	P	P		P	P	P	P		P	P	P	P	P	P	P	P
33	TCA1609076	PRAGATI JAIN	P	P	P	P		P	P	P	P			P		P	P		
34	TCA1609079	PRANJAL JAIN	P	P	P	P	P	P	P	P	P	P	P	P			P	P	
35	TCA1609081	PRIYANS HI JAIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
36	TCA1609082	PRIYANS HU JAIN	P	P		P	P			P		P		P		P	P		
37	TCA1609088	RITIK JAIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
38	TCA1609089	RITIKA JAIN		P	P	P	P	P		P	P	P	P	P	P	P	P	P	P
39	TCA1609090	RIYA JAIN	P	P		P	P	P	P	P	P		P		P	P	P	P	P
40	TCA1609092	SAHIL JAIN	P	P	P		P	P	P	P	P	P	P	P	P		P	P	
41	TCA1609095	SAJAL GUPTA	P	P	P	P	P	P	P		P			P	P	P			P
42	TCA1609096	SAMBHA V JAIN	P	P	P	P		P	P		P	P	P						P
43	TCA1609097	SAMBHA V KUMAR JAIN		P		P	P	P	P	P	P	P	P	P	P	P	P	P	P
44	TCA1609100	SANKALP JAIN	P	P	P	P	P	P	P		P	P		P	P	P	P	P	P
45	TCA1609101	SARTHAK JAIN	P		P	P		P	P		P	P		P	P	P	P	P	P
46	TCA1609102	SAUMYA JAIN	P		P	P		P	P	P	P	P	P	P	P	P			P
47	TCA1609111	SHUBHA M KUMAR JAIN	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P
48	TCA1609113	SIDDHAR TH JAIN	P	P	P		P	P		P	P	P	P	P		P			P
49	TCA1609115	SINJANEE JAIN	P	P		P	P	P		P			P		P	P	P	P	P

50	TCA1609117	SMRATI JAIN	P		P	P	P	P		P	P	P		P	P	P	P	P
51	TCA1609118	SOMYA JAIN	P	P		P	P	P	P	P	P		P	P	P	P	P	P
52	TCA1609119	SONALI JAIN	P	P	P		P	P	P	P		P	P	P	P	P	P	P
53	TCA1609121	SUBHAM JAIN	P	P	P	P		P	P	P	P		P		P	P		
54	TCA1609125	UPVAN JAIN	P	P	P	P	P	P	P	P	P	P	P			P	P	
55	TCA1609126	URVASHI TYAGI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
56	TCA1609127	VAIBHAV JAIN	P	P		P	P			P		P		P		P	P	
57	TCA1609129	VIKASH JAIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
58	TCA1609133	YASHI SHARMA		P	P	P	P	P		P	P	P	P	P	P	P	P	P
59	TCA1609135	ABHISHEK JAIN	P	P		P	P	P	P	P	P		P		P	P	P	P
60	TCA1609136	VIBHOR JAIN	P	P		P	P	P	P	P	P		P		P	P	P	P
61	TCA1711001	SANSKRITI JAIN	P	P	P		P	P	P	P	P	P	P	P	P		P	P
62	TCA1711002	VIJAY KUMAR TOMAR	P	P	P	P	P	P		P			P	P	P			P
63	TCA1711003	VAIBHAV JAIN	P	P	P	P		P	P		P	P	P					P
64	TCA1711005	MOHFEEZ AHMAD		P		P	P	P	P	P	P	P	P	P	P	P	P	P
65	TCA1711006	SHRUTIKA KHANAK	P	P	P	P	P	P	P		P	P		P	P	P	P	P
66	TCA1711010	VAISHALI	P	P	P		P	P	P	P	P	P	P	P	P		P	P

Attendance for the month of Oct 2019

		Date Month	1	2	7	8	9	13	14	15	16	21	22	23	27	28	29	30
			Oc t	Oc t	Oc t	Oc t	Oc t	Oc t	Oc t	Oc t	Oc t	Oc t	Oc t	Oc t	Oc t	Oc t	Oc t	Oc t
S. N o	Enrollment No.	Student's Name	P		P	P	P	P	P	P	P	P	P	P	P	P	P	
1	TCA1609001	AARADHY A JAIN	P	P		P	P	P	P	P		P	P	P	P	P	P	
2	TCA1609002	AARUSHI JAIN	P	P	P	P	P	P	P	P	P		P	P	P	P	P	P
3	TCA1609003	AMRITA KUMARI	P	P		P		P	P	P	P	P		P	P	P	P	P
4	TCA1609004	AAYUSH JAIN	P		P	P	P	P	P	P	P	P	P	P	P	P	P	
5	TCA1609005	AAYUSHI JAIN	P	P	P	P	P	P	P	P	P		P	P	P	P	P	P
6	TCA1609006	AAYUSHI JAIN			P	P		P	P	P	P	P		P	P	P	P	
7	TCA1609007	ABDUL KAHEEL	P		P	P	P	P	P	P	P	P	P		P	P		P
8	TCA1609008	ABDUL KAREEM	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P
9	TCA1609009	ABHISHEK JAIN	P	P	P	P	P	P	P	P		P	P	P	P		P	P
10	TCA1609010	ABHISHEK JAIN	P	P		P	P	P	P		P	P	P	P	P		P	P
11	TCA1609013	ADHYATM A JAIN	P	P		P		P	P		P	P	P	P	P		P	P
12	TCA1609016	AKSHAT JAIN	P	P	P	P	P	P	P	P	P	P	P	P		P	P	
13	TCA1609017	AKSHITA JAIN	P	P		P	P	P	P		P	P	P	P	P	P	P	P
14	TCA1609018	AMAN JAIN		P	P	P	P	P	P	P		P			P	P	P	
15	TCA1609021	AMOL JAIN	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	TCA1609026	ANVITA JAIN	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P
17	TCA1609029	AYUSH JAIN	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P
18	TCA1609030	AYUSH JAIN	P	P		P	P	P	P	P	P	P	P	P	P		P	
19	TCA1609034	AYUSHI JAIN	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P
20	TCA1609036	DHEERAJ JAIN		P	P	P	P	P	P	P		P	P	P	P	P	P	P
21	TCA1609043	GOUTAM VOHRA	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P
22	TCA1609045	HARSH JAIN	P	P		P	P	P	P	P	P	P		P	P	P	P	P
23	TCA1609047	HIMANI JAIN	P	P	P		P	P	P	P	P	P	P		P	P	P	P
24	TCA1609049	JATIN JAIN	P	P	P	P		P	P	P	P	P	P	P		P	P	P

25	TCA1609051	MAHAK ARA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
26	TCA1609058	MD SHAMSHA D	P		P	P		P	P	P	P	P	P	P	P	P		P
27	TCA1609060	MITANSHU MEHTA	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P
28	TCA1609062	MOHD AAMIR	P	P	P		P	P		P	P	P	P	P		P		P
29	TCA1609065	MOHIT JAIN	P	P		P	P	P		P			P		P	P	P	P
30	TCA1609067	NAMAN JAIN	P		P	P	P	P		P	P	P		P	P	P	P	P
31	TCA1609069	NAMITA PRADHAN	P	P		P	P	P	P	P		P	P	P	P	P	P	P
32	TCA1609075	PRAGATI JAIN	P	P	P		P	P	P	P		P	P	P	P	P	P	P
33	TCA1609076	PRAGATI JAIN	P	P	P	P		P	P	P	P			P		P	P	
34	TCA1609079	PRANJAL JAIN	P	P	P	P	P	P	P	P	P	P	P	P			P	P
35	TCA1609081	PRIYANSH I JAIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
36	TCA1609082	PRIYANSH U JAIN	P	P		P	P			P		P		P		P	P	
37	TCA1609088	RITIK JAIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
38	TCA1609089	RITIKA JAIN		P	P	P	P	P		P	P	P	P	P	P	P	P	P
39	TCA1609090	RIYA JAIN	P	P		P	P	P	P	P	P		P		P	P	P	P
40	TCA1609092	SAHIL JAIN	P	P	P		P	P	P	P	P	P	P	P	P		P	P
41	TCA1609095	SAJAL GUPTA	P	P	P	P	P	P	P		P			P	P	P		P
42	TCA1609096	SAMBHAV JAIN	P	P	P	P		P	P		P	P	P					P
43	TCA1609097	SAMBHAV KUMAR JAIN		P		P	P	P	P	P	P	P	P	P	P	P	P	P
44	TCA1609100	SANKALP JAIN	P	P	P	P	P	P	P		P	P		P	P	P	P	P
45	TCA1609101	SARTHAK JAIN	P		P	P		P	P		P	P		P	P	P	P	P
46	TCA1609102	SAUMYA JAIN	P		P	P	P	P		P	P	P		P	P	P	P	P
47	TCA1609111	SHUBHAM KUMAR JAIN	P	P		P	P	P	P	P		P	P	P	P	P	P	P
48	TCA1609113	SIDDHART H JAIN	P	P	P		P	P	P	P		P	P	P	P	P	P	P
49	TCA1609115	SINJANEE JAIN	P	P	P	P		P	P	P	P			P		P	P	
50	TCA1609117	SMRATI JAIN	P	P	P	P	P	P	P	P	P	P	P			P	P	
51	TCA1609118	SOMYA JAIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

52	TCA1609119	SONALI JAIN	P	P		P	P			P		P		P		P	P	
53	TCA1609121	SUBHAM JAIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
54	TCA1609125	UPVAN JAIN		P	P	P	P	P		P	P	P	P	P	P	P	P	P
55	TCA1609126	URVASHI TYAGI	P	P		P	P	P	P	P		P		P	P	P	P	P
56	TCA1609127	VAIBHAV JAIN	P	P	P		P	P	P	P	P	P	P	P	P		P	P
57	TCA1609129	VIKASH JAIN	P	P	P	P	P	P	P		P			P	P	P		P
58	TCA1609133	YASHI SHARMA	P	P	P	P		P	P		P	P	P					P
59	TCA1609135	ABHISHEK JAIN		P		P	P	P	P	P	P	P	P	P	P	P	P	P
60	TCA1609136	VIBHOR JAIN	P	P		P	P	P	P	P		P		P	P	P	P	P
61	TCA1711001	SANSKRITI JAIN	P	P	P		P	P	P	P	P	P	P	P	P		P	P
62	TCA1711002	VIJAY KUMAR TOMAR	P	P	P	P	P	P	P		P			P	P	P		P
63	TCA1711003	VAIBHAV JAIN	P	P	P	P		P	P		P	P	P					P
64	TCA1711005	MOHFEEZ AHMAD		P		P	P	P	P	P	P	P	P	P	P	P	P	P
65	TCA1711006	SHRUTIKA KHANAK	P	P	P	P	P	P	P		P	P		P	P	P	P	P
66	TCA1711010	VAISHALI	P	P	P	P	P	P	P		P	P		P	P	P	P	P

Attendance for the month of Nov 2019

		Date Month	1	2	7	8	9	13	14	15	16	21	22	23	27	28	29	30
			No v	No v	No v	No v	No v	No v	No v	No v	No v	No v	No v	No v	No v	No v	No v	No v
S. N o.	Enrollme nt No.	Student's Name	P		P	P	P	P	P	P	P	P	P	P	P	P	P	
1	TCA16090 01	AARADH YA JAIN	P	P		P	P	P	P	P		P	P	P	P	P	P	
2	TCA16090 02	AARUSHI JAIN	P	P	P	P	P	P	P	P	P		P	P	P	P	P	P
3	TCA16090 03	AMRITA KUMARI	P	P		P		P	P	P	P	P		P	P	P	P	P
4	TCA16090 04	AAYUSH JAIN	P		P	P	P	P	P	P	P	P	P	P	P	P	P	
5	TCA16090 05	AAYUSHI JAIN	P	P	P	P	P	P	P	P	P		P	P	P	P	P	P
6	TCA16090 06	AAYUSHI JAIN			P	P		P	P	P	P	P		P	P	P	P	
7	TCA16090 07	ABDUL KAHEEL	P		P	P	P	P	P	P	P	P	P		P	P		P
8	TCA16090 08	ABDUL KAREEM	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P
9	TCA16090 09	ABHISHE K JAIN	P	P	P	P	P	P	P	P		P	P	P	P		P	P
10	TCA16090 10	ABHISHE K JAIN	P	P		P	P	P	P		P	P	P	P	P		P	P
11	TCA16090 13	ADHYAT MA JAIN	P	P		P		P	P		P	P	P	P	P		P	P
12	TCA16090 16	AKSHAT JAIN	P	P	P	P	P	P	P	P	P	P	P	P		P	P	
13	TCA16090 17	AKSHITA JAIN	P	P		P	P	P	P		P	P	P	P	P	P	P	P
14	TCA16090 18	AMAN JAIN		P	P	P	P	P	P	P		P			P	P	P	
15	TCA16090 21	AMOL JAIN	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	TCA16090 26	ANVITA JAIN	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P
17	TCA16090 29	AYUSH JAIN	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P
18	TCA16090 30	AYUSH JAIN	P	P		P	P	P	P	P	P	P	P	P	P		P	
19	TCA16090 34	AYUSHI JAIN	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P
20	TCA16090 36	DHEERAJ JAIN		P	P	P	P	P	P	P		P	P	P	P	P	P	P
21	TCA16090 43	GOUTAM VOHRA	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P
22	TCA16090 45	HARSH JAIN	P	P		P	P	P	P	P	P	P		P	P	P	P	P
23	TCA16090 47	HIMANI JAIN	P	P	P		P	P	P	P	P	P	P		P	P	P	P
24	TCA16090 49	JATIN JAIN	P	P	P	P		P	P	P	P	P	P	P		P	P	P

25	TCA16090 51	MAHAK ARA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
26	TCA16090 58	MD SHAMSH AD	P		P	P		P	P	P	P	P	P	P	P	P		P
27	TCA16090 60	MITANSH U MEHTA	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P
28	TCA16090 62	MOHD AAMIR	P	P	P		P	P		P	P	P	P	P		P		P
29	TCA16090 65	MOHIT JAIN	P	P		P	P	P		P			P		P	P	P	P
30	TCA16090 67	NAMAN JAIN	P		P	P	P	P		P	P	P		P	P	P	P	P
31	TCA16090 69	NAMITA PRADHA N	P	P		P	P	P	P	P	P		P	P	P	P	P	P
32	TCA16090 75	PRAGATI JAIN	P	P	P		P	P	P	P		P	P	P	P	P	P	P
33	TCA16090 76	PRAGATI JAIN	P	P	P	P		P	P	P	P			P		P	P	
34	TCA16090 79	PRANJAL JAIN	P	P	P	P	P	P	P	P	P	P	P	P			P	P
35	TCA16090 81	PRIYANS HI JAIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
36	TCA16090 82	PRIYANS HU JAIN	P	P		P	P			P		P		P		P	P	
37	TCA16090 88	RITIK JAIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
38	TCA16090 89	RITIKA JAIN		P	P	P	P	P		P	P	P	P	P	P	P	P	P
39	TCA16090 90	RIYA JAIN	P	P		P	P	P	P	P	P		P		P	P	P	P
40	TCA16090 92	SAHIL JAIN	P	P	P		P	P	P	P	P	P	P	P	P		P	P
41	TCA16090 95	SAJAL GUPTA	P	P	P	P	P	P	P		P			P	P	P		P
42	TCA16090 96	SAMBHA V JAIN	P	P	P	P		P	P		P	P	P					P
43	TCA16090 97	SAMBHA V KUMAR JAIN		P		P	P	P	P	P	P	P	P	P	P	P	P	P
44	TCA16091 00	SANKALP JAIN	P	P	P	P	P	P	P		P	P		P	P	P	P	P
45	TCA16091 01	SARTHA K JAIN	P		P	P		P	P		P	P		P	P	P	P	P
46	TCA16091 02	SAUMYA JAIN	P	P		P	P	P	P	P	P		P	P	P	P	P	P
47	TCA16091 11	SHUBHA M KUMAR JAIN	P	P	P		P	P	P	P		P	P	P	P	P	P	P
48	TCA16091 13	SIDDHAR TH JAIN	P	P	P	P		P	P	P	P			P		P	P	
49	TCA16091 15	SINJANEE JAIN	P	P	P	P	P	P	P	P	P	P	P	P			P	P

50	TCA16091 17	SMRATI JAIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
51	TCA16091 18	SOMYA JAIN	P	P		P	P			P		P		P		P	P		
52	TCA16091 19	SONALI JAIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
53	TCA16091 21	SUBHAM JAIN		P	P	P	P	P		P	P	P	P	P	P	P	P	P	P
54	TCA16091 25	UPVAN JAIN	P	P		P	P	P	P	P	P		P		P	P	P	P	P
55	TCA16091 26	URVASHI TYAGI	P	P	P		P	P	P	P	P	P	P	P	P		P	P	
56	TCA16091 27	VAIBHAV JAIN	P	P	P	P	P	P	P		P			P	P	P		P	
57	TCA16091 29	VIKASH JAIN	P	P	P	P		P	P		P	P	P						P
58	TCA16091 33	YASHI SHARMA		P		P	P	P	P	P	P	P	P	P	P	P	P	P	P
59	TCA16091 35	ABHISHE K JAIN	P	P	P	P	P	P	P		P	P		P	P	P	P	P	P
60	TCA16091 36	VIBHOR JAIN	P	P		P	P	P	P	P	P		P		P	P	P	P	P
61	TCA17110 01	SANSKRI TI JAIN	P	P	P		P	P	P	P	P	P	P	P	P		P	P	
62	TCA1711 002	VIJAY KUMAR TOMAR	P	P	P	P	P	P	P		P			P	P	P			P
63	TCA17110 03	VAIBHAV JAIN	P	P	P	P		P	P		P	P	P						P
64	TCA17110 05	MOHFEE Z AHMAD		P		P	P	P	P	P	P	P	P	P	P	P	P	P	P
65	TCA17110 06	SHRUTIK A KHANAK	P	P	P	P	P	P	P		P	P		P	P	P	P	P	P
66	TCA17110 10	VAISHAL I	P		P	P		P	P		P	P		P	P	P	P	P	P

12.E-contents (web links)

E-contents links including:

- <https://www.tmu.ac.in/ccsit>
- <https://sites.google.com/site/namitguptatmu/>
- <https://www.youtube.com/watch?v=bXLTxa7wBO0>
- <https://www.youtube.com/watch?v=hCmf20BUWUg>

A handwritten signature or mark in blue ink, consisting of a stylized 'P' or 'R' shape with a long horizontal line extending to the right.

Sl.N o.	Enrollment No.	Name	ECS-704																							Total				
			Max. Marks																											
			10	10	10	10	40	6	8	6	8	12	60	12	12	12	12	12	12	18	20	18	20	24						
			CT1	CT2	CT3	Asn	1	CO1	CO2	CO3	CO4	CO5	E	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5							
1	TCA1609001	AARADHYA JAIN	7.3	7.0	6.0	10.0	34	4.9	6.4	4.8	6.2	8.0	33	6.6	6.6	6.6	6.6	6.6	12	13	11	13	15							
2	TCA1609002	AARUSHI JAIN	6.3	8.7	A	9.0	34	4.3	5.6	5.3	7.0	1.8	34	6.8	6.8	6.8	6.8	6.8	11	12	12	14	9							
3	TCA1609003	AMRITA KUMARI	4.7	A	4.3	9.0	28	3.7	4.6	1.8	1.8	6.1	36	7.2	7.2	7.2	7.2	7.2	11	12	9	9	13							
4	TCA1609004	AAYUSH JAIN	7.3	8.3	9.7	9.0	37	4.7	6.2	5.1	6.8	11.5	48	9.6	9.6	9.6	9.6	9.6	14	16	15	16	21							
5	TCA1609005	AAYUSHI JAIN	5.3	6.3	7.7	9.0	33	3.9	5.0	4.3	5.6	9.5	34	6.8	6.8	6.8	6.8	6.8	11	12	11	12	16							
6	TCA1609006	AAYUSHI JAIN	6.3	8.0	A	9.0	33	4.3	5.6	5.0	6.6	1.8	36	7.2	7.2	7.2	7.2	7.2	12	13	12	14	9							
7	TCA1609007	ABDUL KAFEEL	3.7	5.7	5.0	9.0	30	3.3	4.0	4.1	5.2	6.8	17	3.4	3.4	3.4	3.4	3.4	7	7	7	9	10							
8	TCA1609008	ABDUL KAREEM	7.0	9.0	10.0	10.0	39	4.8	6.2	5.6	7.4	12.0	42	8.4	8.4	8.4	8.4	8.4	13	15	14	16	20							
9	TCA1609009	ABHISHEK JAIN	5.0	7.3	6.0	9.0	32	3.8	4.8	4.7	6.2	7.8	20	4	4	4	4	4	8	9	9	10	12							
10	TCA1609010	ABHISHEK JAIN	9.3	A	9.7	9.0	38	5.5	7.4	1.8	1.8	11.5	37	7.4	7.4	7.4	7.4	7.4	13	15	9	9	19							
11	TCA1609013	ADHYATMA JAIN	8.3	6.0	A	10.0	34	5.3	7.0	4.4	5.6	2.0	36	7.2	7.2	7.2	7.2	7.2	13	14	12	13	9							
12	TCA1609016	AKSHAT JAIN	5.7	A	9.0	10.0	35	4.3	5.4	2.0	2.0	11.0	42	8.4	8.4	8.4	8.4	8.4	13	14	10	10	19							
13	TCA1609017	AKSHITA JAIN	7.0	A	9.0	9.0	35	4.6	6.0	1.8	1.8	10.8	46	9.2	9.2	9.2	9.2	9.2	14	15	11	11	20							
14	TCA1609018	AMAN JAIN	6.0	10.0	7.0	9.0	36	4.2	5.4	5.8	7.8	8.8	32	6.4	6.4	6.4	6.4	6.4	11	12	12	14	15							
15	TCA1609021	AMOL JAIN	6.3	A	9.3	10.0	36	4.5	5.8	2.0	2.0	11.3	32	6.4	6.4	6.4	6.4	6.4	11	12	8	8	18							
16	TCA1609026	ANVITA JAIN	6.0	A	7.3	9.0	32	4.2	5.4	1.8	1.8	9.1	40	8	8	8	8	8	12	13	10	10	17							
17	TCA1609029	AYUSH JAIN	8.3	7.3	6.0	10.0	36	5.3	7.0	4.9	6.4	8.0	33	6.6	6.6	6.6	6.6	6.6	12	14	12	13	15							
18	TCA1609030	AYUSH JAIN	8.7	A	9.0	10.0	38	5.5	7.2	2.0	2.0	11.0	37	7.4	7.4	7.4	7.4	7.4	13	15	9	9	18							
19	TCA1609034	AYUSHI JAIN	8.3	A	9.3	9.0	35	5.1	6.8	1.8	1.8	11.1	40	8	8	8	8	8	13	15	10	10	19							
20	TCA1609036	DHEERAJ JAIN	7.3	A	9.7	10.0	37	4.9	6.4	2.0	2.0	11.7	34	6.8	6.8	6.8	6.8	6.8	12	13	9	9	19							
21	TCA1609043	GOUTAM VOHRA	8.7	A	6.3	8.0	33	5.1	6.8	1.6	1.6	7.9	37	7.4	7.4	7.4	7.4	7.4	12	14	9	9	15							
22	TCA1609045	HARSH JAIN	7.3	A	8.0	9.0	34	4.7	6.2	1.8	1.8	9.8	27	5.4	5.4	5.4	5.4	5.4	10	12	7	7	15							
23	TCA1609047	HIMANI JAIN	9.0	A	9.7	10.0	39	5.6	7.4	2.0	2.0	11.7	42	8.4	8.4	8.4	8.4	8.4	14	16	10	10	20							
24	TCA1609049	JATIN JAIN	8.3	8.0	9.0	9.0	36	5.1	6.8	5.0	6.6	10.8	36	7.2	7.2	7.2	7.2	7.2	12	14	12	14	18							
25	TCA1609051	MAHAK ARA	7.0	7.7	A	8.0	33	4.4	5.8	4.7	6.2	1.6	41	8.2	8.2	8.2	8.2	8.2	13	14	13	14	10							
26	TCA1609058	MD SHAMSHAD	7.7	10.0	A	9.0	37	4.9	6.4	5.8	7.8	1.8	38	7.6	7.6	7.6	7.6	7.6	12	14	13	15	9							
27	TCA1609060	MITANSHU MEHTA	5.7	A	8.3	10.0	34	4.3	5.4	2.0	2.0	10.3	34	6.8	6.8	6.8	6.8	6.8	11	12	9	9	17							
28	TCA1609062	MOHD AAMIR	6.7	8.7	9.3	10.0	38	4.7	6.0	5.5	7.2	11.3	32	6.4	6.4	6.4	6.4	6.4	11	12	12	14	18							
29	TCA1609065	MOHIT JAIN	7.7	9.7	8.0	9.0	37	4.9	6.4	5.7	7.6	9.8	48	9.6	9.6	9.6	9.6	9.6	14	16	15	17	19							
30	TCA1609067	NAMAN JAIN	6.0	7.0	8.7	8.0	34	4.0	5.2	4.4	5.8	10.3	31	6.2	6.2	6.2	6.2	6.2	10	11	11	12	17							
31	TCA1609069	NAMITA PRADHAN	7.7	A	8.0	9.0	35	4.9	6.4	1.8	1.8	9.8	40	8	8	8	8	8	13	14	10	10	18							
32	TCA1609075	PRAGATI JAIN	6.7	A	8.0	10.0	35	4.7	6.0	2.0	2.0	10.0	40	8	8	8	8	8	13	14	10	10	18							

Director
Faculty of Engineering
Teerthanker Mahaveer University
Moradabad

Sl.N o.	Enrollment No.	Name	ECS-704																					
			Max. Marks																	Total				
			10	10	10	10	40	6	8	6	8	12	60	12	12	12	12	12	18	20	18	20	24	
			CT1	CT2	CT3	Asn	I	CO1	CO2	CO3	CO4	CO5	E	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
33	TCA1609076	PRAGATI JAIN	7.0	5.3	5.0	10.0	32	4.8	6.2	4.1	5.2	7.0	34	6.8	6.8	6.8	6.8	6.8	12	13	11	12	14	
34	TCA1609079	PRANJAL JAIN	7.3	8.3	9.3	10.0	36	4.9	6.4	5.3	7.0	11.3	44	8.8	8.8	8.8	8.8	8.8	14	15	14	16	20	
35	TCA1609081	PRIYANSHI JAIN	5.7	7.7	A	10.0	33	4.3	5.4	5.1	6.6	2.0	44	8.8	8.8	8.8	8.8	8.8	13	14	14	15	11	
36	TCA1609082	PRIYANSHU JAIN	9.7	9.0	A	8.0	37	5.5	7.4	5.2	7.0	1.6	36	7.2	7.2	7.2	7.2	7.2	13	15	12	14	9	
37	TCA1609088	RITIK JAIN	8.7	8.3	A	9.0	34	5.3	7.0	5.1	6.8	1.8	32	6.4	6.4	6.4	6.4	6.4	12	13	12	13	8	
38	TCA1609089	RITIKA JAIN	5.7	8.0	7.7	10.0	36	4.3	5.4	5.2	6.8	9.7	37	7.4	7.4	7.4	7.4	7.4	12	13	13	14	17	
39	TCA1609090	RIYA JAIN	8.0	A	6.7	10.0	35	5.2	6.8	2.0	2.0	8.7	39	7.8	7.8	7.8	7.8	7.8	13	15	10	10	17	
40	TCA1609092	SAHIL JAIN	7.3	9.3	A	9.0	36	4.7	6.2	5.5	7.4	1.8	41	8.2	8.2	8.2	8.2	8.2	13	14	14	16	10	
41	TCA1609095	SAJAL GUPTA	5.3	9.3	A	8.0	31	3.7	4.8	5.3	7.2	1.6	39	7.8	7.8	7.8	7.8	7.8	12	13	13	15	9	
42	TCA1609096	SAMBHAV JAIN	7.7	9.0	8.0	10.0	37	5.1	6.6	5.6	7.4	10.0	40	8	8	8	8	8	13	15	14	15	18	
43	TCA1609097	SAMBHAV KUMAR JAIN	6.7	A	7.3	10.0	34	4.7	6.0	2.0	2.0	9.3	41	8.2	8.2	8.2	8.2	8.2	13	14	10	10	18	
44	TCA1609100	SANKALP JAIN	6.0	8.3	7.0	9.0	32	4.2	5.4	5.1	6.8	8.8	30	6	6	6	6	6	10	11	11	13	15	
45	TCA1609101	SARTHAK JAIN	6.0	8.7	8.0	9.0	36	4.2	5.4	5.3	7.0	9.8	34	6.8	6.8	6.8	6.8	6.8	11	12	12	14	17	
46	TCA1609102	SAUMYA JAIN	6.3	9.7	A	10.0	36	4.5	5.8	5.9	7.8	2.0	37	7.4	7.4	7.4	7.4	7.4	12	13	13	15	9	
47	TCA1609111	SHUBHAM KUMAR JAIN	9.7	9.7	A	10.0	39	5.9	7.8	5.9	7.8	2.0	39	7.8	7.8	7.8	7.8	7.8	14	16	14	16	10	
48	TCA1609113	SIDDHARTH JAIN	6.3	9.3	7.7	9.0	36	4.3	5.6	5.5	7.4	9.5	35	7	7	7	7	7	11	13	13	14	17	
49	TCA1609115	SINJANEE JAIN	1.3	5.0	1.7	9.0	26	2.3	2.6	3.8	4.8	3.5	36	7.2	7.2	7.2	7.2	7.2	10	10	11	12	11	
50	TCA1609117	SMRATI JAIN	7.3	7.3	A	9.0	34	4.7	6.2	4.7	6.2	1.8	41	8.2	8.2	8.2	8.2	8.2	13	14	13	14	10	
51	TCA1609118	SOMYA JAIN	5.7	7.3	A	10.0	33	4.3	5.4	4.9	6.4	2.0	37	7.4	7.4	7.4	7.4	7.4	12	13	12	14	9	
52	TCA1609119	SONALI JAIN	7.7	8.3	7.7	10.0	36	5.1	6.6	5.3	7.0	9.7	39	7.8	7.8	7.8	7.8	7.8	13	14	13	15	18	
53	TCA1609121	SUBHAM JAIN	8.3	A	8.3	10.0	37	5.3	7.0	2.0	2.0	10.3	33	6.6	6.6	6.6	6.6	6.6	12	14	9	9	17	
54	TCA1609125	UPVAN JAIN	8.0	A	5.7	10.0	34	5.2	6.8	2.0	2.0	7.7	24	4.8	4.8	4.8	4.8	4.8	10	12	7	7	13	
55	TCA1609126	URVASHI TYAGI	7.0	A	4.3	10.0	31	4.8	6.2	2.0	2.0	6.3	38	7.6	7.6	7.6	7.6	7.6	12	14	10	10	14	
56	TCA1609127	VAIBHAV JAIN	4.0	A	3.3	10.0	27	3.6	4.4	2.0	2.0	5.3	26	5.2	5.2	5.2	5.2	5.2	9	10	7	7	11	
57	TCA1609129	VIKASH JAIN	6.0	8.3	9.7	9.0	37	4.2	5.4	5.1	6.8	11.5	41	8.2	8.2	8.2	8.2	8.2	12	14	13	15	20	
58	TCA1609133	YASHI SHARMA	5.0	A	6.7	10.0	32	4.0	5.0	2.0	2.0	8.7	39	7.8	7.8	7.8	7.8	7.8	12	13	10	10	17	
59	TCA1609135	ABHISHEK JAIN	7.3	6.3	A	9.0	33	4.7	6.2	4.3	5.6	1.8	42	8.4	8.4	8.4	8.4	8.4	13	15	13	14	10	
60	TCA1609136	VIBHOR JAIN	8.3	7.7	A	9.0	35	5.1	6.8	4.9	6.4	1.8	39	7.8	7.8	7.8	7.8	7.8	13	15	13	14	10	
61	TCA1711001	SANSKRITI JAIN	7.0	6.3	A	10.0	31	4.8	6.2	4.5	5.8	2.0	35	7	7	7	7	7	12	13	12	13	9	
62	TCA1711002	VIJAY KUMAR TOMAR	6.0	6.0	5	9.0	31	4.2	5.4	4.2	5.4	6.8	37	7.4	7.4	7.4	7.4	7.4	12	13	12	13	14	

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Sl.N o.	Enrollment No.	Name	ECS-704																				
			Max. Marks															Total					
			10	10	10	10	40	6	8	6	8	12	60	12	12	12	12	12	18	20	18	20	24
			CT1	CT2	CT3	Assn	I	CO1	CO2	CO3	CO4	CO5	E	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
63	TCA1711003	VAIBHAV JAIN	2.7	5.7	1.7	10.0	28	3.1	3.6	4.3	5.4	3.7	39	7.8	7.8	7.8	7.8	7.8	11	11	12	13	12
64	TCA1711005	MOHFEEZ AHMAD	5.7	A	3.3	9.0	28	4.1	5.2	1.8	1.8	5.1	26	5.2	5.2	5.2	5.2	5.2	9	10	7	7	10
65	TCA1711006	SHRUTIKA KHANAK	5.0	9.0	A	10.0	34	4.0	5.0	5.6	7.4	2.0	33	6.6	6.6	6.6	6.6	6.6	11	12	12	14	9
66	TCA1711010	VAISHALI	9.0	9.7	A	10.0	37	5.6	7.4	5.9	7.8	2.0	42	8.4	8.4	8.4	8.4	8.4	14	16	14	16	10
																			18	20	18	20	24
																			CO1	CO2	CO3	CO4	CO5
																			9	10	9	10	12
																			63	62	54	46	41
																			Target >50				
																			No of Students have >Target				

Target >50
No of Students have >Target

Benchmark and Attainment	
60% of Students get more than target	1
70% of Students get more than target	2
80% of Students get more than target	3

Students Above Threshold

	Cos	Students	%	Att.
	CO1	63	95.5	3
	CO2	62	93.9	3
	CO3	54	81.8	3
	CO4	46	69.7	1
	CO5	41	62.1	1

2.2

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CO		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02	PS03
ECS704CO1	Understanding the processes that exist primarily for supporting the management of software development, and are generally skewed toward addressing business concerns	1	1	1							1	1	2	2	3	2
ECS704CO2	Understanding the concepts to address specific management needs at the individual, team, division and/or organizational level	2	1	2	1						1		2	3	2	3
ECS801CO3	Applying a strong working knowledge of ethics and professional responsibility. Understanding effective organizational leadership and change skills for managing projects, project teams, and stakeholders.	1	1	1	2						1	1	1	1	1	1
ECS801CO4	Analyzing project planning activities that accurately forecast project costs, timelines, and quality. Implement processes for successful resource, communication, and risk and change management	2	1	2	1						2			2	2	3
ECS801CO5	Developing Practical applications of project management to formulate strategies allowing organizations to achieve strategic goals	1	1	2	2						1			1	1	2
Average		1.4	1	1.6	1.5						1.2	1	1.667	1.8	1.8	2.2
	Attainment	1.0	0.7	1.2	1.1						0.9	0.7	1.2	1.3	1.3	1.6


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