2.6.2 Attainment of Programme outcomes and course outcomes are evaluated by the institution.

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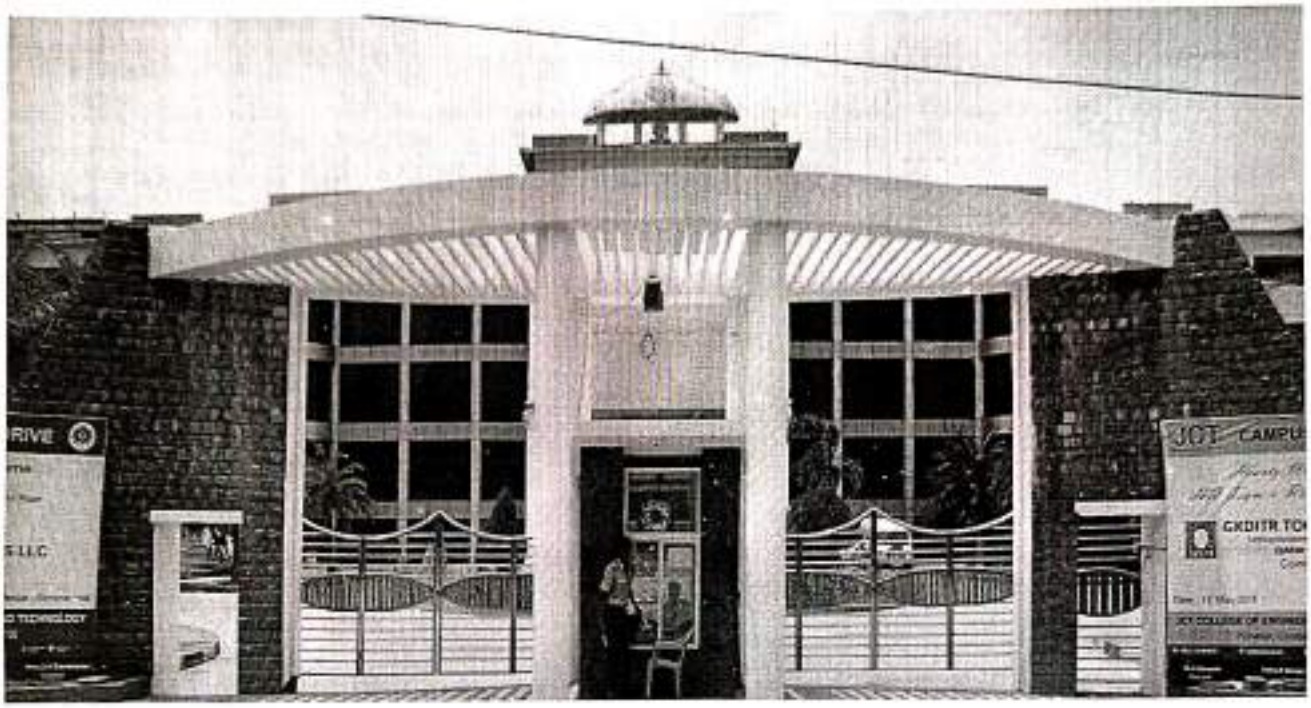
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CRITERIA – 2: COURSE OUTCOMES AND PROGRAM OUTCOMES

ASSESSMENT MANUAL

ACADEMIC YEAR
2020-2021

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1. INSTITUTE VISION AND MISSION STATEMENTS:

VISION

To emerge as a Premier Institute for developing industry ready Engineers with competency, initiative and character to meet the challenges in global environment.

MISSION

- To impart state-of-the-art engineering and professional education through strong theoretical basics and hands on training to students in their choice of field.
- To serve our students by teaching them leadership, entrepreneurship, teamwork, values, quality, ethics and respect for others.
- To provide opportunities for long-term interaction with academia and industry.
- To create new knowledge through innovation and research.

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DEPARTMENT VISION AND MISSION STATEMENTS:

VISION

- To produce the leaders in the field of Computer Science and Engineering, evolving as a Centre of Excellence for Learning and Research.

MISSION

- To develop globally competent engineers capable of providing secure and Out-of-the Box computing and cutting-edge technology solutions.
- To provide state-of-art laboratories and quality learning environment.
- To educate students with ethical values and to serve society with innovative, intelligent products and services.

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2. PROGRAMME EDUCATIONAL OBJECTIVES, ROGRAMME OUTCOMES, COURSE OUTCOMES AS PER JCTCET

Programme Educational Objectives:

Programme educational objectives are broad statements that describe the career and Professional accomplishments that the program is preparing, graduates to achieve.

Programme Outcomes:

Programme outcomes are narrower statements that describe what students are expected to know and be able to do by the time of graduation. These relate to the skills, knowledge and behaviors that students acquire in their matriculation through the programme.

Course Outcomes:

Course Outcomes are comprehensive sets of statements of exactly what the students will be able to do / achieve after the successful earning. Outcomes are usually expressed as knowledge, skills or attitudes.

4. STATEMENTS OF PEOs, POs AND PSOs

(i) PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

The graduates of Computer Science and Engineering shall:

PEO1: Graduates shall exhibit their sound theoretical, practical skills and knowledge for successful employments or higher studies or research or entrepreneurial assignments.

PEO2: Graduates shall have lifelong learning skills, professional ethics and good communication capabilities along with leadership skills, so that they can succeed in their life. **PEO3:** Graduates shall become leaders, innovators and entrepreneurs by devising software solutions for social issues and problems, thus caring for the society.

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(ii) PROGRAMME OUTCOMES (POs)

Engineering Graduates will be able to:

PO1	**Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	**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.
PO3	**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.
PO4	**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.
PO5	**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.
PO6	**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.
PO7	**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.
PO8	**Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	**Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	**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.

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PO11	**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.
PO12	**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.

(iii) Program specific outcomes (PSO)

The Graduates will be able to

PSO1	Have capabilities to successfully qualify in national level competitive Examinations for higher studies and employment.
PSO2	Have abilities to apply their knowledge in the domain of Design and Analysis of Algorithms, Computer Networks, Artificial Intelligence, Information Security, Data Science, Data Structure, Grid and Cloud Computing, Software Engineering, Machine Learning, Operating Systems.

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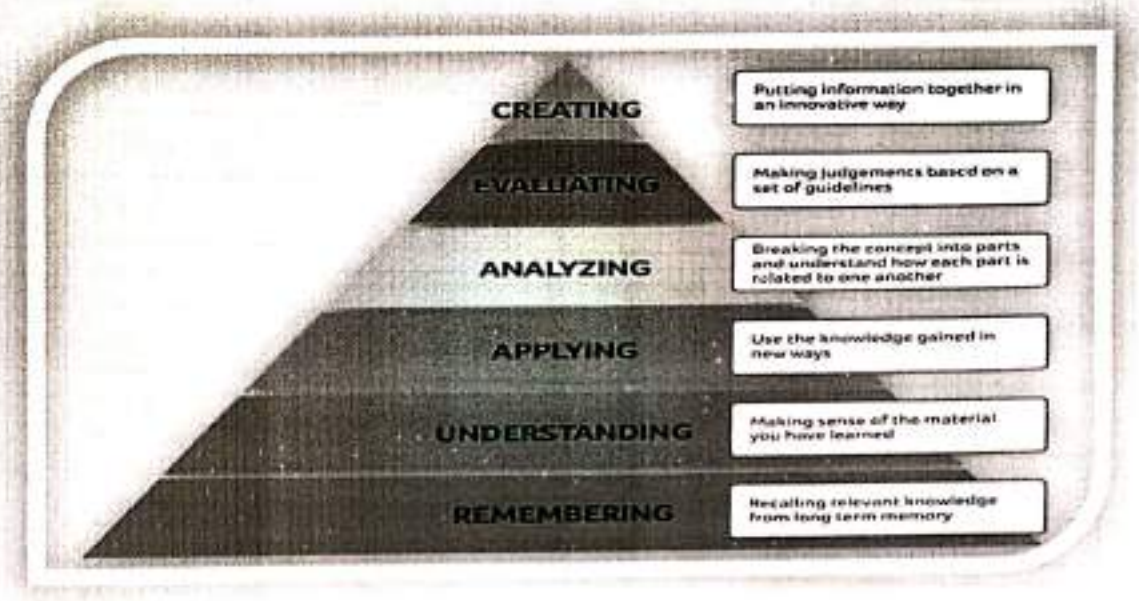
5. BLOOM TAXONOMY

Bloom Taxonomy is frequently used for writing the Learning / Course Outcomes.

Bloom proposed that teachers should design lessons, tasks, modules, courses and programmes to help students to achieve the stated Course Outcomes.

Bloom's cognitive domain is composed of successive levels arranged in a hierarchy:



Since learning outcomes are concerned with what the students can do at the end of the learning activity use 'active' verbs, for writing the 'Outcomes'. Active verbs and their usage in course outcomes are listed in the table below.

	Remembering AI search methodologies which can be applied for complex real time problems.
Level - 2	**Understanding** the basic plan generation systems and Applying basic AI Algorithms in machine learning.
Level - 3	**Identify** problems that are amenable to solution by AI methods.
Level – 4	**Analyzing** the basic architecture of an expert system the students can develop simple expert systems for real world problem.
Level – 5	Evaluating knowledge inference techniques and applying best for the solving real world problems.
Level – 6	**Design** and carry out an empirical evaluation of different algorithms on problem formalization, and state the conclusions that the evaluation supports.

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6. COURSE OUTCOME STATEMENTS

Academic Year (2021-22)

COURSE CODE	COURSE NAME
C101	Communicative English
C102	Engineering Mathematics - I
C103	Engineering Physics
C104	Engineering Chemistry
C105	Problem solving and python programming
C106	Engineering Graphics
C107	Problem solving and python programming Laboratory
C108	Physics & Chemistry Laboratory
C109	Technical English
C110	Engineering Mathematics - II
C111	Physics for Electronics Engineering
C112	Basic civil and mechanical engineering
C113	Circuit Theory
C114	Environmental science and engineering
C115	Engineering Practices Lab
C116	Electric Circuits Lab
C201	Transforms and Partial Differential Equations
C202	Digital Logic Circuits
C203	Electromagnetic Theory
C204	Electrical Machines-I
C205	Electron Devices and Circuits
C206	Power Plant Engineering
C207	Electronics Laboratory

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C208	Electrical Machines Laboratory - I
C209	Numerical Methods
C210	Electrical Machines - II
C211	Transmission and Distribution
C212	Measurements and Instrumentation
C213	Linear Integrated Circuits and applications
C214	Control Systems
C215	Electrical Machines Laboratory - II
C216	Linear and Digital Integrated circuits Laboratory
C217	Technical Seminar
C301	Power System Analysis
C302	Microprocessors and Microcontrollers
C303	Power Plant Engineering
C304	Digital Signal Processing
C305	Object Oriented Programming
C306	Basics of Biomedical Instrumentation
C307	Control and Instrumentation Laboratory
C308	Professional Communication
C309	Object Oriented Programming Laboratory
C310	Solid State Drives
C311	Protection and Switchgear
C312	Embedded Systems
C313	Special Electrical Machines
C314	Intellectual Property Rights
C315	Power Electronics and Drives Laboratory

Dr. K.GEETHA, M.E., Ph.D.,
Dean - Academics & Research
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C316	Microprocessors and Microcontrollers Laboratory
C317	Mini Project
C401	High Voltage Engineering
C402	Power System Operation and Control
C403	Renewable Energy Systems
C404	Introduction to C Programming
C405	Fibre Optics and Laser Instrumentation
C406	Power System Transients
C407	Power System Simulation Laboratory
C408	Renewable Energy Systems Laboratory
C409	Electric Energy Generation, Utilization and Conservation
C410	Microcontroller Based System Design
C411	Project Work

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PO MATRIX

ACADEMIC YEAR :2021-2022

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	1.00	0.60	-	-	-	-	-	-	1.00	2.80	-	1.20
C102	2.57	2.76	-	-	-	-	-	-	-	-	-	2.37
C103	1.87	1.12	0.37	-	-	-	-	-	-	-	-	0.19
C104	1.36	0.97	0.78	0.39	1.75	-	-	-	-	-	-	2.19
C105	2.80	1.87	1.68	1.87	-	-	-	-	-	1.87	-	1.87
C106	2.96	1.97	1.58	0.59	-	-	-	-	1.78	1.97	-	2.17
C107	3.00	2.00	1.80	2.00	-	-	-	-	-	2.00	-	2.00
C108	1.97	1.18	0.79	-	-	-	-	1.97	0.20	-	-	-
C109	1.00	-	-	-	-	1.00	-	2.00	1.00	2.60	-	2.00
C110	2.37	2.57	-	-	-	-	-	-	-	-	-	1.97
C111	2.43	1.87	-	-	-	-	-	-	-	0.93	-	0.93
C112	2.72	1.81	0.91	1.81	-	1.81	-	-	-	-	-	1.81
C113	1.36	1.75	-	1.56	-	0.97	2.92	-	1.95	1.95	-	1.95
C114	2.96	1.97	1.58	0.99	-	-	-	-	1.97	1.97	-	2.17
C115	3.00	1.60	2.60	-	2.00	2.00	-	-	2.00	-	1.00	2.00
C116	2.53	2.43	2.43	1.95	1.95	1.95	-	-	1.65	1.95	1.95	2.43
C201	1.21	0.93	-	-	-	-	-	-	-	-	-	-
C202	1.32	0.88	0.66	-	0.88	0.88	0.88	-	0.88	-	-	0.88
C203	1.18	0.91	0.79	0.73	-	-	-	-	0.91	0.91	-	1.09
C204	1.21	1.03	1.12	0.75	0.56	0.47	0.65	-	0.93	0.47	-	0.75
C205	1.36	1.36	0.91	1.36	0.91	0.91	0.91	0.45	0.91	0.91	0.91	1.36
C206	2.88	1.54	2.50	-	1.92	1.92	-	0.96	1.92	0.96	0.96	1.92
C207	3.00	2.00	2.40	2.00	1.80	-	-	2.00	2.00	1.00	1.00	2.80
C208	2.57	2.47	2.47	1.97	1.97	1.97	-	-	1.68	1.97	1.97	2.47
C209	3.00	-	-	-	-	1.00	1.00	1.00	2.00	2.00	1.00	2.00
C210	3.00	2.60	-	-	-	-	-	-	1.00	-	1.00	-
C211	2.92	2.53	2.19	2.19	-	0.97	0.97	-	1.95	0.97	-	1.95
C212	2.65	1.89	2.08	0.38	0.95	0.95	0.76	-	-	1.70	1.14	1.89
C213	3.00	2.00	2.00	2.40	-	2.40	-	-	0.60	2.00	-	1.00
C214	2.92	1.95	1.07	-	0.78	0.78	-	-	1.95	-	-	1.95
C215	1.34	1.73	-	1.54	-	0.96	2.88	-	1.92	1.92	-	1.92
C216	2.60	2.20	3.00	2.00	-	-	-	-	-	2.00	-	2.00

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C217	2.60	2.20	3.00	2.00	-	1.00	-	-	-	2.00	-	2.00
C218	-	-	-	-	1.00	-	-	-	-	3.00	-	2.00
C301	2.96	2.57	0.99	0.99	-	-	1.97	-	1.78	1.97	-	2.57
C302	2.84	1.89	2.84	0.95					0.95	0.95		0.95
C303	1.88	0.94	-	0.94	1.88	0.94	-	0.94	0.94	0.94	-	0.94
C304	1.95	2.92	0.97	1.95	-	-	-	-	0.97	0.97	-	0.97
C305	2.78	-	-	-					1.85	1.85	0.93	0.93
C306	2.96	1.97	-	1.97	-	-	-	1.97	1.97	1.97	-	1.97
C307	2.60	2.20	3.00	2.00	-	-	-	-	-	2.00	-	2.00
C308	3.00	1.00	-	1.00	-	2.00	-	1.00	2.00	2.00	-	1.00
C309	2.84	2.84	1.89	1.89					1.89	1.89		1.89
C310	2.60	2.00	2.20	-	2.60	0.40	-	-	1.10	2.00	-	2.00
C311	2.59	1.85	2.41	1.11	-	-	-	-	2.04	1.85	-	2.41
C312	2.82	2.82	1.88	1.88	2.82	1.88	-	-	1.88	1.88	1.88	1.88
C313	2.88	1.92	1.92	-					-	1.92	-	1.54
C314	3.00	-	3.00	2.00	-	-	2.00	-	1.00	2.00	-	1.00
C315	3.00	2.00	2.40	2.00	1.80	-	-	2.00	2.00	1.00	1.00	2.80
C316	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	-
C317	1.00	-	-	-	1.00	2.00	-	-	-	3.00	-	1.00
C401	2.69	2.11	1.92	2.40	-	-	2.40	-	-	1.92	1.92	2.30
C402	2.69	1.92	2.11	2.50	1.54	1.54	1.73	0.58	0.77	0.38	1.54	2.30
C403	3.00	2.00	1.00	3.00	3.00	2.00	2.00	-	1.80	-	1.00	2.00
C404	-	-	0.87	0.87	-	1.73	-	1.73	1.73	0.87	-	0.87
C405	1.97	1.97	1.97	-	-	1.97	-	-	-	1.97	1.28	1.97
C406	2.96	2.17	2.17	2.57	2.57	1.97	1.97	-	1.97	2.47	1.97	1.97
C407	3.00	2.00	3.00	2.30	2.20	-	-	-	2.00	2.00	2.00	2.80
C408	3.00	1.60	3.00	3.00	3.00	1.00	-	1.00	1.00	2.00	2.60	2.00
C409	3.00	2.00	-	-	-	-	-	1.00	1.00	1.00	-	1.00
C410	2.96	2.96	-	-	2.96	1.97	1.97	1.97	1.97	-	-	-
C411	1.02	0.64	0.77	0.85	0.85	0.43	-	-	0.64	-	0.75	0.68
C412	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	-
DIRECT	2.44	1.91	1.89	1.72	1.62	1.33	1.48	1.26	1.54	1.77	1.41	1.74
INDIRECT	3.00	2.95	2.98	2.95	2.63	2.28	2.35	2.50	2.43	2.40	2.30	2.63
DIRECT 80%	1.95	1.53	1.51	1.38	1.30	1.06	1.18	1.01	1.23	1.41	1.12	1.39
INDIRECT 20%	0.60	0.59	0.60	0.59	0.53	0.46	0.47	0.50	0.49	0.48	0.46	0.53
PO ATTAINMENT	2.55	2.12	2.11	1.97	1.82	1.52	1.65	1.51	1.72	1.89	1.58	1.92

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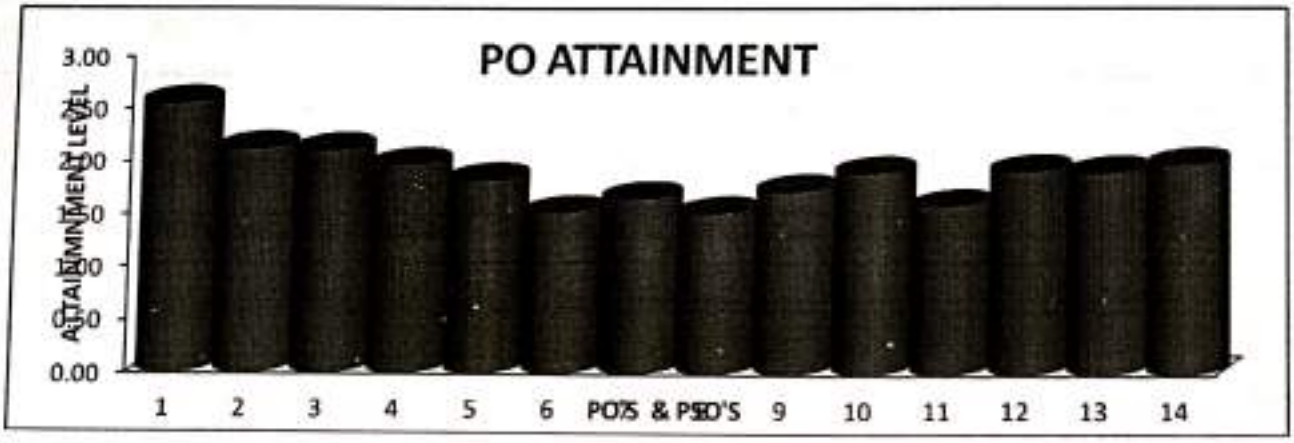

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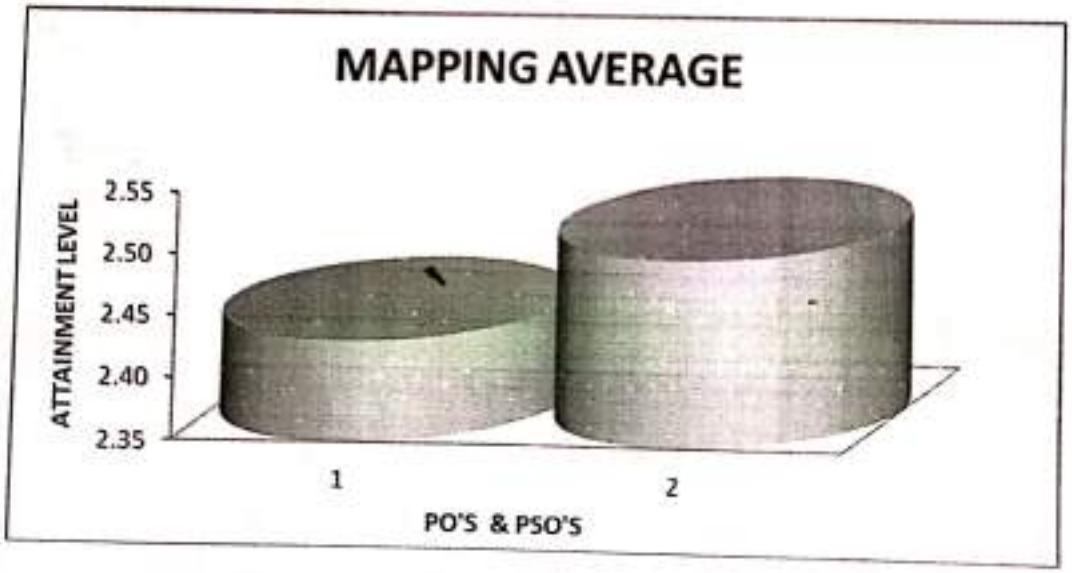
ACADEMIC YEAR :2021—2022



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Academic year : 2020-21
Year of Study : 2020-21
Course Code : C403
Course Title : Cloud Computing

On completion of this course the Students will be able to

C403.1	Understanding	Articulate the main concepts, key technologies, strengths and limitations of cloud computing.
C403.2	**Analyzing**	Learn the key and enabling technologies that help in the development of cloud.
C403.3	Apply	Develop the ability to understand and use the architecture of compute and storage cloud, service and delivery models.
C403.4	**Analyzing**	Explain the core issues of cloud computing such as resource management and security.
C403.5	Apply	Be able to install and use current cloud technologies and choose the appropriate technologies, algorithms and approaches for implementation and use of cloud.

7. COURSE OUTCOME/ PROGRAMME OUTCOMES MAPPING FOR ALL THE COURSES

Year of Study : 2020-2021
Course Code : C403
Course Title : **Cloud Computing**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	2	2	1	1	0	2	0	0	1	1	0	1
C403.2	2	2	1	2	0	1	0	0	1	1	0	2
C403.3	2	2	2	2	2	1	0	0	3	1	0	2
C403.4	3	3	2	3	2	1	0	0	2	1	0	3
C403.5	3	3	3	3	2	2	1	1	2	1	2	3
C403	2.40	2.40	1.80	2.20	2.00	1.40	1.00	1.00	1.80	1.00	2.00	2.20

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8. COURSE OUTCOME / PROGRAMME SPECIFIC OUTCOMES MAPPING FOR ALL THE COURSES

Year of Study : 2020-21

Course Code : C403

Course Title : Cloud Computing

	PSO1	PSO2
C403.1	1	3
C403.2	1	3
C403.3	1	2
C403.4	1	3
C403.5	1	2
Avg.	1.00	2.60

9. COURSES – PROGRAMME OUTCOMES / PROGRAMME SPECIFIC OUTCOMES MAPPING

CO Vs PO MAPPING MATRIX

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401	3.00	1.67	1.50	1.75	3.00	3.00	0.00	0.00	2.00	1.00	0.00	3.00
C402	2.60	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C403	2.40	2.40	1.80	2.20	2.00	1.40	1.00	1.00	1.80	1.00	2.00	2.20
C404	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	1.67	2.20

CO Vs PSO MAPPING MATRIX

COURSE CODE	PSO1	PSO2
C401	1	2
C402	3	2.6
C403	1	2
C404	1	2

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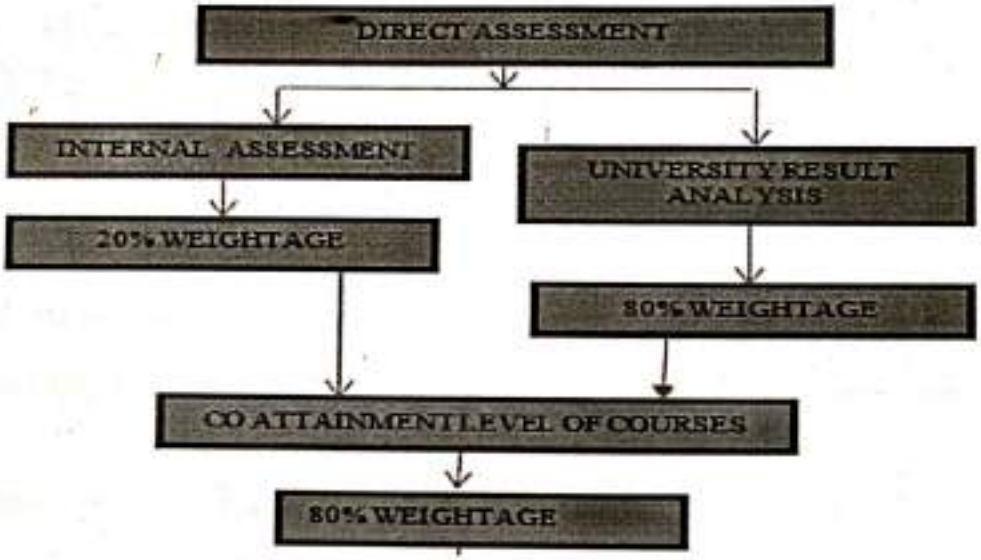
10. ASSESSMENT TOOLS AND PROCESS FOR CO ATTAINMENT



Course Outcome Assessment process:

The CO assessment for each course is done by individual faculty member and assessed by the Academic Coordinator at the end of the semester. The assessment process has two following methods.

- Direct Assessment Method
- Indirect Assessment Method

Direct Assessment Method:

In the Direct Assessment Method, the following factors are used.

For Theory Courses:

- Continuous Internal Assessment (CIA) Marks (CIA1, CIA2, CIA3).
- University Examination Marks

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For laboratory courses:

- Record Marks
- Observation Marks
- Model Examination Marks
- University Examination Marks

Evaluation Procedure

Theory Courses

Direct Assessment Method: Continuous Internal Assessment

- Class average for each test is calculated and target for attainment level is set based on the class average.
- The attainment level and target levels of each course are fixed as follows:

Attainment Level = 1, if upto 69% of students secured more than 50% Marks

Attainment Level = 2, if (70-79)% of students secured more than 50% Marks

Attainment Level = 3, if (80 and above)% of students secured more than 50% Marks

Direct Assessment Method: University Examination

The attainment level and target levels of each course are fixed as follows:

Attainment Level = 1, if upto 69% of students secured more than B grade

Attainment Level = 2, if (70-79)% of students secured more than B grade

Attainment Level = 3, if (80 and above)% of students secured more than B grade

Overall CO attainment

Attainment Level through Direct Assessment = (0.8 x Attainment level based on University Examination marks) + (0.2 x Attainment level based on Continuous Internal Assessment marks)

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Practical Courses

Direct Assessment Method: Observation, Record, Model Marks

The attainment level and target levels of each course are fixed as follows:

Attainment Level = 1, if upto 69% of students secured more than 50% Marks.

Attainment Level = 2, if (70-79)% of students secured more than 50% Marks.

Attainment Level = 3, if (80 and above)% of students secured more than 50% Marks.

Direct Assessment Method: University Examination

The attainment level and target levels of each course are fixed as follows:

Attainment Level = 1, if upto 60% of students secured more than B grade

Attainment Level = 2, if (70-79)% of students secured more than B grade

Attainment Level = 3, if (80 and above)% of students secured more than B grade

Overall CO attainment

Attainment Level through Direct Assessment = (0.8 x Attainment level based on University Examination marks) + (0.2 x Attainment level based on Continuous Internal Assessment marks)

Project Courses

Direct Assessment Method: Reviews, Demonstration

The attainment level and target levels of each course are fixed as follows:

Attainment Level = 1, if upto 69% of students secured more than 50% Marks

Attainment Level = 2, if (70-79)% of students secured more than 50% Marks

Attainment Level = 3, if (80 and above)% of students secured more than 50% Marks

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Direct Assessment Method: University Examination

The attainment level and target levels of each course are fixed as follows:

Attainment Level = 1, if upto 69% of students secured more than B grade

Attainment Level = 2, if (70-79)% of students secured more than B grade

Attainment Level = 3, if (80 and above)% of students secured more than B grade

Overall CO attainment

Attainment Level through Direct Assessment = (0.8 x Attainment level based on University Examination marks) + (0.2 x Attainment level based on Continuous Internal Assessment marks)

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NBA NAAC A

ENTERY OF MARKS (ODD SEM)
Year / Sem: IV/ VII

Course Code & Name: SNM

SNO	STUDENT NAME	TEST1 (MAX MARK 50)	TEST 2 (MAX MARK 50)	TEST 3 (MAX MARK 50)	UNIV
1	ABDUL BASIDE A	45	47	40	6
2	ABHINAND KRISHNA	41	45	30	6
3	ADIL HASHIM S	45	45	35	7
4	AKASH S	46	43	42	6
5	AKHIL BINOY	42	42	45	6
6	ALTHAF A	42	47	42	6
7	AMAL K S	47	41	42	6
8	AMAL V JAYAPRAKASH	27	39	42	6
9	AMARNATH A	28	43	47	6
10	ANILJITH V P	43	42	42	7
11	ARUN P K	40	42	46	8
12	DEEPAK KUMAR V	42	35	48	6
13	GOKUL M	35	40	48	6
14	HASHIM S K	30	41	45	6
15	IRSHAD I	35	35	45	7
16	JASWIN JAYAKUMAR	46	40	47	6
17	MOHAMMED SAHAL J	37	35	47	6
18	MUHAMMED SHAFAS K A	48	35	42	6
19	PACHAIYARASAN G	25	30	43	6
20	PINJOFFER F THEKKANATH	42	42	45	6
21	PRAVEENRAJ J	42	47	42	6
22	PREMJITH P	47	41	42	6
23	RAGHUL R	27	39	42	6
24	RAHUL P S	28	43	47	6
25	SANJAY V	43	42	42	6
26	SILAMBARASAN G	40	42	46	7
27	SIVALAL M	42	35	48	8

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28	SREERAG A	35	40	48	8
29	SRIDHAR K	30	41	45	6
30	SRIDHAR K	35	35	45	6
31	SRIRAM K	46	40	47	6
32	VASUDEVAN K	37	35	47	6
33	VIGNESH M	28	35	46	6
34	VIGNESH S	43	35	48	6
35	VIJAYAKUMAR T	30	48	45	6
36	VISAKH M S	30	36	18	6
37	VISHNNU M	48	45	46	6
38	VISHNU K P	42	43	46	6
39	VYSAG S	45	45	48	9
40	PUGAZHENTHI P	43	46	37	6
41	ANANDU K	42	48	20	7
42	ANSON A A	46	42	45	9
43	TOMCY ROY	46	45	46	7
No of stu65nt >=50%		43	43	41	43
CO1		3		3	3
CO2		3		3	3
CO3			3	3	3
CO4			3	3	3
CO5				3	3

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SAMPLE CO ATTAINMENT CALCULATION:

CO ATTAINMENT CALCULATION (WEIGHTAGE BASED)

C210	TEST1	TEST2	TEST3	INT	UNIV
CO1	3		3	3	3
CO2	3		3	3	3
CO3		3	3	3	3
CO4		3	3	3	3
CO5			3	3	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINTMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINTMNET FOR THE SUBJECT				3.00	

PROCEDURE FOR ATTAINMENT OF CO:

Step1: The student's individual course marks are been entered.

Step2: The CO attainment is calculated based on 20% weightage of internal marks and 80% Weightage of university marks.

Step3: CO attainment value is calculated.

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Improved with question wise analysis Process - II

		TEST1			TEST2				TEST3						
S.No	Name	CO1	CO2	Total Mark (50)	CO3	CO4	CO5	Total Mark (50)	CO1	CO2	CO3	CO4	CO5	Total Mark (100)	UNIV EXAM -10
1	AAKASH RAJ R	16	24	50	8	10	8.5	26.5	17	16	14	18	35	100	7
2	ABINAYA B	10	31.5	41.5	9	7	12	28	10	15	12	10	9	56	6
3	AFAF KUPPANATH	19	8	27	6	7	23	36	10	12	10	20	14	66	6
4	AKHIL S	18	11	29	7	8	14	29	9	10	12	16	6	53	7
5	AKSHAI KANNAN	19	9.5	28.5	8	8	17	33	9	10	18	16	3	56	6
6	ALAGULAKSHMI S	18	15	33	8	9	17	34	19	10	17	18	6	70	6
7	APARNA R	18	16	34	9	6	23.5	38.5	16	12	14	17	8	67	6
8	ARATHI U	18	14.5	32.5	8	7	33	48	19	11	12	10	10	62	7
9	DHARSITH N S	17	24	41	7	7	25	39	12	12	15	15	10	64	6
10	DIVYA M	19	9	28	8	10	11.5	29.5	16	18	16	17	10	77	7
11	FATHIMA DILSHA	12	29.5	41.5	7	8	18	28	18	18	17	16	6	70	6
12	FAYIZ FIROSH	20	15	35	9	9	14	32	18	18	17	19	10	82	8
13	GAYATHRI K	19	20	39	8	10	19	37	10	12	13	14	9	58	6
14	HARIHAR S	12	16	28	8	4	18	30	15	14	12	10	7	58	6
15	IRFANA K V	20	16.5	36.5	10	10	20	40	10	9	12	16	13	60	6
16	JINDO K JOY	17	10	27	9	5	22.5	36.5	14	15	13	12	13	67	7
17	JINU T BENU	10	19	29	6	8	15	29	18	17	18	17	12	82	6
18	JOSHITHA M	7	22.5	29.5	6	7	37	50	12	10	14	16	4	56	6
19	KAMALESH M	17	18	35	6	8	14	28	15	10	12	10	3	50	6
20	KENCY K	12	21.5	33.5	8	8	9	25	18	18	17	18	12	83	6
21	SHELDON JOSE	18	16	34	8	9	22.5	39.5	20	20	17	18	9	84	7
22	MUHAMMED JASIR C	16	12	28	8	8	14	30	20	20	19	19	22	100	8
23	MUHAMMED SHAHINSHA	20	21.5	41.5	10	10	20	40	20	20	18	19	20	97	8
24	MUHAMMED SHAMIL M L	9	23	32	6	7	30.5	43.5	12	14	16	15	10	67	6
25	MUHAMMED SHEMEEM P	10	29.5	39.5	6	8	21	35	12	12	12	10	10	56	6
26	MUHAMMED SHIBIN C H	20	13	33	10	10	20	40	8	12	9	10	15	54	6
27	NASEELA K T	19	22	41	9	10	10	29	9	12	15	10	10	56	6
28	NIRANJANI N T	20	8	28	9	9	14	32	18	14	12	10	12	66	8
29	NITHIN SURESH S	18	20	38	6	7	13.5	26.5	10	14	9	12	11	56	8
30	PRABHA SANKAR P T	12	17	29	8	8	12	28	18	18	12	10	12	70	6
31	ROHITH S (31-07-1998)	14	18	32	6	8	11	25	16	15	18	19	32	100	6
32	ROHITH S (05-05-1999)	11	22.5	33.5	6	8	23	37	15	12	10	14	8	59	8
33	SANDRA P	14	27	41	8	8	13	29	16	9	12	10	9	56	7
34	SANTHIYA M	10	35.5	45.5	7	6	17	30	10	14	9	25	10	58	6
35	SARATH C	11	17	28	6	6	24	41	14	10	14	8	11	57	8
36	SHILPA A N	12	18	30	7	7	18.5	32.5	17	19	19	12	13	80	6
37	SUDADEV S	9	20	29	5	6	24	35	8	12	14	15	10	59	7
38	SUJATHA M	10	28.5	38.5	7	8	35	50	18	19	16	10	12	75	6
39	SUMAVYA A A	12	23	35	5	6	24	35	20	16	12	10	13	71	7
40	SYAM KRISHNAN P K	15	27	42	4	4	33	41	17	12	19	19	6	73	6
41	VANITHA M	19	10.5	29.5	10	10	9.5	29.5	20	14	19	19	8	80	6
42	ABINASHA C	15	26	41	7	10	24	41	13	12	15	12	14	66	7
43	Bharathi G	10	18	28	9	8	14	31	14	12	10	10	11	57	7
44	Dileep D	12	20	32	8	9	18	35	10	14	12	8	12	56	6
45	Sowmiya Mary L	18	21	39	9	9	15.5	33.5	15	19	14	18	14	80	9
46	AKSHAY SIVARAJ	15	27	42	8	10	20	38	12	15	14	10	15	66	8
	NO OF STUDENTS ATTENDED	46	46	46	46	46	46	46	46	46	46	46	46	46	46
	MAX MARK CO WISE	20	30	50	10	10	30	50	20	20	20	20	20	100	10
	50	10	15	25	5	5	15	25	10	10	10	10	10	50	5
	CO WISE No of students above threshold 50%	42	36	46	43	41	29	46	41	44	42	44	11	46	46
	LEVEL	3	3	3	3	3	3	3	3	3	3	3	3	3	3

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PROCEDURE FOR ATTAINMENT OF CO:

Step1 : The student's individual course marks are been entered at question wise.

Step2 : The CO attainment is calculated based on 20% weightage of internal marks and 80% Weightage of university marks.

Step3 : CO attainment value is calculated.

11. COURSE OUTCOME ATTAINMENT OF COURSE

Course Code	Course Title	EXTERNAL ASSESSMENT (EA)	EXTERNAL ASSESSMENT FOR 80% (EA80%)	INTERNAL ASSESSMENT (IA)	INTERNAL ASSESSMENT FOR 20% (IA20%)	TOTAL ATTAINMENT (TA)
			(EA*0.8)		(IA*0.2)	TA=(EA*0.8) + (IA*0.2)
C403	Cloud Computing	3.00	2.40	3.00	0.60	3.00

NOTE: Template for calculating CO Attainment values:

- EXTERNAL ATTAINMENT FOR 80% = EXTERNAL ASSESSMENT (EA) * 80%
- INTERNAL ATTAINMENT FOR 20% = INTERNAL ASSESSMENT (IA) * 20%
- TOTAL ATTAINMENT(TA) = EXTERNAL ASSESSMENT FOR 80% + INTERNAL ASSESSMENT FOR 20%

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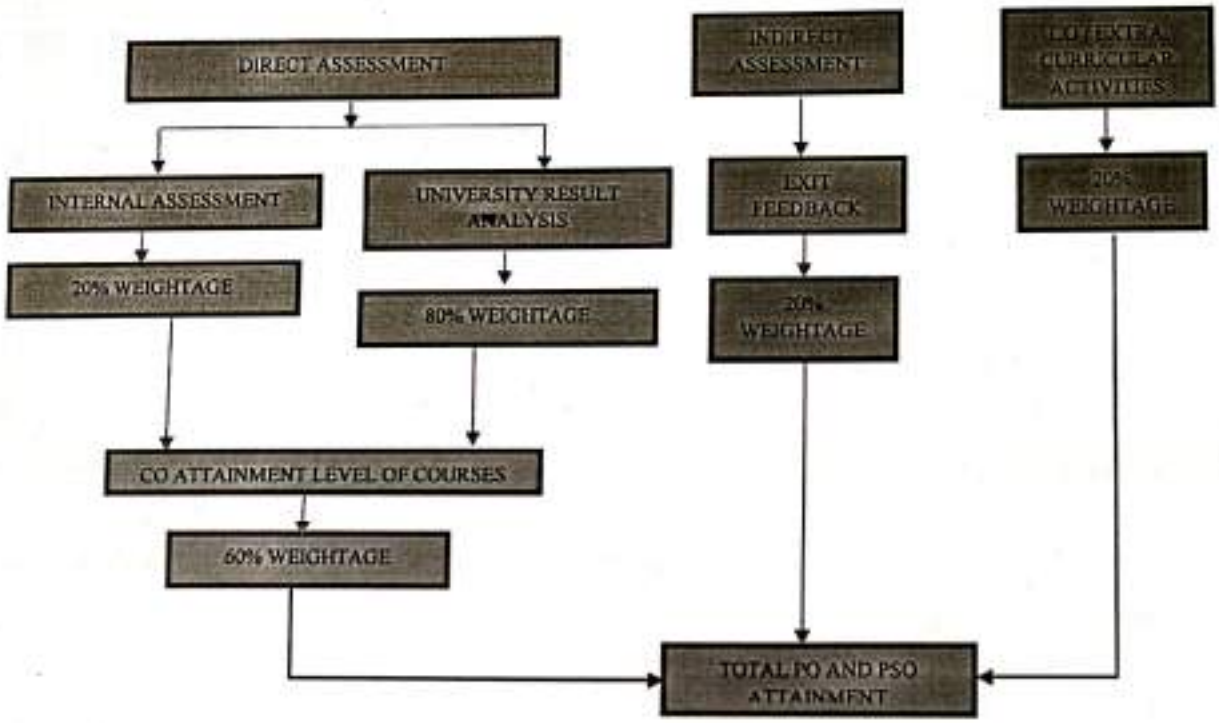
12. ASSESSMENT TOOLS AND PROCESS OF POs and PSOs ATTAINMENT



PROCEDURE FOR ATTAINMENT OF POs & PSOs:

Step1: The student's individual subject marks are been entered.

Step2: The CO attainment calculation is calculated based on 20% weightage of internal marks & 80% weightage of university marks.

Step3: The individual subject POs and PSOs attainment level are entered in the table.

Step4: CO attainment value is calculated with 60% of weightage.

Step5: Indirect Assessment value is calculated with 20% of weightage.

Step6: Co –Curricular and Extra – Curricular activity values are calculated with 20% of weightage

Step5: Finally PO attainment value is calculated.

Step6: The Graph is plotted for the attainment of POs & PSOs.

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NBA NAAC A

SAMPLE CO ATTAINMENT CALCULATION:

CO ATTAINMENT CALCULATION (WEIGHTAGE BASED)

C403	TEST1	TEST2	TEST3	INT	UNIV
C403.1	3		3	3	3
C403.2	3		3	3	3
C403.3		3	3	3	3
C403.4		3	3	3	3
C403.5			3	3	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINTMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINTMNET FOR THE SUBJECT				3.00	

COURSE OUTCOME MAPPING WITH POs & PSOs

SUBJECT	CO Vs PO CS8791 - Cloud Computing													
COURSE COUTCOME	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO 1	PSO 2
C403.1	2	2	1	1	0	2	0	0	1	1	0	1	1	3
C403.2	2	2	1	2	0	1	0	0	1	1	0	2	1	3
C403.3	2	2	2	2	2	1	0	0	3	1	0	2	1	2
C403.4	3	3	2	3	2	1	0	0	2	1	0	3	1	3
C403.5	3	3	3	3	2	2	1	1	2	1	2	3	1	2
C403	2.40	2.40	1.80	2.20	2.00	1.40	1.00	1.00	1.80	1.00	2.00	2.20	1.00	2.60
CO ATTAINMENT	2.40	2.40	1.80	2.20	2.00	1.40	1.00	1.00	1.80	1.00	2.00	2.20	1.00	2.60

PO ATTAINMENT CALCULATION

$$\text{PO ATTAINMENT} = \frac{\text{CO Vs PO MAPPING AVERAGE}}{\text{MAXIMUM ATTAINMENT VALUES}} * \text{FINAL CO ATTAINTMNET FOR THE COURSE}$$

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➢ **Indirect Assessment Method**

The Indirect Assessment Method for PO assessment is described as below:

- Student's Exit Survey Feedback

  At the end of the semester, the feedback to assess the POs and PSOs is obtained from the students for courses through survey forms.

- Co-Curricular and Extra Curricular Activities.
  Co-Curricular and Extra Curricular Activities are considered to assess the PO and PSO attainment.

13. PO and PSO ATTAINMENT OF COURSE

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C403	2.40	2.40	1.80	2.20	2.00	1.40	1.00	1.00	1.80	1.00	2.00	2.20	1.00	2.60

NOTE: Template for calculating Final PO and PSO Attainment values

$$\text{PO ATTAINMENT} = \frac{\text{CO VS PO MAPPING AVERAGE}}{\text{MAXIMUM ATTAINMENT VALUES}} * \text{FINAL CO ATTAINTMNET FOR THE COURSE}$$

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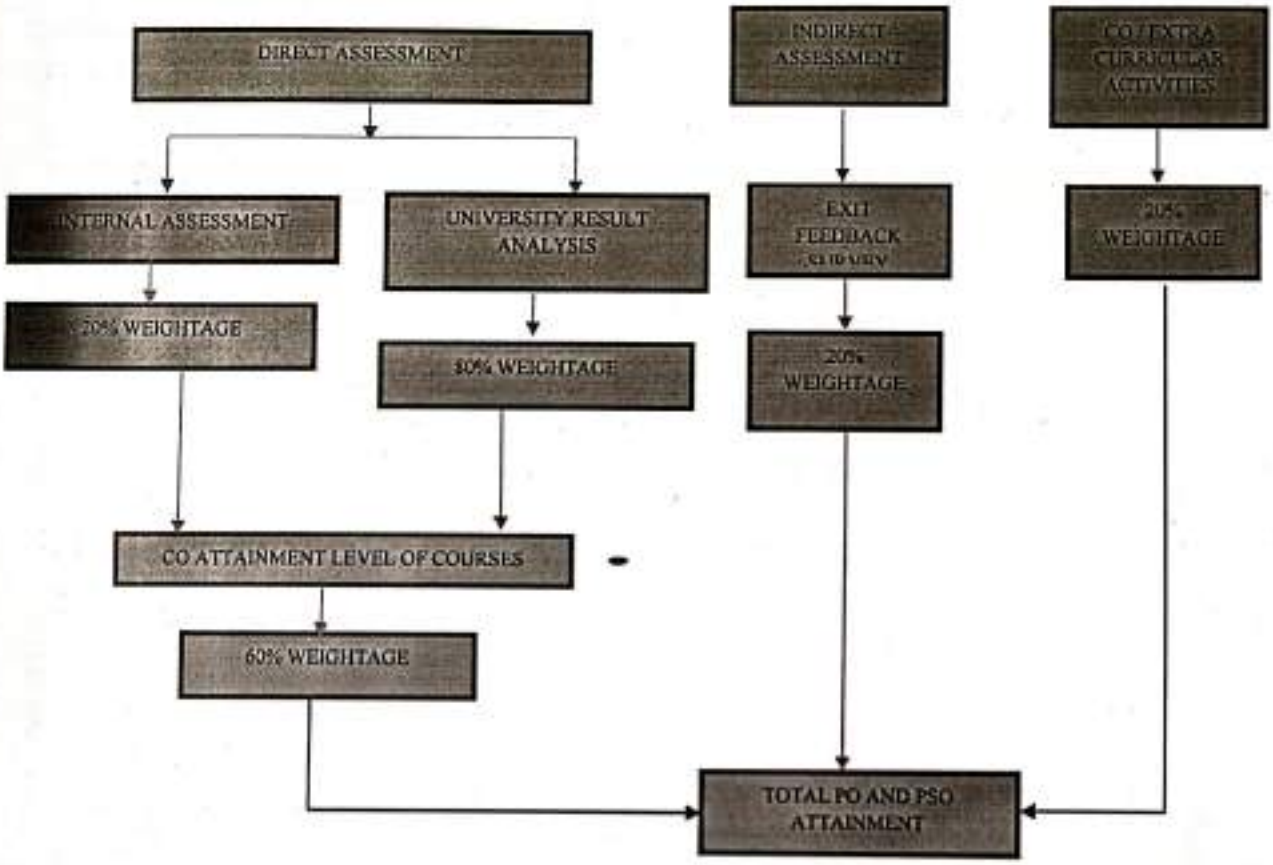
PO ASSESSMENTS & ATTAINMENTS



The Program Assessment Committee decided to have the following PO Assessment methods for various POs, depending on the number of courses contributing to the POs:

1) POs having more than 50% Courses Contribution (PO1, PO2, PO3, PO4):

1	Assessment of COs & their Contribution to PO Attainment	60%

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2) POs having less than 50% Courses Contribution (PO5…..P12):

1	Students' Exit Feedback	20%
2	Assessment of Students' Participation in Co / Extra Curricular Activities & Contribution to PO Attainments	20%

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ASSESSMENT OF CO / EXTRA CURRICULAR ACTIVITIES AND STUDENTS PARTICIPATION

S. No.	Activities	Poor (1)	Satisfactory (2)	Good (3)	Program / Event Details	Assessment
1	Guest Lecture / Seminar (Co-Curricular)	Program organizes 1-2 Guest Lecturers	Program Organizes 3-4 Lecturers	Program Organizes 5 or more Lecturers	5	3.00
2	Workshop (Co-Curricular)	Program organizes 1-2 Lecturers	Program Organizes 3-4 Lectures	Program Organizes 5 or more Lecturers	1	1.00
3	National Conference (Co-Curricular)	Nil	Program organizes 1-2 Lecturers	Program Organizes 3-4 Lecturers	1	2.00
4	Paper Presentations (Co-Curricular)	Nil	Every Year	Every Semester	Every Year	2.00
5	NSS Activities (Extra-Curricular)	Less than 25% Program Students' Participate	26-50% Students Participate	Above 50% Students' Participate	Above 50%	1.00
6	Library, Internet Hours (Co-Curricular)	Nil	Lib or Internet	Both	Both	3.00
7	Students' Seminar & English Communication Hours (Co-Curricular)	Nil	Either	Both	Both	3.00
8	Entrepreneurships –	Nil	1-2 Lecturers	More	More	2.00

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	Lecturers (Co-Curricular)			Lecturers		
9	Students' Qualification in English Communication / Certification (Co-Curricular)	Nil	25%-50% Students	Above 50% Students	25%-50%	2.00
10	Students' Participation in Cultural Events, Activities	10-25%	26%-50%	51% & Above	26%-50%	1.00

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JCT COLLEGE OF ENGINEERING AND TECHNOLOGY

Programme: B.E. Mechanical Engineering

Year & Sem: IV & VII

Internal Assessment Test :I ,2,3 & University MAX MARK 50

Course Code & Name: All Subject VII SEM

SNO	STUDENT NAME	CIM				POM				PROJECT			
		TEST1 (MAX MARK 50)	TEST2 (MAX MARK	TEST 3 (MAX	UNIV	TEST1 (MAX MARK	TEST2 (MAX MARK	TEST 3 (MAX MARK	UNIV	TEST1 (MAX MARK	TEST2 (MAX MARK	TEST 3 (MAX MARK	UNIV
1	ABDUL BASIDE A	48	21	34	6	46	30	24	6	34	46	40	9
2	ABHINAND KRISHNA	48	45	35	8	46	28	25	7	30	40	42	9
3	ADIL HASHIM S	45	23	34	6	46	24	23	6	45	42	32	9
4	AKASH S	43	39	34	7	32	8	26	7	21	32	30	10
5	AKHIL BINOY	42	22	35	6	48	24	15	7	28	30	28	10
6	ALTHAF A	46	30	34	6	34	23	27	7	37	28	24	9
7	AMAL K S	46	32	40	6	38	25	28	7	20	24	8	9
8	AMAL V JAYAPRAKASH	39	34	28	6	21	26	29	9	46	25	24	9
9	AMARNATH A	43	39	29	6	31	15	30	7	45	24	25	10
10	ANILJITH V P	45	22	45	6	42	27	26	6	45	25	23	9
11	ARUN P K	25	40	32	7	46	28	32	8	33	23	26	10
12	DEEPAK KUMAR V	45	26	36	0	45	29	35	0	32	6	15	9
13	GOKUL M	39	22	15	6	48	30	35	7	31	15	27	9
14	HASHIM S K	22	26	45	7	42	26	34	6	45	31	28	9
15	IRSHAD I	40	30	46	6	42	32	35	6	46	28	29	10
16	JASWIN JAYAKUMAR	24	30	40	6	43	35	34	6	26	44	30	9
17	MOHAMMED SAHAL J	48	26	42	7	42	35	34	7	22	21	26	10
18	MUHAMMED SHAFAS K A	42	32	32	6	43	34	35	6	26	20	32	10
19	PACHAIYARASAN G	42	35	30	0	44	35	34	6	30	30	35	9
20	PINJOFFER F THEKKANATH	30	35	28	0	44	34	30	0	22	43	35	10
21	PRAVEENRAJ J	42	34	24	0	45	34	45	6	37	37	34	9
22	PREMJITH P	43	35	25	0	45	35	21	6	20	35	35	9
23	RAGHUL R	44	34	24	0	24	34	38	0	43	34	34	9
24	RAHUL P S	10	34	25	6	21	30	22	6	45	34	34	9
25	SANJAY V	45	35	23	0	20	45	26	6	45	35	35	9
26	SILAMBARASAN G	45	34	6	6	30	21	30	6	43	34	34	10
27	SIVALAL M	40	40	15	7	43	38	22	9	44	40	30	10
28	SREERAG A	45	28	31	6	37	37	37	8	45	45	45	10
29	SRIDHAR K	45	29	28	0	19	20	20	6	43	45	21	9
30	SRIDHAR K	45	45	44	0	46	46	43	0	43	46	38	0
31	SRIRAM K	37	32	21	0	47	45	45	7	46	31	47	9
32	VASUDEVAN K	21	36	20	0	43	45	45	0	46	27	44	9
33	VIGNESH M	20	15	30	0	33	33	43	0	36	28	45	9
34	VIGNESH S	29	27	43	0	38	32	44	6	32	16	36	9
35	VIJAYAKUMAR T	33	32	37	6	48	31	45	6	19	22	43	10
36	VISAKH M S	37	29	19	6	43	45	43	7	33	37	38	10
37	VISHNNU M	29	45	22	6	43	46	43	8	18	21	34	9
38	VISHNU K P	32	45	19	6	44	47	46	8	22	17	22	9
39	VYSAG S	32	46	39	7	47	22	46	8	33	19	37	10
40	PUGAZHENTHI P	36	37	18	6	2	18	24	6	35	41	45	9
41	ANANDU K	31	25	30	6	45	20	39	7	23	22	45	10
42	ANSON A A	27	27	32	6	34	31	42	8	34	31	22	10
43	TOMCY ROY	32	29	20	6	40	40	44	8	12	26	43	10
44	SAMUVEL SEBASTIAN	29	33	32	6	27	27	45	6	26	39	21	10
45	RITHIN PRAVEEN	31	31	35	0	19	19	40	0	34	31	49	10
	No of student >=50%	40	39	32	31	38	34	37	38	36	32	36	44
	CO1	3		2	1	3		3	3	3		3	3
	CO2	3		2	1	3		3	3	3		3	3
	CO3		3	2	1		2	3	3		2	3	3
	CO4		3	2	1		2	3	3		2	3	3
	CO5			2	1			3	3			3	3

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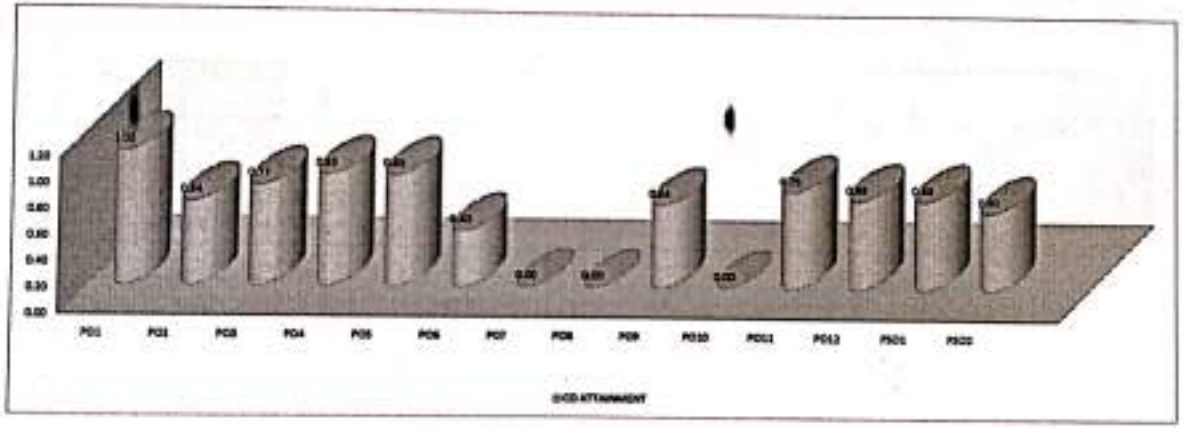
C411	TEST1	TEST2	TEST3	INT	UNIV
CO1	3		2	2.5	3
CO2	3		2	2.5	3
CO3		3	3	2.5	3
CO4		3	2	2.5	3
CO5			2	2	3
INTERNAL/UNIV ATTAINMENTS				2.40	3.00
WEIGHTAGE				20%	80%
CO ATTAINTMENT FOR THE SUBJECT				0.48	0.80
FINAL CO ATTAINTMINET FOR THE SUBJECT				1.28	

RUBRICS

26	60% OF STUDENT ABOVE 50% - 1
32	70% OF STUDENT ABOVE 50% - 2
35	80% OF STUDENT ABOVE 50% - 3

SUBJECT	CO Vs PO													
COURSE COUTCOME	CO#													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C411.1	3	1	3	2					1		2	3	2	1
C411.2	3		3	2	3				3		1	2	2	2
C411.3	3	2	1								2	1	1	1
C411.4	3		2		2						2	1	1	2
C411.5	3		2	3	3	1						2	2	1
C411	2.4	1.5	1.8	2	2	1			1.5		1.75	1.6	1.6	1.4
CO ATTAINMENT	1.02	0.64	0.77	0.85	0.85	0.43	-	-	0.64	-	0.75	0.68	0.68	0.60



C410	TEST1	TEST2	TEST3	INT	UNIV
CO1	3		3	3	3
CO2	3		3	3	3
CO3		3	3	2.5	3
CO4		3	3	2.5	3
CO5			3	3	3
INTERNAL/UNIV ATTAINMENTS				2.80	3.00
WEIGHTAGE				20%	80%
CO ATTAINTMENT FOR THE SUBJECT				0.56	2.40
FINAL CO ATTAINTMINET FOR THE SUBJECT				2.96	

RUBRICS

26	60% OF STUDENT ABOVE 50% - 1
32	70% OF STUDENT ABOVE 50% - 2
36	80% OF STUDENT ABOVE 50% - 3

SUBJECT	CO Vs PO													
COURSE COUTCOME	PO#													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C410.1	3	3			3	2	2	2	2					
C410.2	3	3			3	2	2	2	2					
C410.3	3	3			3	2	2	2	2					
C410.4	3	3			3	2	2	2	2					
C410.5	3	3			3	2	2	2	2					
C410	3	3			3	2	2	2	2					
CO ATTAINMENT	2.96	2.96	-	-	2.96	1.97	1.97	1.97	1.97	-	-	-	-	-

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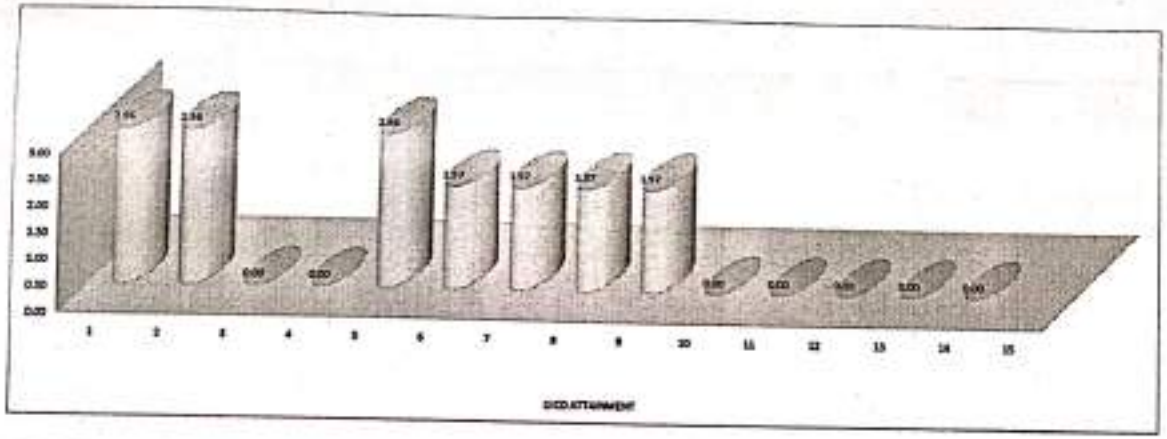
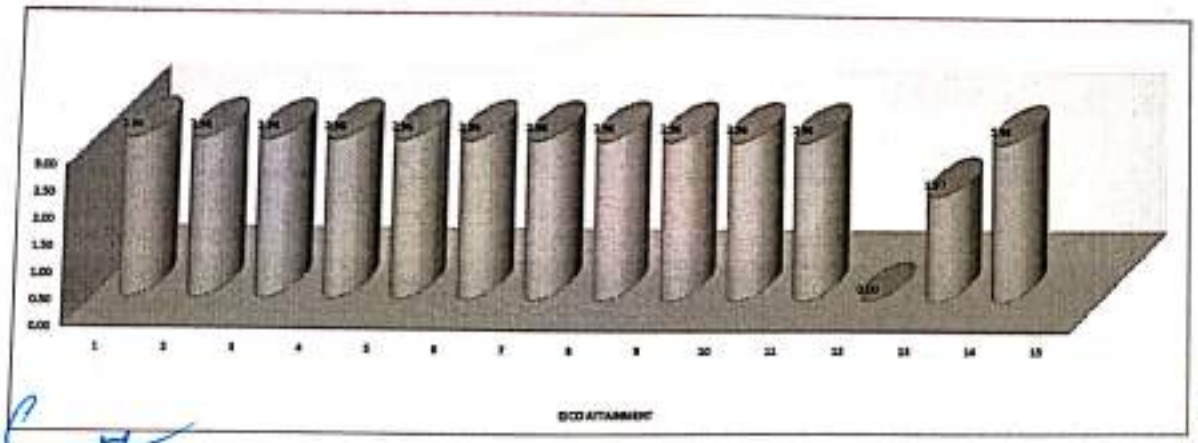


C412	TEST1	TEST2	TEST3	INT	UNIV
CO1	3		3	3	3
CO2	3		3	3	3
CO3		3	3	2.5	3
CO4		3	3	2.5	3
CO5			3	3	3
INTERNAL/UNIV ATTAINMENTS				2.80	3.00
WEIGHTAGE				20%	80%
CO ATTAINTMENT FOR THE SUBJECT				0.56	7.40
FINAL CO ATTAINTMNET FOR THE SUBJECT				2.96	

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1
32	70% OF STUDENT ABOVE 50% - 2
36	80% OF STUDENT ABOVE 50% - 3

SUBJECT	CO Vs PO													
COURSE COUTCOME	PROJECT WORK													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C412.1	3	3	3	3	3	3	3	3	3	3	3		2	3
C412.2	3	3	3	3	3	3	3	3	3	3	3		2	3
C412.3	3	3	3	3	3	3	3	3	3	3	3		2	3
C412	3	3	3	3	3	3	3	3	3	3	3		2	3
CO ATTAINMENT	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	-	1.97	2.96



IQAC DIRECTOR

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PSOs ATTAINMENT														
SUBJECTWISE PSOs ATTAINMENT														
COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101	1.00	0.60	-	-	-	-	-	-	1.00	2.80	-	1.20	-	-
C102	2.57	2.76	-	-	-	-	-	-	-	-	-	2.37	-	-
C103	1.87	1.12	0.37	-	-	-	-	-	-	-	-	0.19	-	-
C104	1.36	0.97	0.78	0.39	1.75	-	-	-	-	-	-	2.19	0.97	0.39
C105	2.80	1.87	1.68	1.87	-	-	-	-	-	1.87	-	1.87	1.87	1.87
C106	2.96	1.97	1.58	0.59	-	-	-	-	1.78	1.97	-	2.17	2.17	2.96
C107	3.00	2.00	1.80	2.00	-	-	-	-	-	2.00	-	2.00	2.00	2.00
C108	1.97	1.18	0.79	-	-	-	-	1.97	0.20	-	-	-	0.00	0.00
C109	1.00	-	-	-	-	1.00	-	2.00	1.00	2.60	-	2.00	-	-
C110	2.37	2.57	-	-	-	-	-	-	-	-	-	1.97	0.99	1.97
C111	2.43	1.87	-	-	-	-	-	-	-	0.93	-	0.93	0.93	0.93
C112	2.72	1.81	0.91	1.81	-	1.81	-	-	-	-	-	1.81	-	1.81
C113	1.36	1.75	-	1.56	-	0.97	2.92	-	1.95	1.95	-	1.95	1.75	1.56
C114	2.96	1.97	1.58	0.99	-	-	-	-	1.97	1.97	-	2.17	2.17	2.96
C115	3.00	1.60	2.60	-	2.00	2.00	-	-	2.00	-	1.00	2.00	2.00	2.00
C116	2.53	2.43	2.43	1.95	1.95	1.95	-	-	1.65	1.95	1.95	2.43	1.95	1.36
C201	1.21	0.93	-	-	-	-	-	-	-	-	-	-	0.47	-
C202	1.32	0.88	0.66	-	0.88	0.88	0.88	-	0.88	-	-	0.88	1.06	1.14
C203	1.18	0.91	0.79	0.73	-	-	-	-	0.91	0.91	-	1.09	1.09	1.09
C204	1.21	1.03	1.12	0.75	0.56	0.47	0.65	-	0.93	0.47	-	0.75	1.12	0.75
C205	1.36	1.36	0.91	1.36	0.91	0.91	0.91	0.45	0.91	0.91	0.91	1.36	1.36	0.91
C206	2.88	1.54	2.50	-	1.92	1.92	-	0.96	1.92	0.96	0.96	1.92	1.92	1.92
C207	3.00	2.00	2.40	2.00	1.80	-	-	2.00	2.00	1.00	1.00	2.80	1.00	1.80
C208	2.57	2.47	2.47	1.97	1.97	1.97	-	-	1.68	1.97	1.97	2.47	1.97	1.38
C209	3.00	-	-	-	-	1.00	1.00	1.00	2.00	2.00	1.00	2.00	-	-
C210	3.00	2.60	-	-	-	-	-	-	1.00	-	1.00	-	1.00	1.00
C211	2.92	2.53	2.19	2.19	-	0.97	0.97	-	1.95	0.97	-	1.95	1.95	2.53
C212	2.65	1.89	2.08	0.38	0.95	0.95	0.76	-	-	1.70	1.14	1.89	2.08	1.89
C213	3.00	2.00	2.00	2.40	-	2.40	-	-	0.60	2.00	-	1.00	2.20	2.60
C214	2.92	1.95	1.07	-	0.78	0.78	-	-	1.95	-	-	1.95	2.34	2.53
C215	1.34	1.73	-	1.54	-	0.96	2.88	-	1.92	1.92	-	1.92	1.73	1.54
C216	2.60	2.20	3.00	2.00	-	-	-	-	-	2.00	-	2.00	1.60	2.00
C217	2.60	2.20	3.00	2.00	-	1.00	-	-	-	2.00	-	2.00	1.60	2.00
C218	-	-	-	-	1.00	-	-	-	-	3.00	-	2.00	2.00	-
C301	2.96	2.57	0.99	0.99	-	-	1.97	-	1.78	1.97	-	2.57	2.96	2.96
C302	2.84	1.89	2.84	0.95					0.95	0.95		0.95	1.89	1.89
C303	1.88	0.94	-	0.94	1.88	0.94	-	0.94	0.94	0.94	-	0.94	1.88	0.94
C304	1.95	2.92	0.97	1.95	-	-	-	-	0.97	0.97	-	0.97	2.14	1.95
C305	2.78	-	-	-					1.85	1.85	0.93	0.93	0.93	1.85
C306	2.96	1.97	-	1.97	-	-	-	1.97	1.97	1.97	-	1.97	1.97	1.97
C307	2.60	2.20	3.00	2.00	-	-	-	-	-	2.00	-	2.00	1.60	2.00
C308	3.00	1.00	-	1.00	-	2.00	-	1.00	2.00	2.00	-	1.00	2.00	1.00
C309	2.84	2.84	1.89	1.89					1.89	1.89		1.89	1.89	1.89
C310	2.60	2.00	2.20	-	2.60	0.40	-	-	1.10	2.00	-	2.00	2.20	1.60
C311	2.39	1.85	2.41	1.11	-	-	-	-	2.04	1.85	-	2.41	1.85	1.85
C312	2.82	2.82	1.88	1.88	2.82	1.88	-	-	1.88	1.88	1.88	1.88	1.88	1.88
C313	2.88	1.92	1.92	-					-	1.92	-	1.54	2.11	1.92
C314	3.00	-	3.00	2.00	-	-	2.00	-	1.00	2.00	-	1.00	2.00	2.00
C315	3.00	2.00	2.40	2.00	1.80	-	-	2.00	2.00	1.00	1.00	2.80	1.00	1.80
C316	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	-	2.00	3.00
C317	1.00	-	-	-	1.00	2.00	-	-	-	3.00	-	1.00	1.00	-

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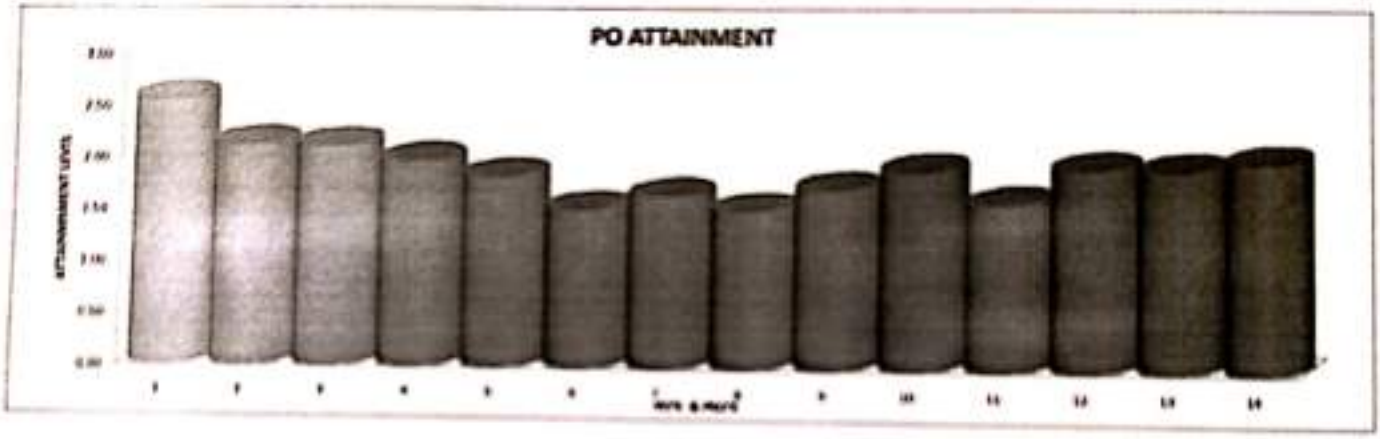
C401	2.69	2.11	1.92	2.40	-	-	2.40	-	-	1.92	1.92	2.30	2.30	1.73
C402	2.69	1.92	2.11	2.50	1.54	1.54	1.73	0.58	0.77	0.38	1.54	2.30	2.11	1.73
C403	3.00	2.00	1.00	3.00	3.00	2.00	2.00	-	1.80	-	1.00	2.00	1.00	2.00
C404	-	-	0.87	0.87	-	1.73	-	1.73	1.73	0.87	-	0.87	0.87	-
C405	1.97	1.97	1.97	-	-	1.97	-	-	-	1.97	1.28	1.97	1.97	1.97
C406	2.96	2.17	2.17	2.57	2.57	1.97	1.97	-	1.97	2.47	1.97	1.97	1.97	1.97
C407	3.00	2.00	3.00	2.30	2.20	-	-	-	2.00	2.00	2.00	2.80	1.60	1.20
C408	3.00	1.60	3.00	3.00	3.00	1.00	-	1.00	1.00	2.00	2.60	2.00	2.20	3.00
C409	3.00	2.00	-	-	-	-	-	1.00	1.00	1.00	-	1.00	3.00	3.00
C410	2.96	2.96	-	-	2.96	1.97	1.97	1.97	1.97	-	-	-	-	-
C411	1.02	0.64	0.77	0.85	0.85	0.43	-	-	0.64	-	0.75	0.68	0.68	0.60
C412	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	-	1.97	2.96
DIRECT	2.44	1.91	1.89	1.72	1.62	1.33	1.48	1.26	1.54	1.77	1.41	1.74	1.68	1.80
INDIRECT	3.00	2.95	2.98	2.95	2.63	2.28	2.35	2.50	2.43	2.40	2.30	2.63	2.78	2.68
DIRECT 80%	1.95	1.53	1.51	1.38	1.30	1.06	1.18	1.01	1.23	1.41	1.12	1.39	1.35	1.44
INDIRECT 20%	0.60	0.59	0.60	0.59	0.53	0.46	0.47	0.50	0.49	0.48	0.46	0.53	0.56	0.54
PO ATTAINMENT	2.55	2.12	2.11	1.97	1.82	1.52	1.65	1.51	1.72	1.89	1.58	1.92	1.90	1.98



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CO V PO MAPPING MATRIX

SUBJECTWISE CO V PO MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101														
C102														
C103														
C104														
C105														
C106														
C107														
C108														
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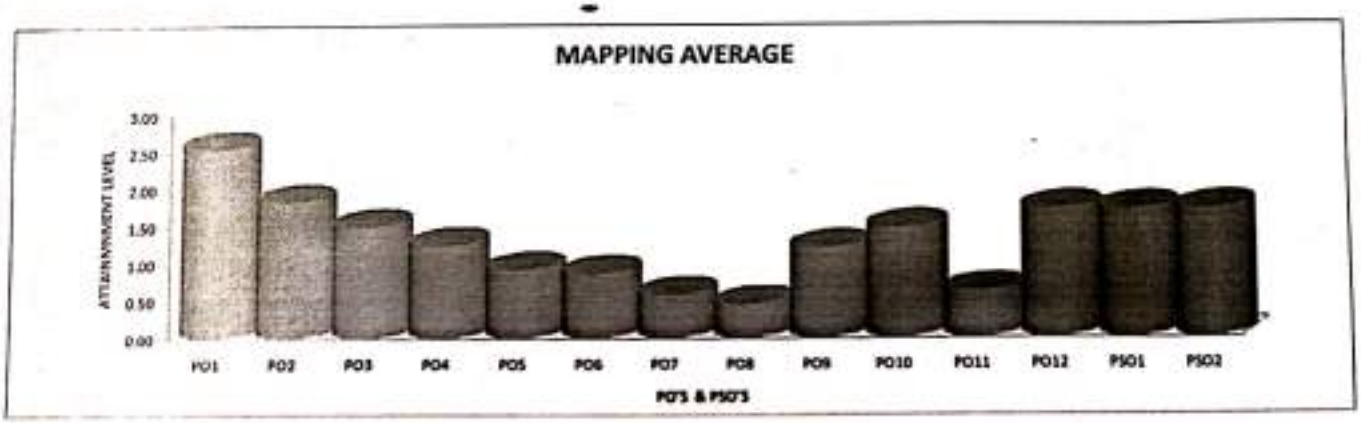
C401														
C402														
C403														
C404														
C405														
C406														
C407														
C408														
C409														
C410														
C411														
C412														
AVERAGE	2.54	1.82	1.48	1.24	0.91	0.86	0.57	0.45	1.19	1.46	0.62	1.71	1.70	1.70



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14. PO AND PSO ATTAINMENT OF ALL COURSES

PO & PSO ATTAINMENT+D6:S32														
SUBJECTWISE PO & PSO ATTAINMENT														
COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101	-	-	-	-	-	2.00	2.00	0.00	2.00	2.80	-	2.00	-	-
C102	2.96	2.96	-	-	-	-	-	-	-	-	-	1.97	2.96	2.96
C103	1.97	1.97	-	1.23	-	-	-	-	-	-	-	1.23	0.99	-
C104	1.97	1.97	-	-	1.97	1.97	1.97	-	-	-	-	-	-	-
C105	3.00	2.00	1.80	2.00	-	-	-	-	-	2.00	-	2.00	2.00	2.00
C106	3.00	2.00	3.00	1.00	1.00	2.00	-	-	2.00	-	-	2.00	3.00	1.00
C107	2.68	1.79	1.61	1.79	-	-	-	2.10	-	1.79	-	1.79	1.79	1.79
C108	2.00	2.00	2.00	-	-	-	-	2.00	1.00	-	-	-	2.00	2.00
C109	0.80	-	-	-	-	1.00	-	0.80	1.00	2.60	-	2.00	-	-
C110	2.72	2.72	-	-	-	-	-	-	-	-	-	1.81	2.72	2.72
C111	1.79	1.79	-	1.19	-	-	-	-	-	-	-	1.12	0.89	-
C112	1.79	2.23	2.68	2.38	2.23	-	-	0.89	2.68	0.89	0.89	2.08	1.79	1.79
C113	0.97	0.97	0.39	0.39	0.58	1.75	2.14	0.78	0.78	0.97	0.58	0.39	0.97	1.36
C114	2.96	2.96	2.37	-	-	-	-	-	2.17	2.96	1.97	2.96	2.96	2.96
C115	2.00	2.00	2.00	-	-	-	-	2.00	1.00	-	-	-	-	-
C116	3.00	3.00	3.00	1.00	1.00	3.00	-	-	1.00	-	1.00	2.00	2.00	2.00
C201	2.00	2.00	-	-	-	-	-	-	-	-	-	2.00	3.00	3.00
C202	3.00	2.00	2.00	-	1.00	-	-	-	-	-	-	1.00	2.00	1.00
C203	2.40	2.20	2.40	-	-	-	-	-	-	-	-	-	2.00	2.00
C204	2.20	2.40	2.60	-	-	-	-	-	2.00	-	-	-	1.00	2.00
C205	2.00	1.40	1.20	-	-	-	-	-	-	-	-	-	1.00	2.20
C206	2.50	2.00	2.00	-	-	-	-	-	-	2.00	-	2.00	2.00	2.00
C207	3.00	2.60	2.20	2.40	1.40	-	-	-	1.00	-	2.00	2.00	2.00	2.80
C208	2.80	2.80	2.80	2.20	2.60	-	-	2.00	2.20	2.40	3.00	2.60	3.00	2.80
C209	1.20	2.00	1.00	1.00	0.00	2.25	1.00	2.40	2.00	3.00	1.00	2.00	1.00	1.00
C210	2.40	2.00	-	-	-	-	-	-	-	-	-	-	1.00	-
C211	3.00	2.20	2.80	-	-	-	-	-	-	-	-	-	3.00	2.00
C212	3.00	2.60	2.60	2.40	2.20	2.00	-	2.00	2.00	2.40	2.20	2.80	3.00	2.60
C213	3.00	3.00	3.00	2.00	2.00	-	-	-	2.00	3.00	-	2.00	3.00	3.00
C214	3.00	3.00	2.60	-	1.00	-	-	-	1.00	-	1.00	2.00	2.00	3.00
C215	3.00	2.60	2.60	-	2.00	2.00	-	2.00	2.00	2.60	-	2.60	3.00	2.00
C216	2.80	2.80	2.80	2.40	2.60	2.50	2.00	2.00	2.20	2.40	3.00	2.60	3.00	2.80
C217	2.60	1.00	2.80	1.80	2.60	-	-	1.00	2.00	1.00	1.00	2.00	1.00	2.60
C218	1.20	1.67	1.00	1.00	-	1.67	1.50	1.60	1.40	3.00	-	2.00	-	-

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C301	1.97	1.97	-	-	-	-	-	-	-	-	-	-	0.99	-
C302	2.60	2.60	1.95	2.34	2.19	1.36	1.95	-	1.95	1.95	0.97	1.95	1.62	2.92
C303	2.96	-	-	-	0.99	1.97	1.48	-	-	-	-	0.99	1.97	0.99
C304	2.40	2.60	2.40	2.75	-	-	-	-	-	1.00	-	2.67	1.00	2.00
C305	2.92	2.73	2.73	1.95	1.95	-	-	-	1.95	1.95	1.95	1.95	2.92	2.53
C306	2.00	-	-	-	2.00	2.00	2.00	2.00	-	3.00	-	-	-	1.00
C307	1.80	1.25	3.00	1.00	3.00	2.00	-	-	3.00	-	-	1.00	2.00	3.00
C308	3.00	2.80	2.80	2.00	3.00	2.00	-	-	2.00	3.00	2.00	2.00	1.00	3.00
C309	3.00	3.00	2.60	2.00	3.00	-	-	-	-	3.00	-	2.40	1.00	3.00
C310	1.95	1.95	2.92	-	1.95	-	-	-	1.95	-	1.95	1.95	1.95	2.92
C311	2.92	2.73	2.34	2.53	2.34	1.95	2.92	-	2.34	2.14	1.75	2.53	2.34	2.73
C312	1.95	2.73	2.92	2.60	2.92	1.30	1.30	-	1.95	2.92	-	2.60	0.97	2.92
C313	1.95	2.34	2.34	2.92	2.34	1.95	-	-	1.95	2.92	-	2.43	0.97	2.92
C314	2.92	1.95	2.34	1.95	-	-	-	-	1.95	1.95	-	-	2.92	1.95
C315	1.62	2.43	1.95	1.95	1.95	-	-	-	-	1.95	-	1.95	0.97	1.75
C316	2.00	2.00	3.00	-	2.00	-	-	-	-	2.00	2.00	2.00	2.00	3.00
C317	3.00	3.00	3.00	2.00	3.00	1.00	1.00	-	2.00	-	2.00	3.00	3.00	3.00
C318	1.00	-	-	-	1.80	2.80	2.00	2.00	2.20	1.80	2.00	3.00	2.00	3.00
C319	1.20	1.80	-	-	1.20	-	2.00	1.80	2.20	2.80	-	1.60	1.40	1.20
C401	3.00	1.67	1.50	1.75	3.00	3.00	-	-	2.00	1.00	-	3.00	1.00	2.00
C402	2.60	2.00	2.00	-	-	-	-	-	-	-	-	-	3.00	2.60
C403	2.40	2.40	1.80	2.20	2.00	1.40	1.00	1.00	1.80	1.00	2.00	2.20	1.00	2.60
C404	3.00	3.00	-	-	-	-	-	-	2.00	-	1.67	2.20	1.00	2.00
C405	2.40	2.80	2.60	-	-	-	-	-	3.00	2.33	-	-	2.00	3.00
C406	3.00	2.00	2.40	3.00	2.25	2.00	2.00	-	1.33	2.60	2.00	2.50	3.00	2.80
C407	2.40	2.60	2.20	2.20	2.00	-	-	-	1.60	2.00	-	2.40	1.00	2.00
C408	2.20	2.67	2.50	2.67	-	2.50	2.00	-	-	2.00	-	-	2.20	2.20
C409	3.00	2.40	2.60	2.00	2.00	-	-	-	-	-	-	-	2.40	2.20
C410	3.00	2.80	2.40	2.60	2.40	2.00	3.00	-	2.40	2.00	1.80	2.60	2.40	2.80
C411	2.40	2.20	1.00	1.50	1.00	1.00	1.00	1.00	3.00	3.00	1.00	1.00	-	1.00
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DIRECT	2.40	2.29	2.30	1.95	1.96	1.94	1.80	1.55	1.90	2.21	1.70	2.06	1.93	2.30
INDIRECT	2.80	2.90	2.90	2.80	2.90	2.90	2.90	2.90	2.90	2.80	2.90	2.90	2.90	2.90
DIRECT 80%	1.92	1.83	1.84	1.56	1.57	1.55	1.44	1.24	1.52	1.77	1.36	1.65	1.55	1.84
INDIRECT 20%	0.56	0.58	0.58	0.56	0.58	0.58	0.58	0.58	0.58	0.56	0.58	0.58	0.58	0.58
PO ATTAINMENT	2.48	2.41	2.42	2.12	2.15	2.13	2.02	1.82	2.10	2.33	1.94	2.23	2.13	2.42

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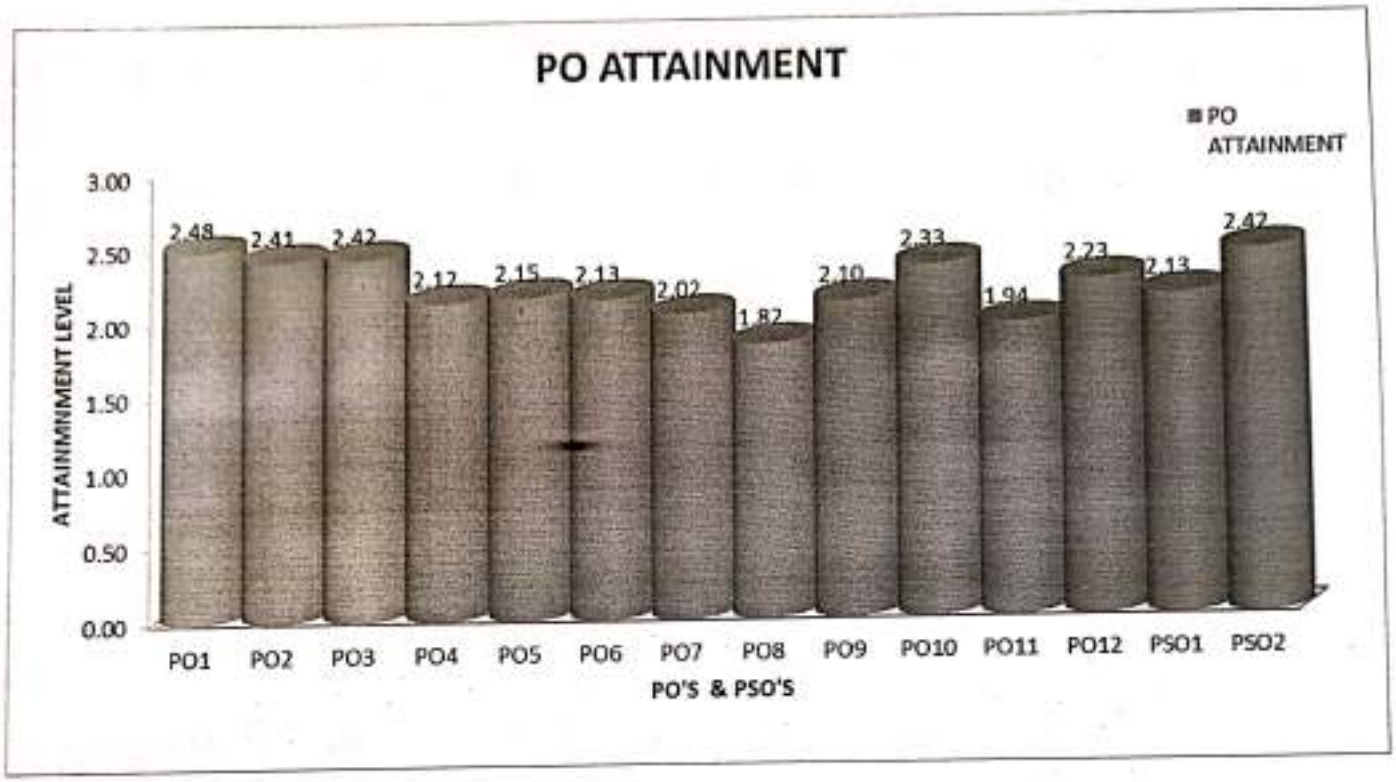

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ANNEXURE-I

I. EXIT SURVEY FEEDBACK FORMAT/SUMMARY FOR INDIRECT ASSESSMENT

ACADEMIC YEAR : 2020 - 2021 **YEAR / SEM : IV / VIII**

Batch : 2016-2020

Total No.of Students: 41 **Feedback from collected : 43**

Questions	PO / PSO	Excellent - 4	Good - 3	Average - 2	Fair - 1	Total Weightage		Percentage	Weightage Based on 3 scale
1	PO1	38	2	1	2	162	172	94	2.8
2	PO2	40	1	1	1	166	172	97	2.9
3	PO3	39	2	1	1	165	172	96	2.9
4	PO4	38	2	2	1	163	172	95	2.8
5	PO5	40	1	1	1	166	172	97	2.9
6	PO6	39	2	1	1	165	172	96	2.9
7	PO7	39	2	1	1	165	172	96	2.9
8	PO8	40	1	1	1	166	172	97	2.9
9	PO9	40	1	1	1	166	172	97	2.9
10	PO10	38	2	2	1	163	172	95	2.8
11	PO11	40	5	1	2	166	172	97	2.9
12	PO12	40	4	2	1	166	172	97	2.9
13	PSO1	39	2	1	1	165	172	96	2.9
14	PSO2	40	1	1	1	166	172	97	2.9
		OVER ALL PERCENTAGE				2310	2408	96	2.9

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Note: Template for calculating weight age-based feedback survey calculation:

- WEIGHTAGE= (4 * TOTAL NUMBER OF STUDENT) + (3 * TOTAL NUMBER OF STUDENT) + (2 * TOTAL NUMBER OF STUDENT) + (1 * TOTAL NUMBER OF STUDENT)
- TOTAL WEIGHTAGE = TOTAL NUMBER OF STUDENT * MAXIMUM WEIGHTAGE VALUE
- $\text{PERCENTAGE VALUE} = \frac{\text{WEIGHTAGE}}{\text{TOTAL WEIGHTAGES}} * 100$
- $\text{WEIGHTAGE BASED ON 3 SCALE} = \frac{\text{PERCENTAGE VALUE}}{100} * 3$

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STUDENT EXIT SURVEY FORM:

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT EXIT FEEDBACK

BATCH : 2017 – 2021 ACADEMIC YEAR: 2021 – 2022.
a) Name : Shilpa. A N
b) Year : 4th year.
c) Branch : Computer Science and Engineering
d) Present Address : Palakkad
Email-ID : Shilpa.[illegible]@gmail.com.
e) Please provide your comments on the following:

1. Are you able to apply Mathematics, Science, Engineering fundamentals to the solution of complex Engineering problems?
   : ☑ Excellent ☐ Good ☐ Average ☐ Fair
2. Are you able to analyze complex Engineering problems using first principles of Mathematics and Engineering sciences?
   : ☑ Excellent ☐ Good ☐ Average ☐ Fair
3. Are you able to design/ give solutions for complex engineering problems to meet the specified needs with the consideration of public health, safety, and environmental considerations?
   : ☑ Excellent ☐ Good ☐ Average ☐ Fair
4. Do you able to investigate complex Engineering problems?
   : ☐ Excellent ☑ Good ☐ Average ☐ Fair
5. Are you able to use modern engineering and IT tools to complex engineering activities?
   : ☑ Excellent ☐ Good ☐ Average ☐ Fair
6. i) Are you able to apply the background knowledge to the society?
   : ☑ Excellent ☐ Good ☐ Average ☐ Fair
7. i) Do you able to understand the professional solutions and to demonstrate the knowledge for sustainable development?
   : ☑ Excellent ☐ Good ☐ Average ☐ Fair
8. i) Do you think as professionally responsible person for your work nature?
   : ☑ Excellent ☐ Good ☐ Average ☐ Fair
9. i) Do you possess the knowledge to work as a leader in multidisciplinary fields?
   : ☑ Excellent ☐ Good ☐ Average ☐ Fair
10. Can you communicate professionally about engineering problems?
    : ☑ Excellent ☐ Good ☐ Average ☐ Fair
11. i) Can you shine and deliver your duty effectively while working with team?
    : ☑ Excellent ☐ Good ☐ Average ☐ Fair
12. i) Do you have ability to engage in independent and lifelong learning to cater technological change?
    : ☑ Excellent ☐ Good ☐ Average ☐ Fair
13. i) Do you have abilities to apply knowledge in the domain of Computer Science and Engineering for the benefit of our Nation?
    : ☑ Excellent ☐ Good ☐ Average ☐ Fair
14. i) Do you have enough confidence to succeed in competitive exams?
    : ☑ Excellent ☐ Good ☐ Average ☐ Fair

g) Your Positive/Negative Comments:
h) Your suggestions for the Improvement of the Institution:

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