



Established In 1998

CHRISTIAN COLLEGE OF ENGINEERING & TECHNOLOGY

Managed By St. Thomas Mission, Bhilai

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QLM 2.6.2

ATTAINMENT OF POS AND COS ARE EVALUATED.

Criterion 2

QIM 2.6.2 Attainment of POs and COs



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COURSE OUTCOMES OF BE COURSE (MECHANICAL COURSES)

Subject Code: 337354(37) Course Name: Mechanics of Solids – I

C204.1	Apply knowledge of mechanics of deformable body for understanding, formulating and solving engineering problems.
C204.2	Acquire knowledge and hands-on competence in applying the concepts mechanics of solid in the design and development of mechanical systems.
C204.3	Demonstrate creativeness in designing new systems components and processes in the field of engineering in general and mechanical engineering in particular.
C204.4	Identify, analysis, and solve mechanical engineering problems useful to the society.
C204.5	Work effectively with engineering and science teams as well as with multi disciplinary designs.

Subject Code: 337453(37) Course Name: Applied Thermodynamics

C214.1	Apply knowledge of classical thermodynamics for formulating and solving engineering problems.
C214.2	Acquire knowledge and hands-on competence in applying the concepts of thermal sciences in the design and development of mechanical systems.
C214.3	Demonstrate creativeness in designing new systems components and processes in the field of engineering in general and mechanical engineering in particular.
C214.4	Identify, analysis, and solve mechanical engineering problems useful to the society.
C214.5	Work effectively with engineering and science teams as well as with multidisciplinary designs.

Criterion 2

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Subject Code: 337551(37) Course Name: Machine Design I

C301.1	Apply knowledge of machine design for understanding, formulating and solving engineering problems.
C301.2	Acquire knowledge and hands-on competence in applying the concepts in the design and development of mechanical systems.
C301.3	Demonstrate creativeness in designing new systems components and processes in the field of engineering in general and mechanical engineering in particular.
C301.4	Identify, analyze, and solve mechanical engineering problems useful to the society.
C301.5	Work effectively with engineering and science teams as well as with multidisciplinary designs.

Subject Code: 337653 (37) Course Name: Internal Combustion Engines

C314.1	Demonstrate a basic understanding of engine design, function and performance.
C314.2	Acquire knowledge and hands-on competence in the design and development of mechanical systems.
C314.3	Work effectively with engineering and science teams as well as with multidisciplinary designs.
C314.4	Demonstrate an understanding of the relationships between the design of the internal combustion engine and environmental issues
C314.5	Work effectively with engineering and science teams as well as with multidisciplinary designs.

Subject Code: 337731 (37)**Course Name: Automobile Engg.**

C401.1	Graduates will gain a strong foundation in core automobile engineering, both in theoretical and applied concepts.
C401.2	Acquire knowledge and hands-on competence in the design and development of automobile.
C401.3	Graduates will demonstrate the ability to identify and solve automobile engineering maintenance problems.
C401.4	Identify, analysis, and solve mechanical engineering problems useful to the society.
C401.5	Work effectively with engineering and science teams as well as with multidisciplinary designs.

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Subject Code: 337831 (37)**Course Name: Robotics**

C411.1	Apply knowledge of robotics for understanding, formulating and solving engineering problems.
C411.2	Acquire knowledge and hands-on competence in applying the concepts in the design and development of robots.
C411.3	Demonstrate creativeness in designing and development of robotics.
C411.4	Identify, analyze and design of robots useful to the society.
C411.5	Work effectively with multidisciplinary robots.

**CO-PO MATRICES OF COURSES SELECTED IN ONE PER SEMESTER
FROM 3RD TO 8TH SEMESTER**

Note:**1. Enter correlation levels 1, 2 or 3 as defined below:****1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High), If there is no correlation, put “-”**

Table (a) - Mapping of CO & PO												
2015-19												
Program Outcomes (POs)												
Course Outcomes	Engineering knowledge	Problem analysis	Design/development of complex systems	Investigations of complex problems	Modern tool usage	The engineer and society	Environment and sustainability	Ethics	Individual and team work:	Communication	Project management and finance	Life-long learning
COs	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12

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C204.1	3	2	1	2	1	1	1	-	1	1	-	-
C204.2	1	1	-	-	2	-	-	-	-	1	-	-
C204.3	3	2	1	1	-	-	-	-	-	-	-	-
C204.4	2	-	1	-	-	1	-	1	-	-	-	-
C204.5	2	3	-	1	2	-	1	1	-	-	2	-
C204	2.2	2.0	1.0	1.3	1.7	1.0	1.0	1.0	1.0	1.0	2.0	-

C214.1	3	3	3	2	1	1	1	2	1	2	-	-
C214.2	1	2	-	-	2	-	-	-	-	1	-	-
C214.3	3	2	1	-	-	-	1	-	-	-	-	-
C214.4	3	-	1	-	-	1	-	1	1	-	-	-
C214.5	2	3	-	1	2	-	1	1	-	-	2	-
C214	2.4	2.5	1.0	1.5	1.7	1.0	1.0	1.3	1.0	1.5	2.0	-

C301.1	3	2	1	-	-	1	-	1	-	1	-	1
C301.2	2	3	2	1	2	-	1	1	-	-	1	-
C301.3	1	1	-	-	-	-	-	-	1	-	-	-
C301.4	2	2	1	-	-	1	1	-	-	-	1	-
C301	2.0	2.0	1.3	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

C314.1	3	1	-	2	-	1	-	1	-	-	-	-
C314.2	1	-	1	1	-	-	1	-	1	1	1	-
C314.3	1	1	-	-	-	1	-	-	-	1	-	-
C314.4	2	2	2	1	2	-	1	1	-	-	2	-
C314.5	2	2	1	-	-	1	1	-	-	-	1	-
C314	1.8	1.5	1.3	1.3	2.0	1.0	1.0	1.0	1.0	1.0	1.3	-

C401.1	3	2	1	-	-	2	-	1	-	1	-	-
C401.2	1	2	-	1	2	-	2	2	1	-	1	-
C401.3	2	1	1	-	1	1	1	-	-	-	1	-
C401.4	1	2	-	-	-	2	-	2	2	1	-	1
C401.5	2	1	-	1	-	-	1	1	-	-	-	-

Criterion 2

QIM 2.6.2 Attainment of POs and COs



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C401	1.8	1.6	1.0	1.0	1.5	1.5	1.5	1.5	1.0	1.0	1.0	-
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C411.1	3	3	3	2	1	-	-	-	-	-	-	-
C411.2	3	3	1	3	-	2	-	-	2	-	2	3
C411.3	3	2	2	2	2	2	1	-	2	-	2	3
C411.4	3	3	2	1	1	3	1	-	3	-	2	3
C411.5	3	3	3	2	2	1	1	2	2	1	2	3
C411	3.00	2.80	2.20	2.00	1.50	2.00	1.00	2.00	2.25	1.00	2.00	3.00

Table 3.1.2 (b) - Mapping of CO & PSO

C204.1	2	2
C204.2	2	1
C204.3	1	1
C204.4	-	1
C204.5	3	-
C204	2.0	1.3
C214.1	3	2
C214.2	2	3
C214.3	1	1
C214.4	2	1
C214.5	3	-
C214	2.2	1.8
C301.1	1	2
C301.2	2	-
C301.3	1	3
C301.4	1	2
C301	1.3	2.3
C314.1	2	2
C314.2	1	1
C314.3	-	1
C314.4	1	-
C314.5	1	3
C314	1.3	1.8

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C401.1	1	1
C401.2	2	-
C401.3	1	2
C401.4	-	1
C401.5	3	1
C401	1.3	1.5
C411.1	3	3
C411.2	3	3
C411.3	3	3
C411.4	3	3
C411.5	1	2
C411	2.60	2.80

Program level Course-PO matrix of all courses 3rd sem to 8th sem year courses

Table PO - CO – Matrix

Course Outcomes	Program Outcomes (POs)	Engineering knowledge	Problem analysis	Design/development of solutions	Conduct investigations of	Modern tool usage	The engineer and society	Environment and sustainability	Ethics	Individual and team work:	Communication	Project management and finance	Life-long learning
		PO -1	PO -2	PO -3	PO -4	PO -5	PO -6	PO -7	PO -8	PO -9	PO-10	PO-11	PO-12
C104	Engineering Graphics	2.25	2.67	2.00	3.00	2.50	2.00	-	-	2.00	2.00	-	2.00
C108	Workshop Practice	2.75	2.75	2.25	2.75	2.50	2.00	1.75	2.25	2.00	2.00	1.25	2.25
C105	Fundamental of Mechanical Engineering (New)	3.00	2.50	2.00	2.75	2.25	2.00	1.75	1.50	2.25	2.00	1.50	1.75
C107	Mechanical Engineering (Lab)	2.75	2.75	2.75	2.75	2.50	1.00	1.75	2.25	2.25	2.25	2.75	2.00

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C201	Mathematics -III	3.00	2.00	2.00	2.00	2.20	2.20	1.20	3.00	2.00	3.00	2.00	2.20
C202	Machine Drawing	3.00	3.00	3.00	3.00	2.33	1.00	1.33	3.00	3.00	3.00	2.33	2.00
C203	Material Science & Metallurgy	3.00	2.00	3.00	2.33	2.00	2.33	1.33	2.67	2.50	2.50	2.67	2.33
C204	Mechanics of Solids-1	3.00	2.80	2.60	2.20	2.40	2.60	1.75	1.60	1.80	2.60	2.25	2.20
C205	Engineering Thermodynamics	2.60	3.00	2.50	2.60	2.00	2.20	2.20	2.80	2.40	2.50	3.00	3.00
C206	Mechanical Measurement and Metrology	2.75	2.75	2.75	2.75	2.50	1.75	3.00	2.50	2.25	1.75	1.25	1.00
C207	Machine Drawing Lab	2.50	1.75	2.75	2.00	2.75	1.75	2.25	2.50	1.50	2.00	1.75	1.50
C208	Material Testing Lab	2.00	2.00	2.00	2.75	2.33	3.00	2.75	2.75	2.50	2.25	1.25	1.00
C209	Engineering Thermodynamics Lab	2.25	2.00	2.67	2.50	2.75	2.00	1.50	1.75	2.25	1.25	1.25	1.50
C210	Materials Measurement Metrology Lab	2.75	2.00	2.00	2.25	2.00	2.00	2.00	2.33	2.50	3.00	2.33	2.00
C211	Value Education	2.00	1.80	2.20	1.80	2.20	2.00	2.00	2.00	2.20	2.00	1.80	1.80
C212	Fluid Mechanics	1.80	2.00	1.80	1.80	1.80	1.00	1.20	3.00	2.60	1.80	1.80	1.80
C213	Mechanics of Solids-2	2.60	3.00	2.60	2.60	3.00	1.00	1.00	2.25	2.60	1.00	2.00	3.00
C214	Applied Thermodynamics	3.00	2.17	2.33	2.17	1.67	2.25	2.25	1.67	1.50	2.33	2.50	2.83
C215	Kinematics of Machines	2.60	3.00	2.50	2.60	2.00	2.00	2.50	3.00	2.40	2.50	1.25	2.00
C216	Numerical Analysis & Computer Programming	2.60	3.00	2.50	2.60	2.00	1.00	2.25	2.40	2.20	1.80	2.00	2.00

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	ng (C & C++)												
C217	Manufacturing Science – I	2.75	3.00	2.33	2.67	2.67	2.33	2.50	2.33	2.00	2.50	2.67	2.50
C218	Fluid Mechanics Lab	2.50	2.00	2.25	2.50	2.50	2.75	2.75	2.50	3.00	1.33	1.50	2.00
C219	Computer Aided Drafting Lab	2.50	2.00	2.25	1.75	3.00	2.00	2.33	2.75	1.50	2.25	1.33	1.50
C220	KOM Lab	2.25	2.50	2.00	2.25	2.67	2.00	2.00	2.33	2.33	1.67	1.67	3.00
C221	NACP Lab	2.75	2.50	3.00	2.50	3.00	2.00	3.00	3.00	2.50	2.50	1.25	1.00
C222	Health, Hygiene & Yoga	2.00	1.80	1.80	1.80	1.80	1.80	2.00	2.00	1.80	1.80	1.80	1.80
C301	Machine Design I	3.00	2.75	2.80	1.75	3.00	-	-	-	2.67	-	-	1.60
C302	Turbo Machinery	2.75	2.75	2.25	2.50	2.33	2.25	2.50	1.25	2.25	1.75	1.25	1.50
C303	Dynamics of Machines	2.60	3.00	2.20	3.00	2.25	1.00	-	-	2.33	2.00	2.00	2.25
C304	Fluid Machinery	3.00	2.80	2.60	3.00	2.80	2.40	2.00	1.60	1.80	3.00	2.20	2.20
C305	Manufacturing Science - II	2.75	2.75	2.75	2.75	2.50	2.00	2.75	2.00	2.00	2.50	2.75	2.50
C306	Operation Research	2.60	2.40	2.80	2.20	2.00	2.20	2.00	2.75	2.33	2.00	2.50	1.80
C307	Machine Design Lab	3.00	2.00	2.25	2.25	3.00	2.25	2.25	2.50	2.25	2.25	1.75	2.00
C308	Manufacturing Science Lab	3.00	3.00	2.75	2.50	2.25	1.50	2.00	2.00	2.00	2.25	2.50	2.75
C309	Dom Lab	3.00	2.00	2.00	2.00	2.67	2.33	2.67	2.67	2.00	2.00	2.50	2.00
C310	Fluid Machinery Lab	3.00	2.25	2.00	2.50	2.00	2.00	2.00	2.67	2.00	2.33	2.00	2.00
C311	Personality Development	2.00	1.80	1.80	2.00	2.00	3.00	2.80	2.40	2.00	1.40	1.20	1.60

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C312	Machine Design 2	2.60	3.00	2.60	2.60	2.75	2.50	1.75	2.25	1.40	3.00	2.00	1.00
C313	Energy Systems	3.00	3.00	2.80	2.80	2.60	2.60	2.60	1.80	2.40	3.00	2.00	2.40
C314	Internal Combustion Engine	2.50	3.00	3.00	2.75	2.50	2.25	2.67	2.75	2.00	2.25	2.50	2.33
C315	Heat and Mass Transfer	2.60	2.80	2.60	2.20	2.00	2.20	2.25	1.00	2.40	2.25	2.50	1.75
C316	Production Management	2.80	2.75	2.75	2.50	2.50	1.80	2.00	2.75	2.20	2.50	2.33	1.33
C317	Power Plant Engineering	2.40	1.50	1.50	1.20	1.00	1.50	1.50	1.00	-	-	1.20	1.00
C318	Machine Design 2 Lab	3.00	2.25	3.00	3.00	3.00	2.00	2.00	2.00	2.33	1.67	2.00	1.00
C319	Internal Combustion Engine Lab	2.60	3.00	3.00	2.60	2.33	2.00	2.67	2.75	2.20	2.40	1.50	1.00
C320	Production Management Lab	2.67	2.00	2.00	2.00	2.75	2.00	2.25	2.67	2.25	2.00	2.25	2.00
C321	Heat and Mass Transfer Lab	3.00	2.00	2.00	3.00	3.00	2.00	2.67	2.50	2.25	2.33	2.00	1.33
C322	Managerial Skills	2.67	1.40	2.25	2.00	2.33	2.00	2.00	2.25	1.80	2.00	2.00	1.20
C401	Automobile Engineering	3.00	2.00	1.67	1.67	1.50	1.00	2.00	-	-	2.00	1.33	1.00
C402	Refrigeration & Air Conditioning	2.60	2.75	2.75	2.25	2.00	1.00	1.67	2.33	2.25	2.00	1.33	3.00
C403	Computer Aided Design and Manufacturing	3.00	2.80	2.60	2.80	3.00	1.80	2.00	2.50	1.40	2.40	1.50	3.00
C404	Machine Tool Technology	2.75	2.25	2.75	2.00	2.33	2.00	2.00	2.00	1.50	2.00	2.00	1.00

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C405	Product Design and Development	2.67	2.33	3.00	2.33	2.00	2.50	2.00	2.33	2.00	2.33	2.33	1.00
C406	Automobile Engineering Lab	3.00	2.00	2.00	1.50	1.50	1.00	2.00	-	1.00	2.00	1.50	1.00
C407	RAC Lab	3.00	2.00	2.00	3.00	2.00	2.00	2.00	1.00	1.00	1.00	1.50	1.00
C408	CAD CAM Lab	3.00	2.00	2.25	2.00	3.00	2.00	3.00	2.00	1.00	1.50	2.00	3.00
C409	Minor Project	3.00	2.00	3.00	2.00	3.00	1.00	2.00	1.80	2.40	1.40	1.40	1.80
C410	Innovative and Entrepreneurial Skills	2.00	2.00	2.00	2.00	2.25	1.00	2.00	2.00	1.25	2.00	2.00	2.00
C411	Robotics	3.00	2.80	2.20	2.00	1.50	2.00	1.00	2.00	2.25	1.00	2.00	3.00
C412	Finite Element Methods	2.00	2.75	2.25	2.25	2.00	2.00	2.00	3.00	1.00	1.00	3.00	3.00
C413	Industrial Engineering & Management	2.40	2.50	2.00	2.00	2.00	2.00	1.80	2.00	2.00	1.80	2.00	2.50
C414	Environmental Pollution & Control	2.60	2.20	2.00	2.00	1.00	1.20	2.00	1.40	1.00	1.00	1.00	1.40
C415	Value Engineering	2.75	2.50	2.30	2.00	2.00	2.00	2.00	2.00	1.00	2.00	2.00	1.25
C416	Robotics Lab	2.75	2.50	2.67	2.67	2.25	2.00	2.00	2.00	2.00	2.00	1.75	1.00
C417	Finite Element Methods Lab	2.75	2.00	2.00	2.25	2.00	2.00	2.67	2.50	1.00	1.33	1.33	1.00
C418	Industrial Engineering & Management Lab	2.75	2.00	2.00	2.50	2.75	1.75	2.00	2.00	2.00	1.50	1.00	1.00
C419	Major Project	3.00	2.75	3.00	3.00	2.50	1.75	3.00	2.00	2.00	1.00	2.25	1.00

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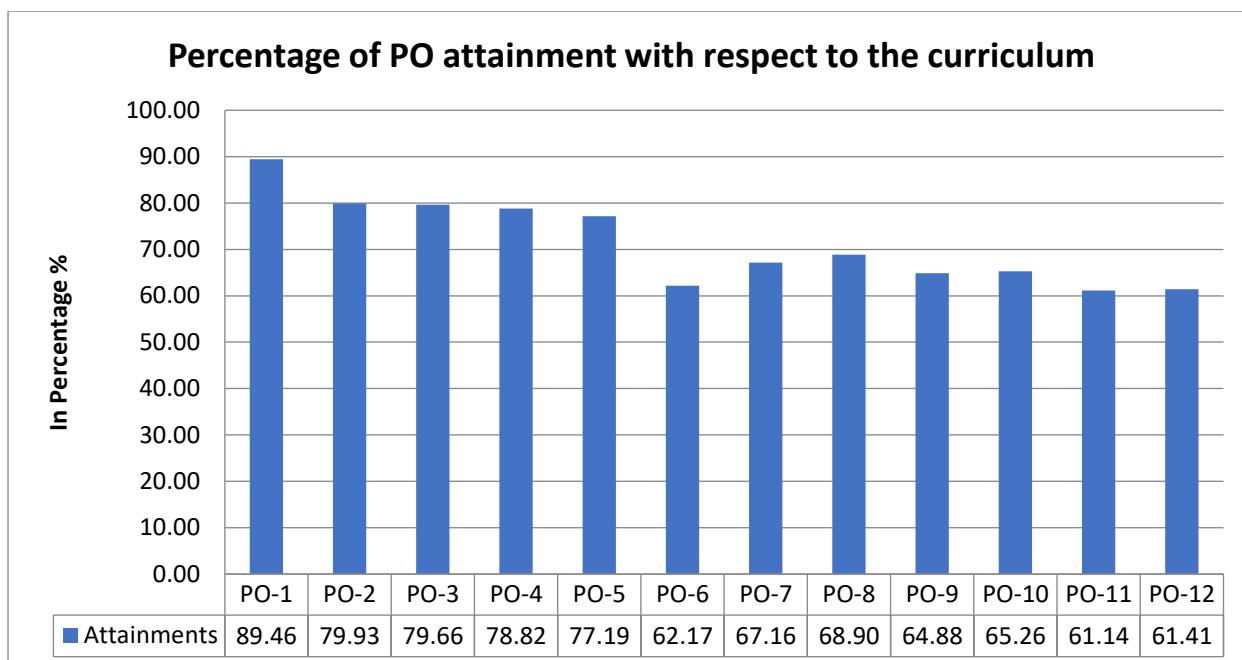
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C420	Report Writing & Seminar	3.0	2.0	2.5	2.6	2.0	1.0	2.2	2.0	1.6	1.40	1.40	1.80
		0	0	0	0	0	0	0	0	0			

Average of Pos	2.68	2.40	2.39	2.36	2.31	1.87	2.02	2.07	1.94	1.95	1.83	1.84
Maximum Marks	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Percentage of PO attainment	89.46	79.85	79.59	78.83	77.11	62.21	67.20	68.96	64.83	65.10	61.09	61.39



ATTAINMENT OF COURSE OUTCOMES

Criterion 2

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Data collection process includes:

End semester exams: Semester wise examinations are planned and taken by the university at the end of each semester.

Class Test: Examinations are planned and announced before the commencement of the semester classes in terms of academic calendar, evaluated answer scripts are returned within five days and week students are monitored and mentored.

Teacher's Assessment: On the basis of attendance, assignments, marks for TA is allotted to the student at the end of each semester.

These assessments are carried out periodically and hence allow the faculty members to monitor and provide attention to the students **who may not be attaining the PO's to the required level**. This ensures that all students attain the minimum level of each programme outcomes

Program shall have set Course Outcome attainment levels for all courses.

(The attainment levels shall be set considering average performance levels in the university examination or any higher value set as target for assessment years attainment level is to be measured in terms of student performance in internal assessments with respect to the course outcomes of a course in addition to the performance in the University examination)

Measuring Course Outcomes attained through University Examinations

Attainment level will be **3, if**

If more than 80% of students are scoring pass marks in the end semester examinations.

Pass marks, for CSVTU, it is 28 marks, out of 80.

Attainment level will be **2, if**

If more than 60%, but less than 80 % of students are scoring pass marks in the end semester examinations.

Pass marks, for CSVTU, it is 28 marks, out of 80.

Attainment level will be **1, if**

If less than 40% of students are scoring pass marks in the end semester examinations.

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QIM 2.6.2 Attainment of POs and COs



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Pass marks, for CSVTU, it is 28 marks, out of 80.

Measuring CO attainment through Internal Assessments:

We have selected Class Tests marks and Teacher's Assessment marks for the evaluation of Internal Assessment.

Marks for CT & TA is 20 each.

Total sum is 40

Average pass marks, we have selected for the present year calculation is 60 % of 40 i.e. 24

Attainment level will be **3, if**

If more than 80% of students are scoring 24 marks out of 40

Attainment level will be **2, if**

If more than 60%, but less than 80 % of students are scoring 24 marks out of 40

Attainment level will be **1, if**

If less than 40% of students are scoring 24 marks out of 40

If targets are not achieved the program should put in place as action plan to attain the target in subsequent years.

Similar targets and achievement are to be stated for the other midterm tests/ internal assessment instruments

Course Outcome attainment:

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QIM 2.6.2 Attainment of POs and COs



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Assuming 80% weightage to university examination and 20% weightage to Internal assessment, the attainment calculations will be (80% of University level) + (20% of Internal level)

Direct Attainment 2018-19				
CO	Subject Names	CO ATTAINMENT (ESE)	CO ATTAINMENT (CT + TA)	CO ATTAINMENT
C10 4	Engineering Graphics	3	2	2.8
C10 8	Workshop Practice	3	3	3
C10 5	Fundamental of Mechanical Engineering (New)	3	2	2.8
C10 7	Mechanical Engineering (Lab)	3	3	3
C20 1	Mathematics -III	3	2	2.8
C20 2	Machine Drawing	3	3	3
C20 3	Material Science & Metallurgy	3	2	2.8
C20 4	Mechanics of Solids-1	3	2	2.8
C20 5	Engineering Thermodynamics	3	2	2.8
C20 6	Mechanical Measurement and Metrology	3	2	2.8
C20 7	Machine Drawing Lab	3	3	3
C20 8	Material Testing Lab	3	3	3
C20 9	Engineering Thermodynamics Lab	3	3	3
C21 0	Materials Measurement Metrology Lab	3	3	3
C21 1	Value Education	-	3	0.6
C21 2	Fluid Mechanics	3	3	3
C21 3	Mechanics of Solids-2	3	2	2.8
C21 4	Applied Thermodynamics	2	2	2
C21	Kinematics of Machines	2	2	2

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QIM 2.6.2 Attainment of POs and COs



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5				
C21 6	Numerical Analysis & Computer Programming (C & C++)	3	3	3
C21 7	Manufacturing Science – I	3	2	2.8
C21 8	Fluid Mechanics Lab	3	3	3
C21 9	Computer Aided Drafting Lab	3	3	3
C22 0	KOM Lab	3	3	3
C22 1	NACP Lab	3	3	3
C22 2	Health, Hygiene & Yoga	-	3	0.6
C30 1	Machine Design I	3	3	3
C30 2	Turbo Machinery	3	3	3
C30 3	Dynamics of Machines	3	2	2.8
C30 4	Fluid Machinery	3	3	3
C30 5	Manufacturing Science - II	3	2	2.8
C30 6	Operation Research	3	3	3
C30 7	Machine Design Lab	3	3	3
C30 8	Manufacturing Science Lab	3	3	3
C30 9	Dom Lab	3	3	3
C31 0	Fluid Machinery Lab	3	3	3
C31 1	Personality Development	-	3	0.6
C31 2	Machine Design II	3	2	2.8
C31 3	Energy Systems	3	3	3
C31 4	Internal Combustion Engine	2	2	2
C31 5	Heat and Mass Transfer	2	2	2
C31 6	Production Management	2	2	2

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QIM 2.6.2 Attainment of POs and COs



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C317	Power Plant Engineering	2	3	2.2
C318	Machine Design II Lab	3	3	3
C319	Internal Combustion Engine Lab	3	3	3
C320	Production Management Lab	3	3	3
C321	Heat and Mass Transfer Lab	3	3	3
C322	Managerial Skills	-	3	0.6
C401	Automobile engineering	3	3	3
C402	Refrigeration & Air Conditioning	3	2	2.8
C403	Computer aided design and manufacturing	3	3	3
C404	Machine Tool Technology	3	3	3
C405	Product Design and Development	3	3	3
C406	Automobile engineering lab	3	3	3
C407	RAC Lab	3	3	3
C408	CAD CAM lab	3	3	3
C409	Minor project	3	3	3
C410	Innovative and entrepreneurial skills	-	3	0.6
C411	Robotics	3	3	3
C412	Finite Element Methods	3	3	3
C413	Industrial Engineering & Management	3	3	3
C414	Environmental pollution & control	3	3	3
C415	Value Engineering	3	3	3
C416	Robotics lab	3	3	3
C417	Finite Element Methods Lab	3	3	3
C41	Industrial Engineering & Management	3	3	3

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QIM 2.6.2 Attainment of POs and COs



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8	Lab			
C41 9	Major project	3	3	3
C42 0	Report writing & seminar	-	3	0.6

Direct Attainment 2019-20

CO	Subject Names	CO ATTAINMENT (ESE)	CO ATTAINMENT (CT + TA)	CO ATTAINMENT
C10 4	Engineering Graphics	3	3	3
C10 8	Workshop Practice	3	3	3
C10 5	Fundamental of Mechanical Engineering (New)	3	3	3
C10 7	Mechanical Engineering (Lab)	3	3	3
C20 1	Mathematics -III	3	3	3
C20 2	Machine Drawing	3	3	3
C20 3	Material Science & Metallurgy	3	3	3
C20 4	Mechanics of Solids-1	3	3	3
C20 5	Engineering Thermodynamics	3	2	2.8
C20 6	Mechanical Measurement and Metrology	3	2	2.8
C20 7	Machine Drawing Lab	3	3	3
C20 8	Material Testing Lab	3	3	3
C20 9	Engineering Thermodynamics Lab	3	3	3
C21 0	Materials Measurement Metrology Lab	3	3	3
C21 1	Value Education	-	3	0.6
C21 2	Fluid Mechanics	3	3	3
C21 3	Mechanics of Solids-2	3	3	3
C21 4	Applied Thermodynamics	2	2	2

Criterion 2**QIM 2.6.2 Attainment of POs and COs**



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C21 5	Kinematics of Machines	2	2	2
C21 6	Numerical Analysis & Computer Programming (C & C++)	2	3	2.2
C21 7	Manufacturing Science – I	3	3	3
C21 8	Fluid Mechanics Lab	3	3	3
C21 9	Computer Aided Drafting Lab	3	3	3
C22 0	KOM Lab	3	3	3
C22 1	NACP Lab	3	3	3
C22 2	Health, Hygiene & Yoga	-	3	0.6
C30 1	Machine Design I	3	2	2.8
C30 2	Turbo Machinery	3	3	3
C30 3	Dynamics of Machines	3	2	2.8
C30 4	Fluid Machinery	3	3	3
C30 5	Manufacturing Science - II	3	3	3
C30 6	Operation Research	3	3	3
C30 7	Machine Design Lab	3	3	3
C30 8	Manufacturing Science Lab	3	3	3
C30 9	Dom Lab	3	3	3
C31 0	Fluid Machinery Lab	3	3	3
C31 1	Personality Development	-	3	0.6
C31 2	Machine Design II	3	3	3
C31 3	Energy Systems	3	3	3
C31 4	Internal Combustion Engine	2	2	2
C31 5	Heat and Mass Transfer	3	2	2.8
C31	Production Management	2	2	2

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QIM 2.6.2 Attainment of POs and COs



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6				
C31 7	Power Plant Engineering	2	3	2.2
C31 8	Machine Design II Lab	3	3	3
C31 9	Internal Combustion Engine Lab	3	3	3
C32 0	Production Management Lab	3	2	2.8
C32 1	Heat and Mass Transfer Lab	3	3	3
C32 2	Managerial Skills	-	3	0.6
C40 1	Automobile engineering	3	3	3
C40 2	Refrigeration & Air Conditioning	3	3	3
C40 3	Computer aided design and manufacturing	3	3	3
C40 4	Machine Tool Technology	3	3	3
C40 5	Product Design and Development	3	3	3
C40 6	Automobile engineering lab	3	3	3
C40 7	RAC Lab	3	3	3
C40 8	CAD CAM lab	3	3	3
C40 9	Minor project	3	3	3
C41 0	Innovative and entrepreneurial skills	-	3	0.6
C41 1	Robotics	3	3	3
C41 2	Finite Element Methods	3	3	3
C41 3	Industrial Engineering & Management	3	3	3
C41 4	Environmental pollution & control	3	3	3
C41 5	Value Engineering	3	3	3
C41 6	Robotics lab	3	3	3
C41 7	Finite Element Methods Lab	3	3	3

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C41 8	Industrial Engineering & Management Lab	3	3	3
C41 9	Major project	3	3	3
C42 0	Report writing & seminar	-	3	0.6

Direct Attainment 2020-21

CO	Subject Names	CO ATTAINMENT (ESE)	CO ATTAINMENT (CT + TA)	CO ATTAINMENT
C10 4	Engineering Graphics	3	3	3
C10 8	Workshop Practice	3	3	3
C10 5	Fundamental of Mechanical Engineering (New)	3	3	3
C10 7	Mechanical Engineering (Lab)	3	3	3
C20 1	Mathematics -III	3	3	3
C20 2	Machine Drawing	3	2	2.8
C20 3	Material Science & Metallurgy	3	3	3
C20 4	Mechanics of Solids-1	3	2	2.8
C20 5	Engineering Thermodynamics	3	3	3
C20 6	Mechanical Measurement and Metrology	3	2	2.8
C20 7	Machine Drawing Lab	3	3	3
C20 8	Material Testing Lab	3	3	3
C20 9	Engineering Thermodynamics Lab	3	3	3
C21 0	Materials Measurement Metrology Lab	3	3	3
C21 1	Value Education	-	3	0.6
C21 2	Fluid Mechanics	3	3	3
C21 3	Mechanics of Solids-2	3	2	2.8
C21	Applied Thermodynamics	2	2	2

Criterion 2**QIM 2.6.2 Attainment of POs and COs**



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4				
C21 5	Kinematics of Machines	2	2	2
C21 6	Numerical Analysis & Computer Programming (C & C++)	3	2	2.8
C21 7	Manufacturing Science – I	3	3	3
C21 8	Fluid Mechanics Lab	3	3	3
C21 9	Computer Aided Drafting Lab	3	3	3
C22 0	KOM Lab	3	3	3
C22 1	NACP Lab	3	3	3
C22 2	Health, Hygiene & Yoga	-	3	0.6
C30 1	Machine Design I	3	2	2.8
C30 2	Turbo Machinery	3	3	3
C30 3	Dynamics of Machines	3	3	3
C30 4	Fluid Machinery	3	3	3
C30 5	Manufacturing Science - II	3	3	3
C30 6	Operation Research	3	3	3
C30 7	Machine Design Lab	3	3	3
C30 8	Manufacturing Science Lab	3	3	3
C30 9	Dom Lab	3	3	3
C31 0	Fluid Machinery Lab	3	3	3
C31 1	Personality Development	-	3	0.6
C31 2	Machine Design II	3	3	3
C31 3	Energy Systems	3	3	3
C31 4	Internal Combustion Engine	2	2	2
C31 5	Heat and Mass Transfer	3	3	3

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QIM 2.6.2 Attainment of POs and COs



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C31 6	Production Management	2	2	2
C31 7	Power Plant Engineering	2	3	2.2
C31 8	Machine Design II Lab	3	3	3
C31 9	Internal Combustion Engine Lab	3	3	3
C32 0	Production Management Lab	3	2	2.8
C32 1	Heat and Mass Transfer Lab	3	3	3
C32 2	Managerial Skills	-	3	0.6
C40 1	Automobile engineering	3	2	2.8
C40 2	Refrigeration & Air Conditioning	3	2	2.8
C40 3	Computer aided design and manufacturing	3	3	3
C40 4	Machine Tool Technology	3	3	3
C40 5	Product Design and Development	3	3	3
C40 6	Automobile engineering lab	3	3	3
C40 7	RAC Lab	3	3	3
C40 8	CAD CAM lab	3	3	3
C40 9	Minor project	3	3	3
C41 0	Innovative and entrepreneurial skills	-	3	0.6
C41 1	Robotics	3	3	3
C41 2	Finite Element Methods	3	3	3
C41 3	Industrial Engineering & Management	3	3	3
C41 4	Environmental pollution & control	3	3	3
C41 5	Value Engineering	3	3	3
C41 6	Robotics lab	3	3	3
C41	Finite Element Methods Lab	3	3	3

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7				
C41 8	Industrial Engineering & Management Lab	3	3	3
C41 9	Major project	3	2	2.8
C42 0	Report writing & seminar	-	3	0.6

Attainment of program Outcomes and Program Specific Outcomes

(a) List & Description of assessment processes:

Assessment Tools	Direct/Indirect Assessment	Remark
End Semester Exam	Direct	Conducted by the University during each semester for every course.
Class Tests	Direct	Two number of Class tests are given during each semester for every course.
Oral Exams/VivaVoce	Direct	Viva Voce conducted during lab sessions. End semester course viva is also used to measure the same.
Project Evaluation	Direct	Project Evaluation conducted among the students towards the end of their final year.
Teachers Assessment (TA)		It is collected from the faculty at the end of each sem. Mode of evaluation are Internal Theory & Practical Exams, Assignments, Seminars.
Alumni Survey	Indirect	Alumni Survey conducted among alumni at the

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		end of each academic year
Employer Survey	Indirect	Employer Survey conducted among employers both as formal and informal mode of communication
Graduating Student Exit Survey	Indirect	Student Exit Survey conducted among the graduates
Course Exit Survey	Indirect	It is collected from the students, at the end of every semester

The PO attainment level will be 80% of direct assessment + 20 % of indirect assessment.

Direct assessment:

- End Semester Exam = 80%

Internal assessment has the 20 %

Indirect assessment:

- Students Exit Survey =10%
- Course End Survey= 5%
- Alumini Survey=5%

Program shall set program Outcome attainment levels for all Pos and PSOs.

(The attainment levels by direct (student performance) and indirect(surveys) are to be presented through Program level course - PO and PSO matrix as indicated).

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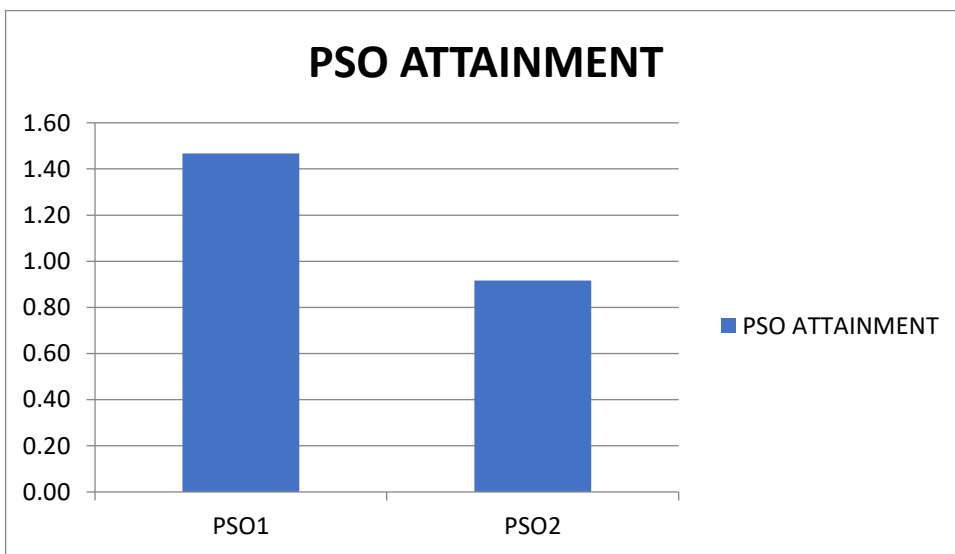
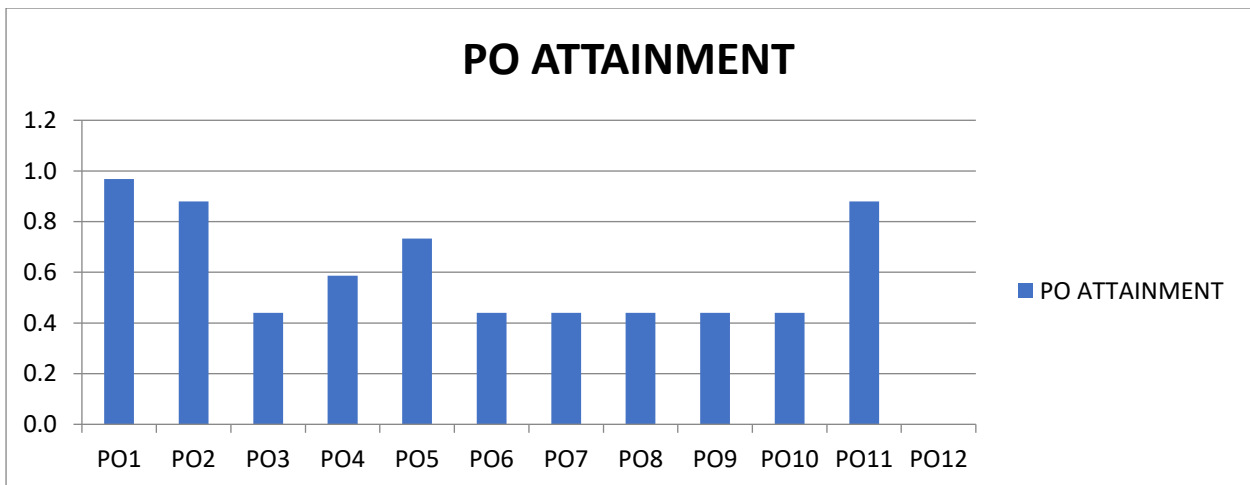
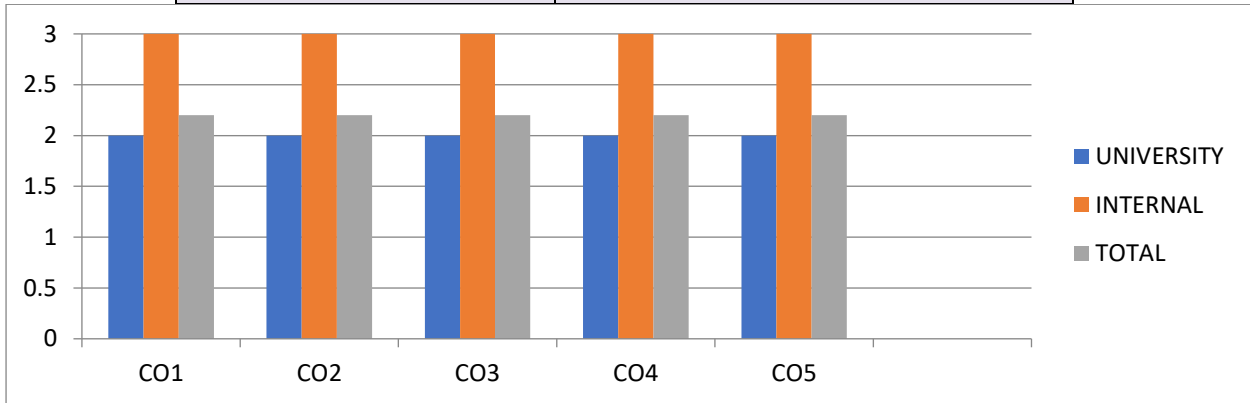
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Subject Name:	Mechanics of Solids – I
Paper code :	C - 204
Assessment Year :	2017-18
Semester	3
Total number of students :	84



Subject Name:	Mechanics of Solids – I
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Criterion 2

QIM 2.6.2 Attainment of POs and COs



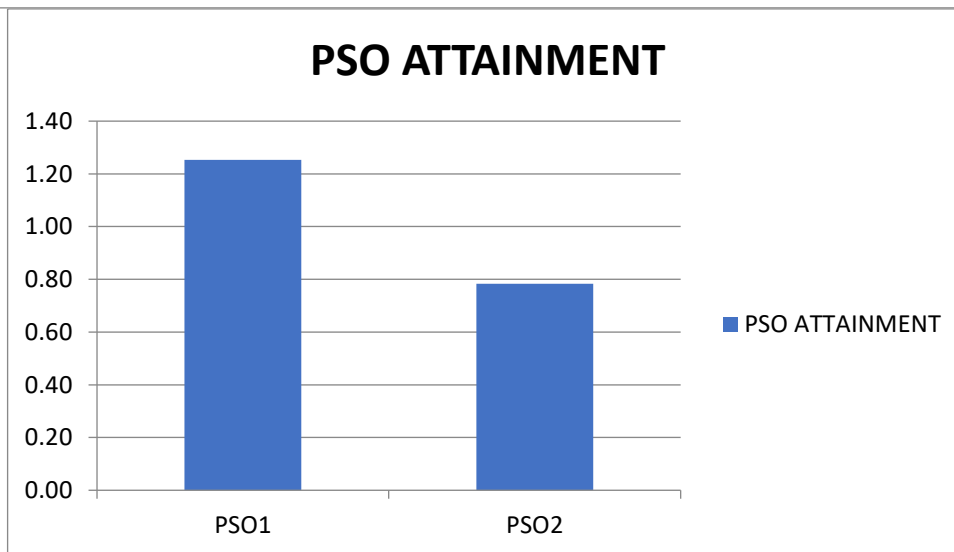
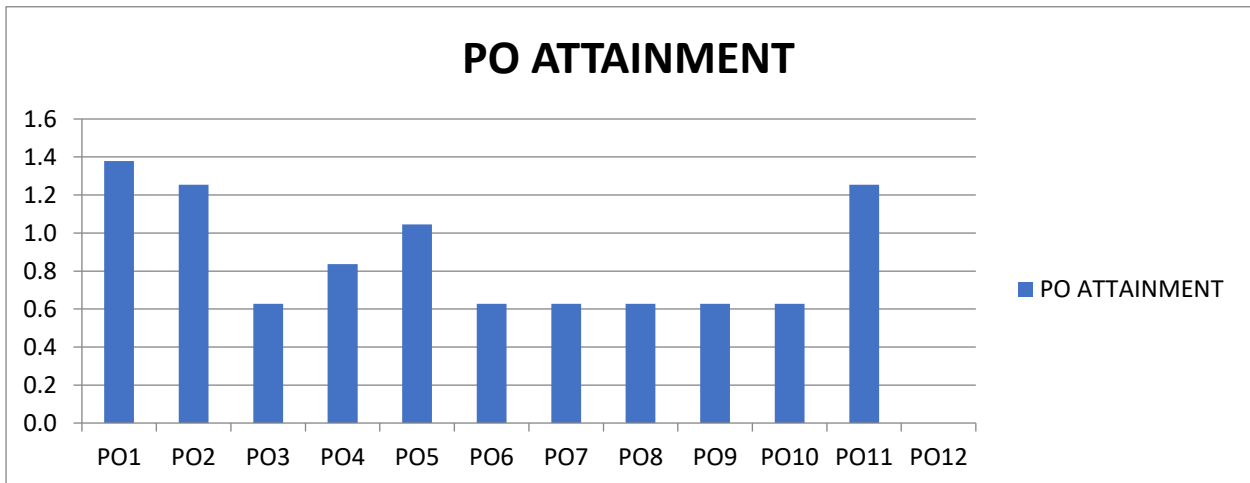
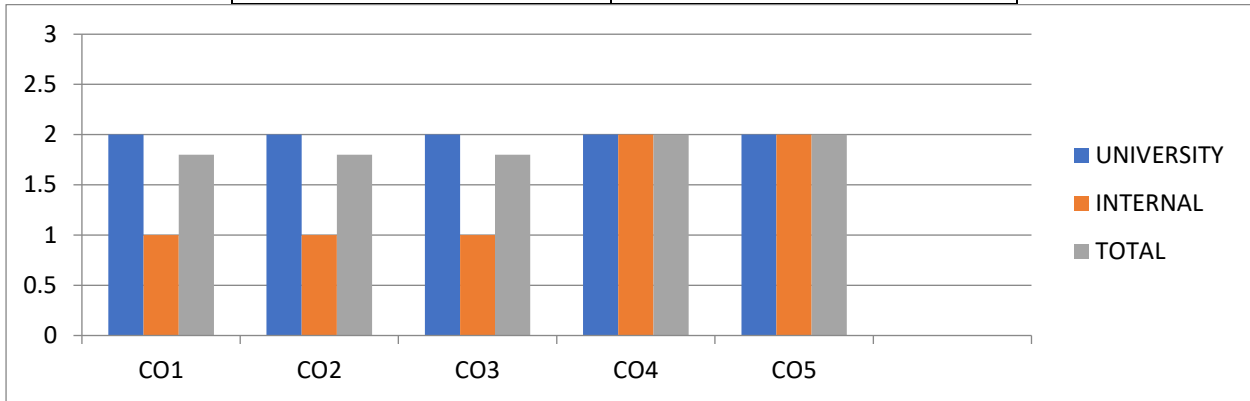
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Paper code :	C - 204
Assessment Year :	2019-20
Semester	3
Total number of students :	121



Subject Name:	MOS 1
Paper code :	C - 204

Criterion 2

QIM 2.6.2 Attainment of POs and COs



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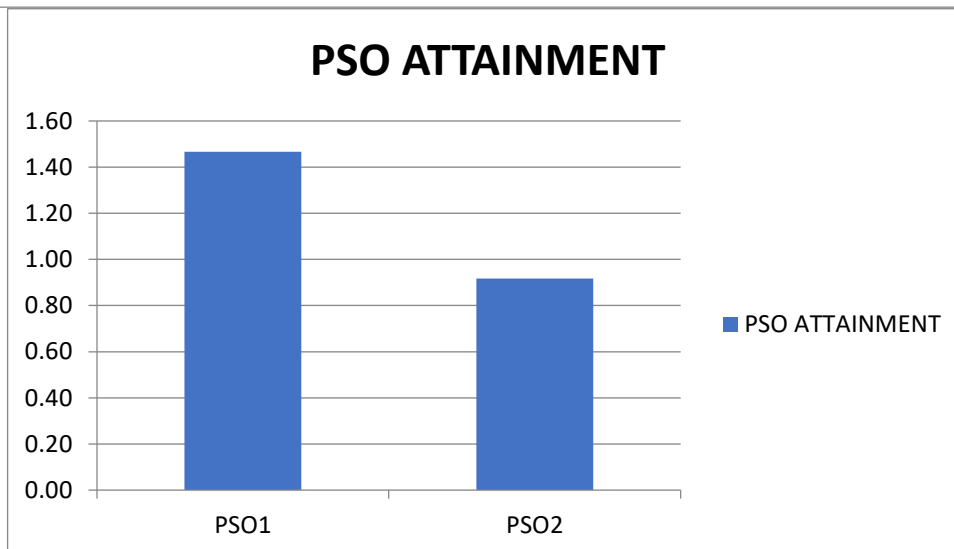
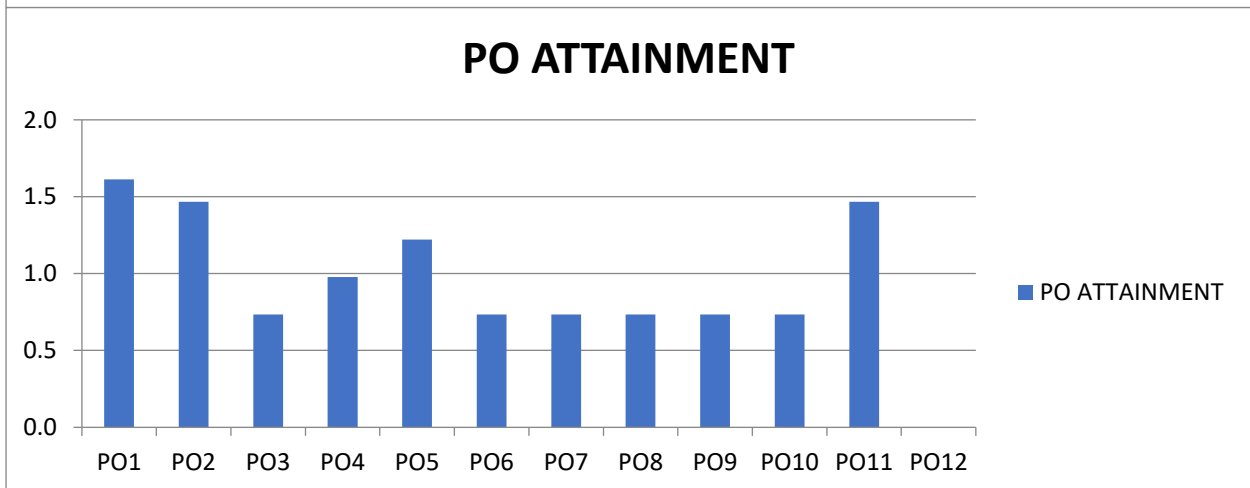
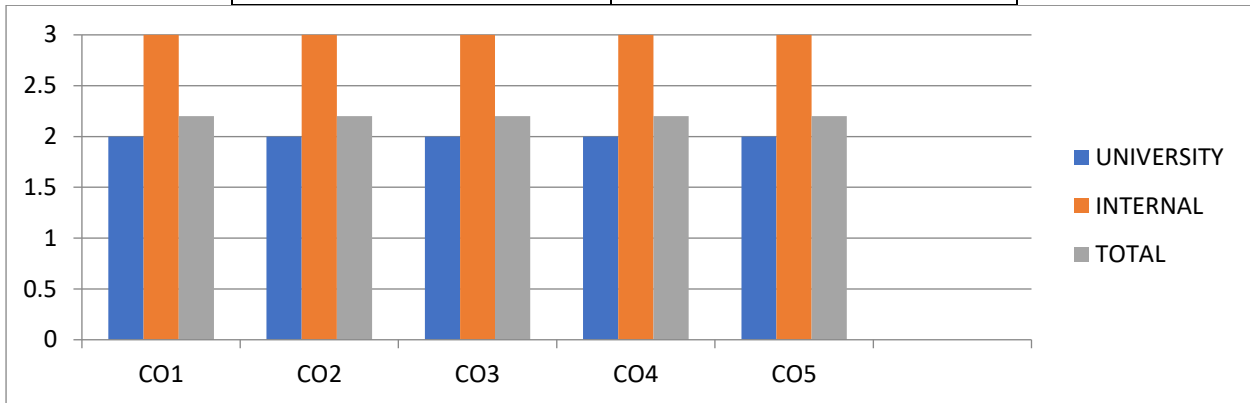
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Assessment Year :	2020-21
Semester	3
Total number of students :	125



Subject Name:	Applied Thermodynamics
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Criterion 2

QIM 2.6.2 Attainment of POs and COs



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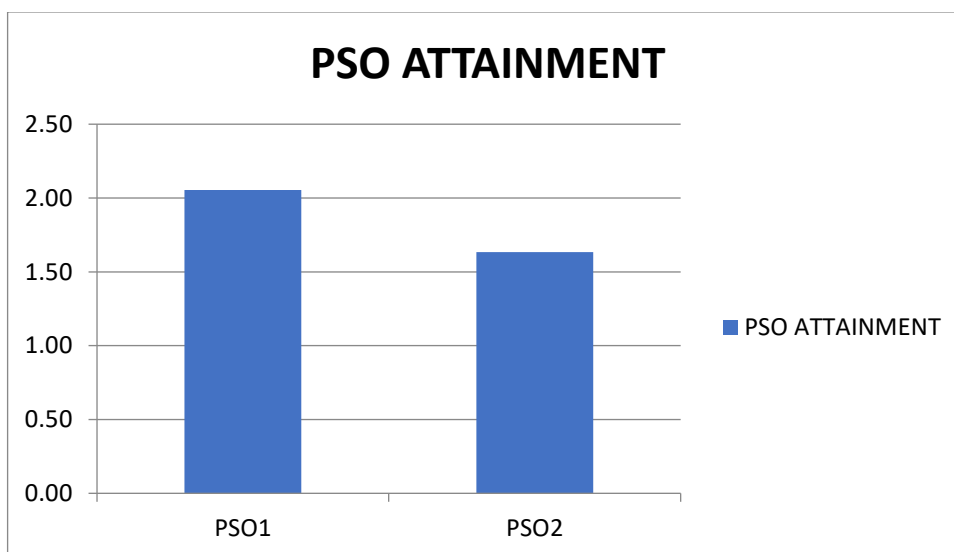
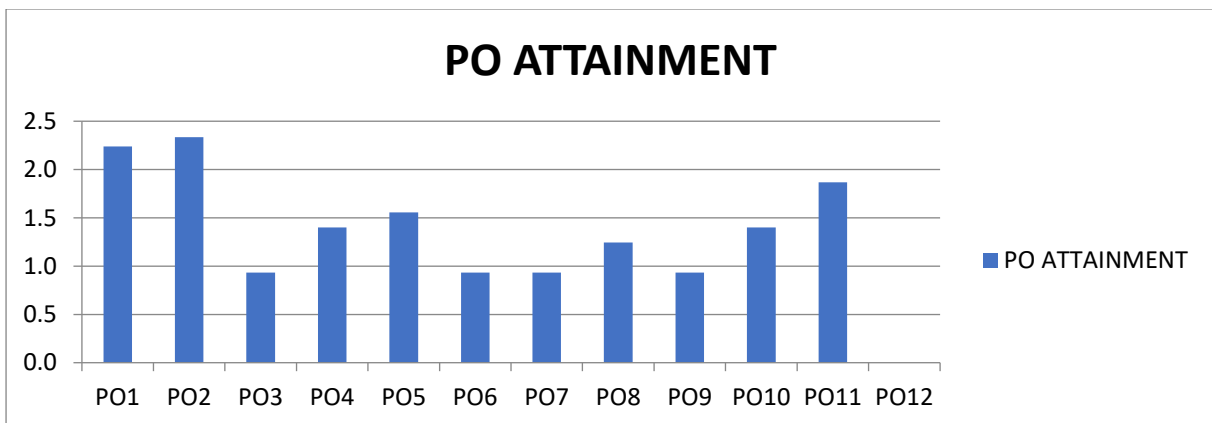
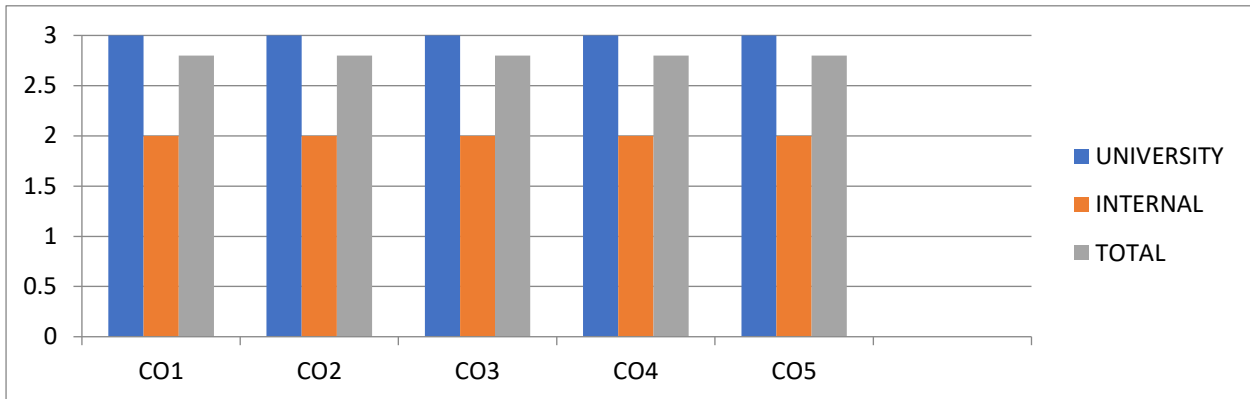
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If You Aim High, We Provide The Means

Paper code :	C - 214
Assessment Year :	2020-21
Semester	4
Total number of students :	84



Subject Name:	Applied Thermodynamics
Paper code :	C - 214

Criterion 2

QIM 2.6.2 Attainment of POs and COs



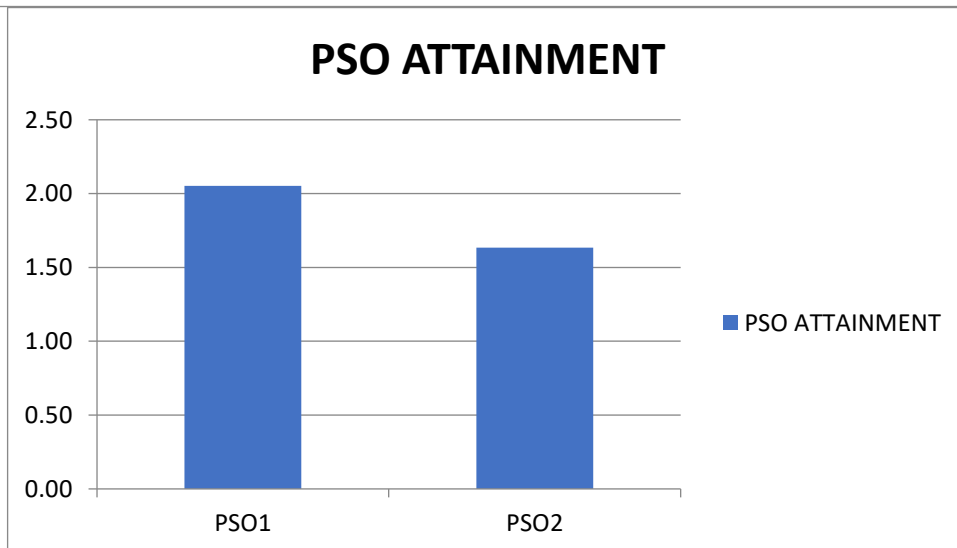
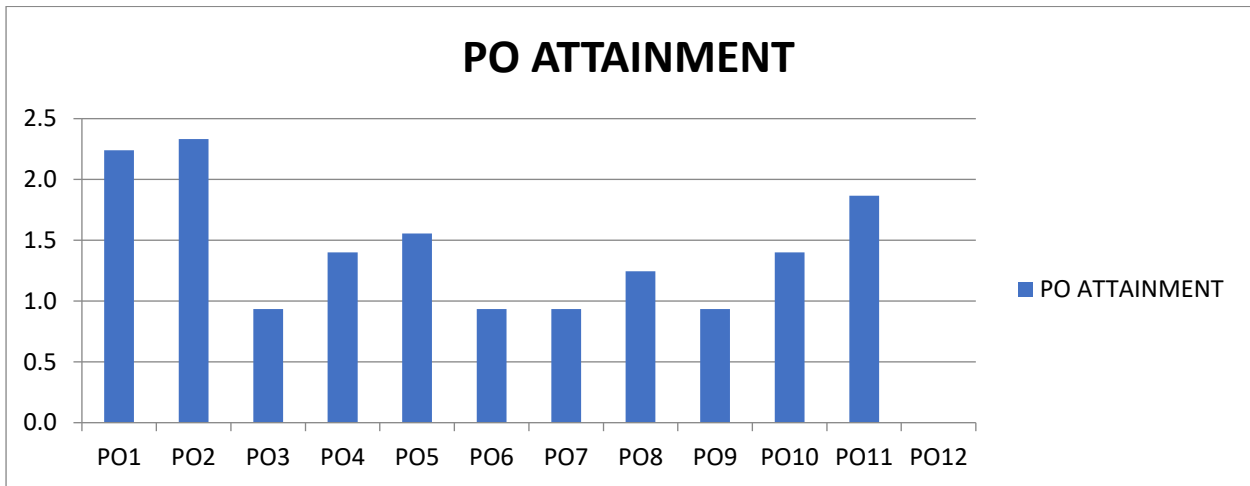
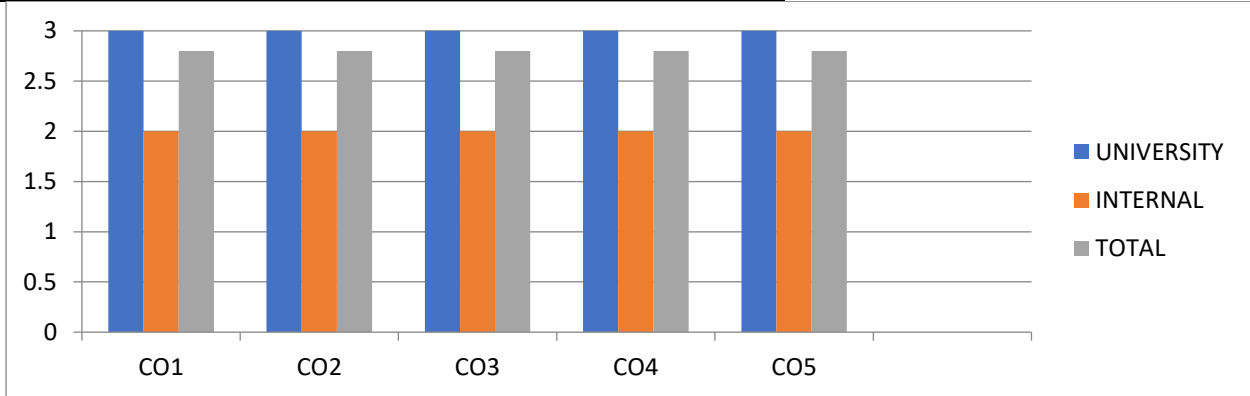
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Assessment Year :	2019-20
Semester	4
Total number of students :	121



Subject Name:	ATD
Paper code :	C - 214

Criterion 2

QIM 2.6.2 Attainment of POs and COs



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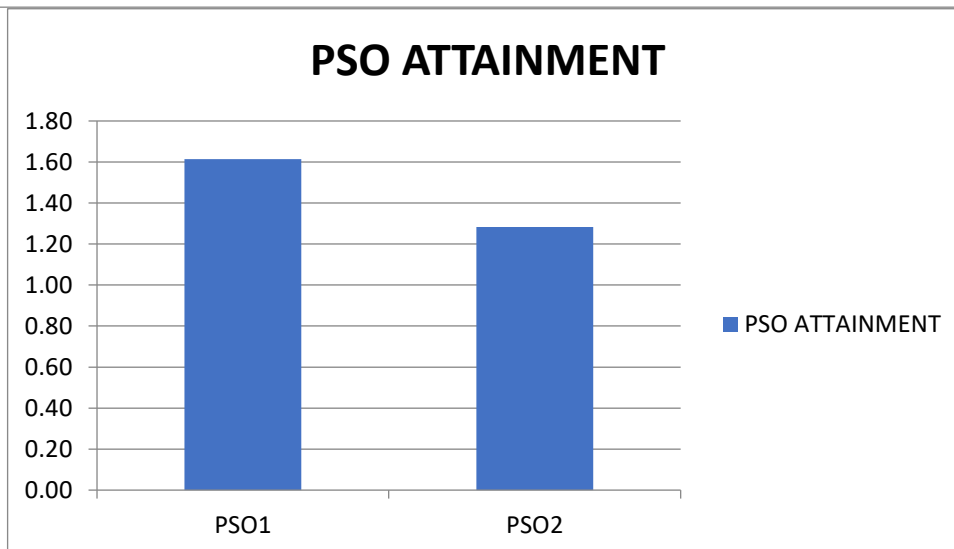
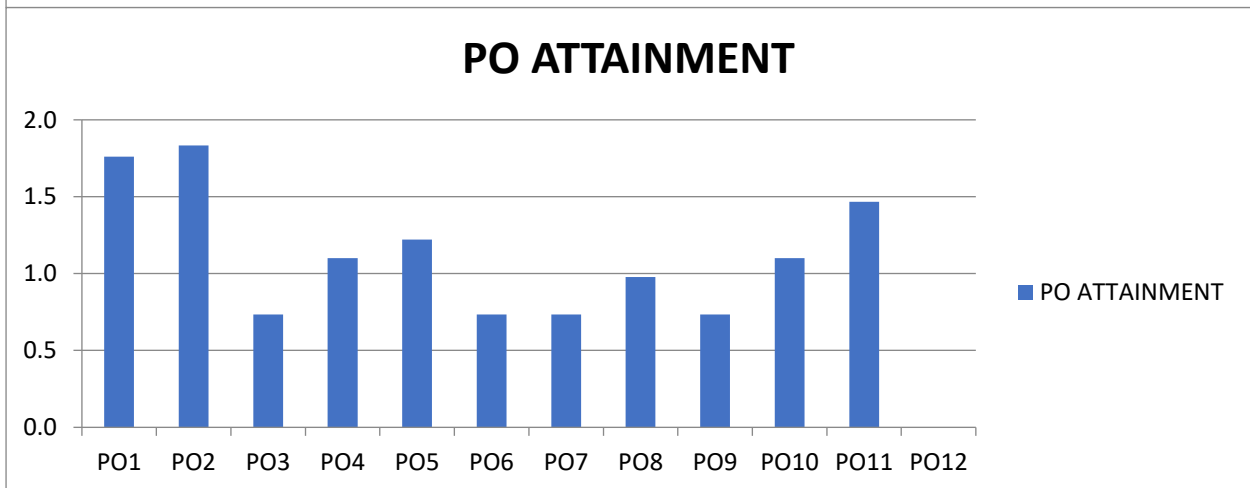
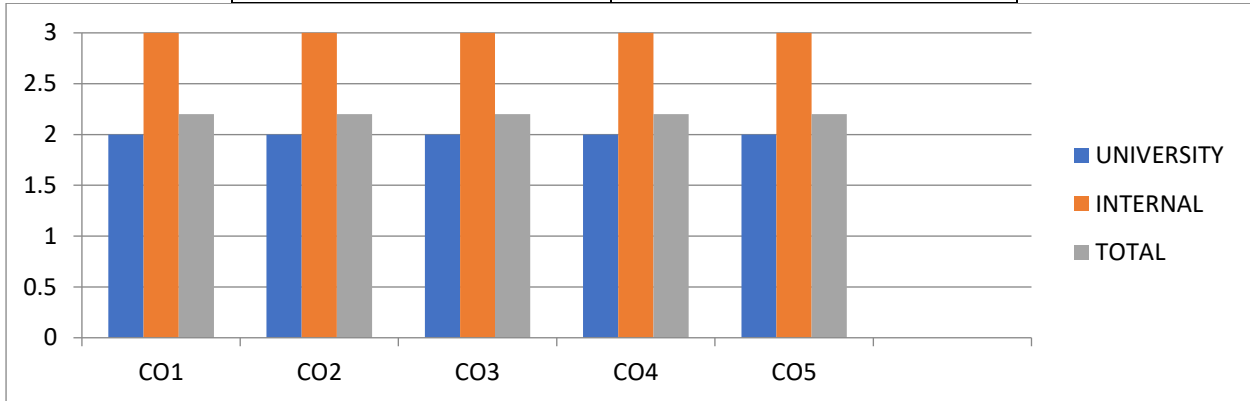
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Assessment Year :	2018-19
Semester	4
Total number of students :	125



Paper code :	C - 301 (MD1)
Assessment Year :	2020-21

Criterion 2

QIM 2.6.2 Attainment of POs and COs



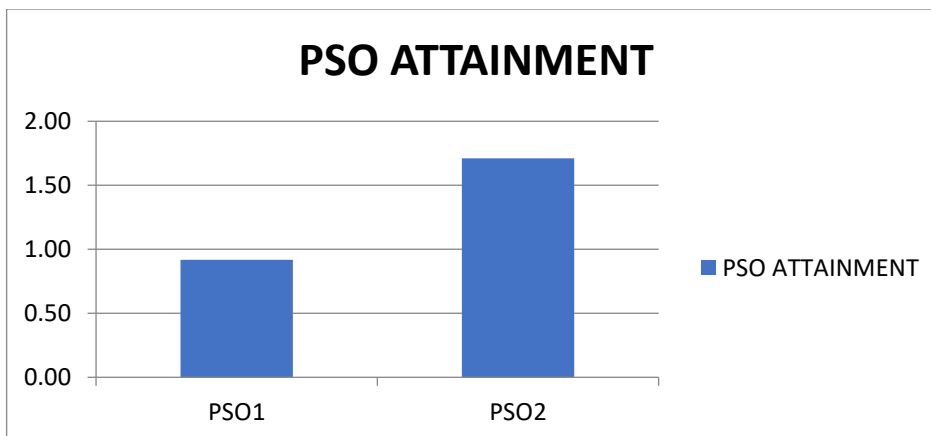
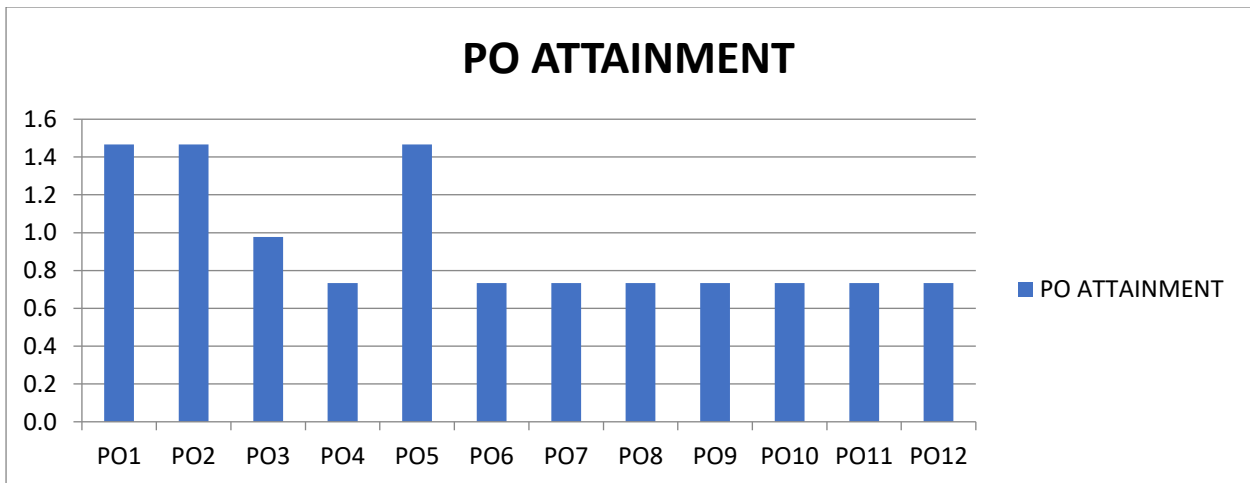
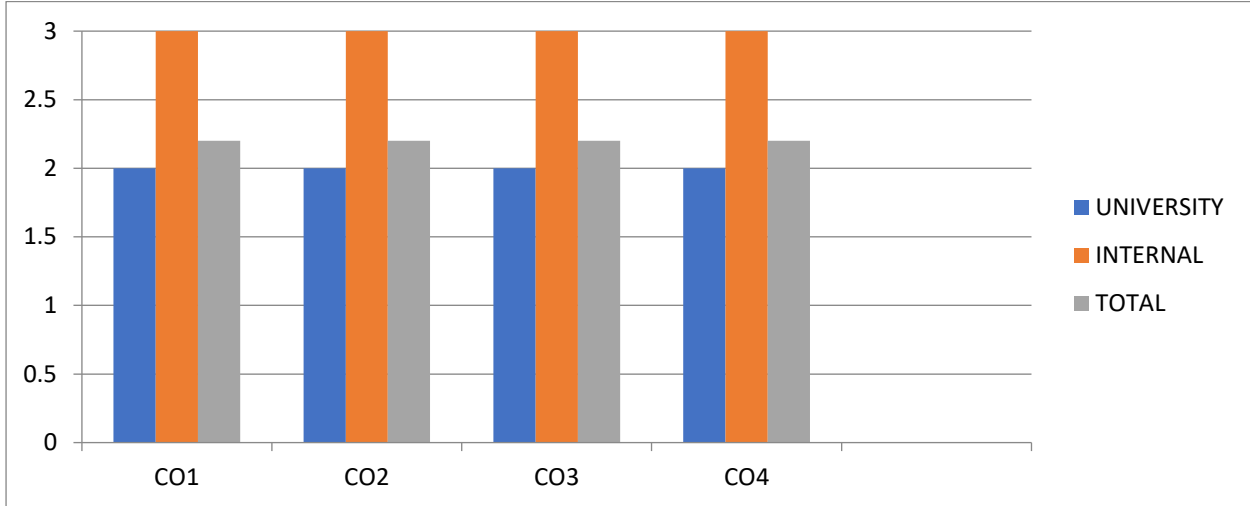
Established In 1998

Managed By St. Thomas Mission, Bhilai

Approved by AICTE and Affiliated to CSVTU, Bhilai

If You Aim High, We Provide The Means

Semester	5
Total number of students :	122



Paper code :	C - 301
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Criterion 2

QIM 2.6.2 Attainment of POs and COs



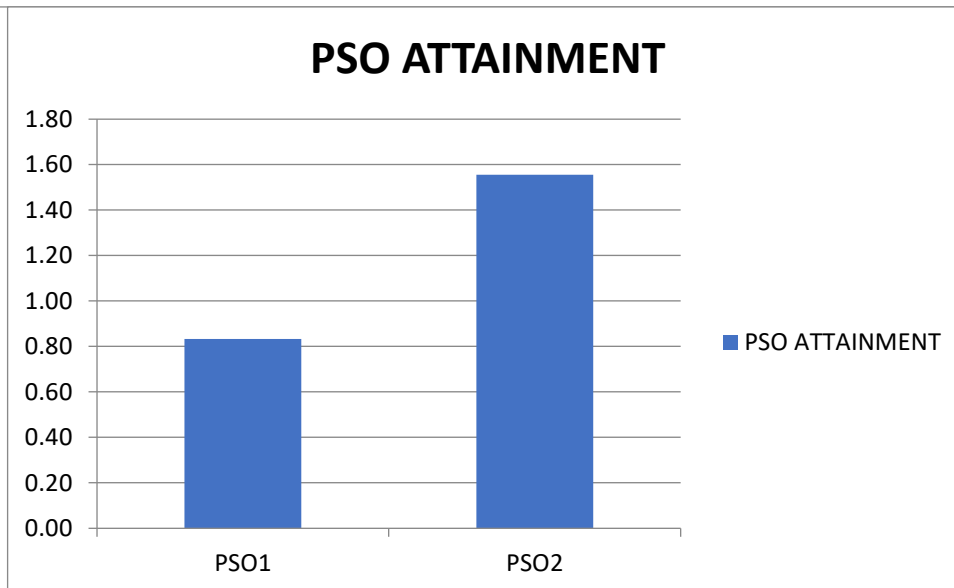
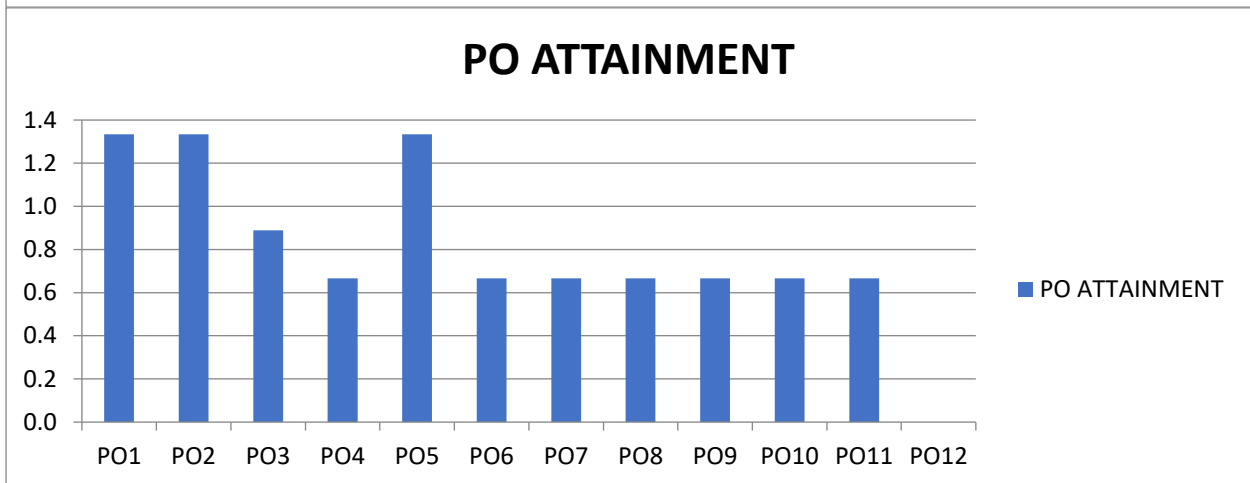
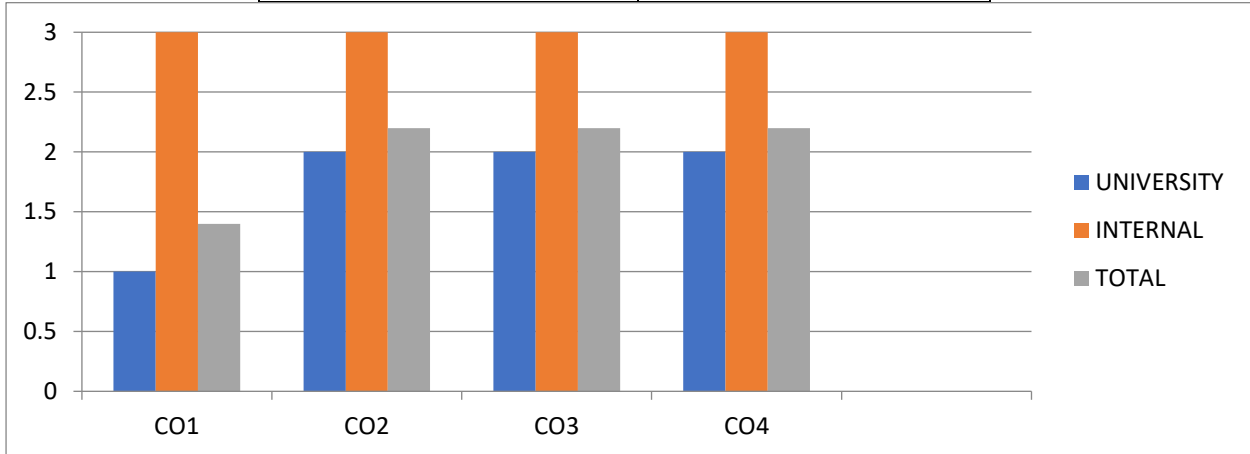
Established In 1998

Managed By St. Thomas Mission, Bhilai

Approved by AICTE and Affiliated to CSVTU, Bhilai

If You Aim High, We Provide The Means

Assessment Year :	2019-20
Semester	5
Total number of students :	124



Paper code :	C - 301
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Criterion 2

QIM 2.6.2 Attainment of POs and COs



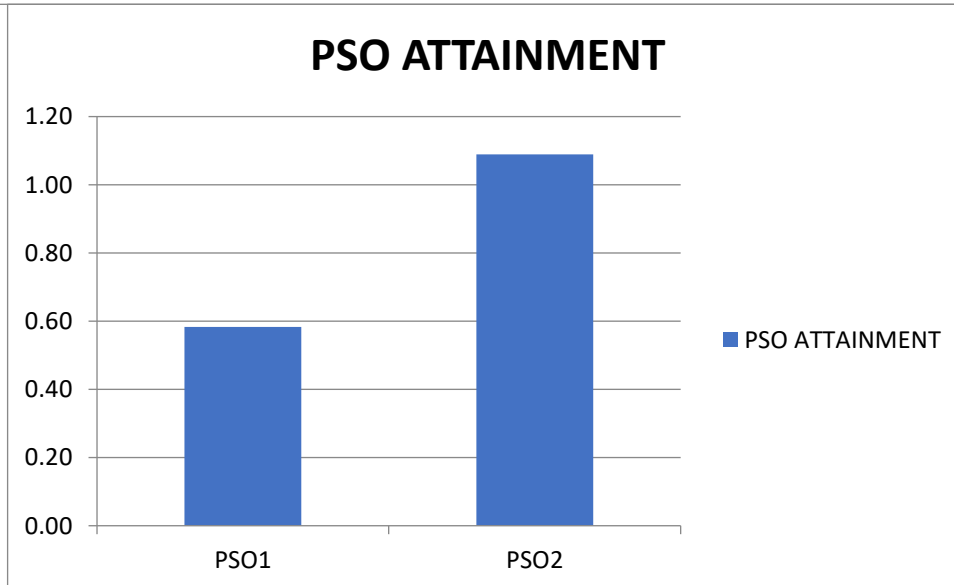
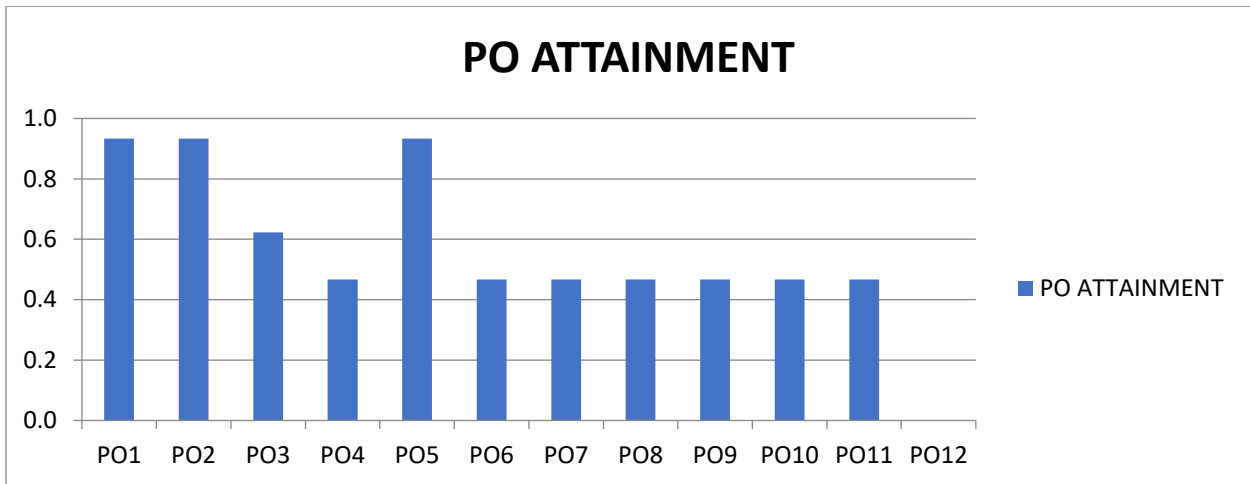
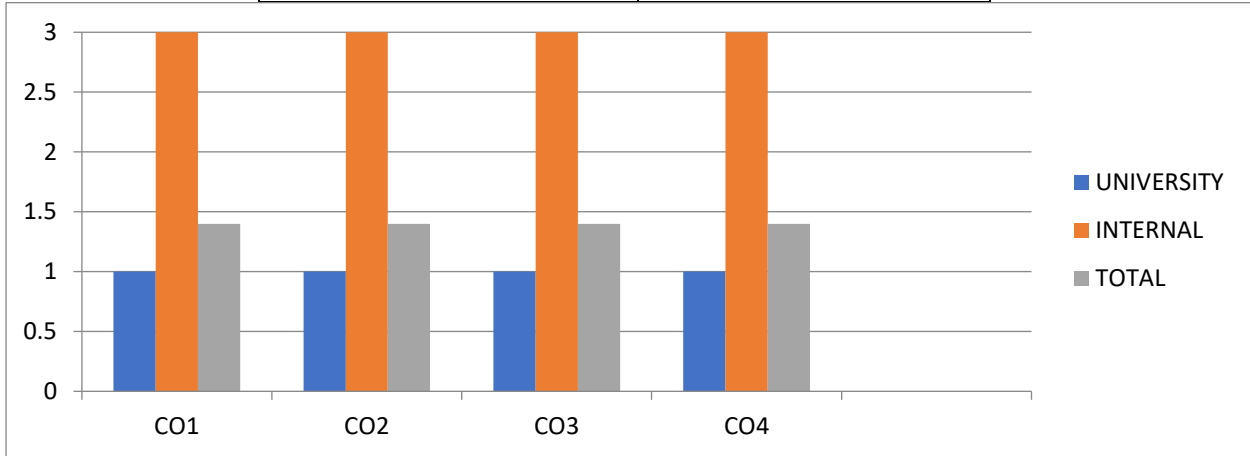
Established In 1998

Managed By St. Thomas Mission, Bhilai

Approved by AICTE and Affiliated to CSVTU, Bhilai

If You Aim High, We Provide The Means

Assessment Year :	2019-20
Semester	5
Total number of students :	118



Criterion 2

QIM 2.6.2 Attainment of POs and COs



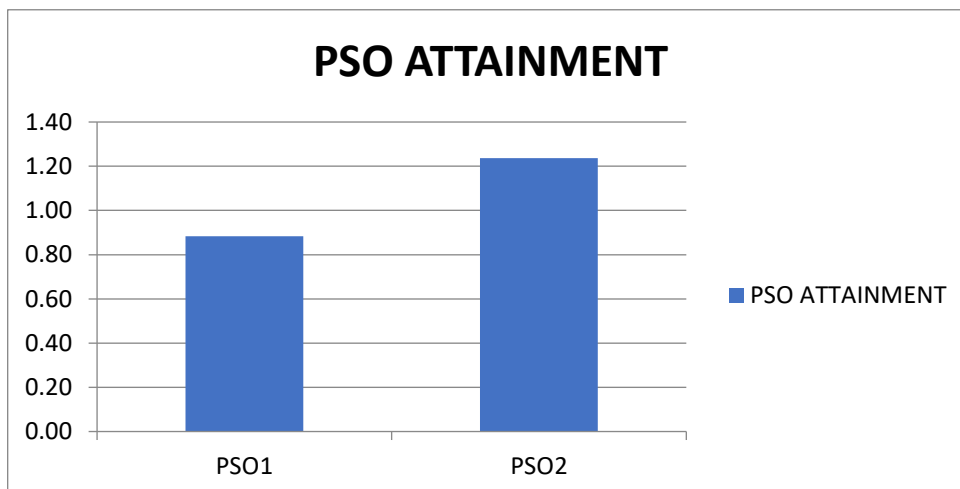
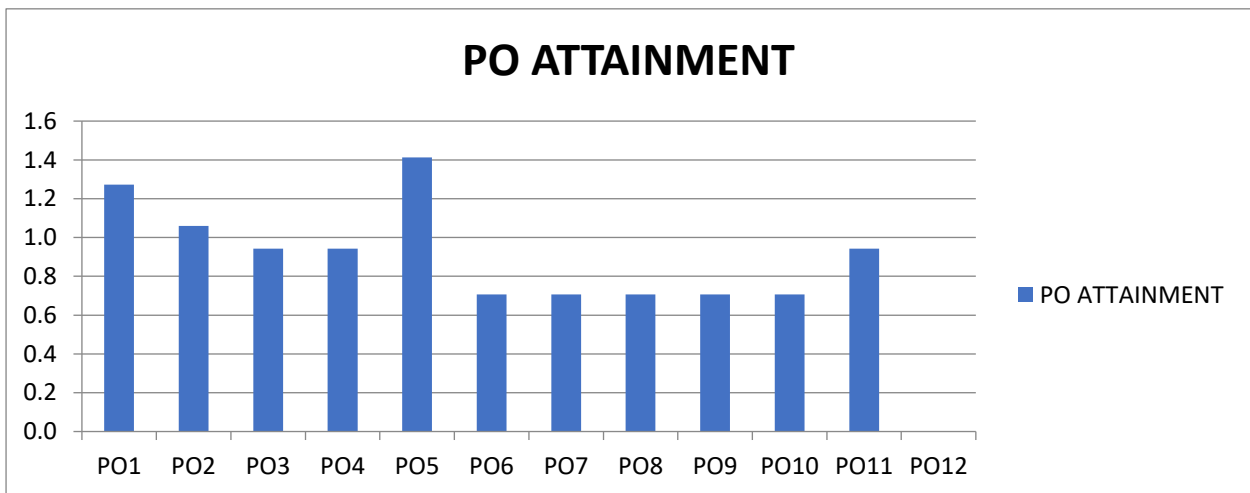
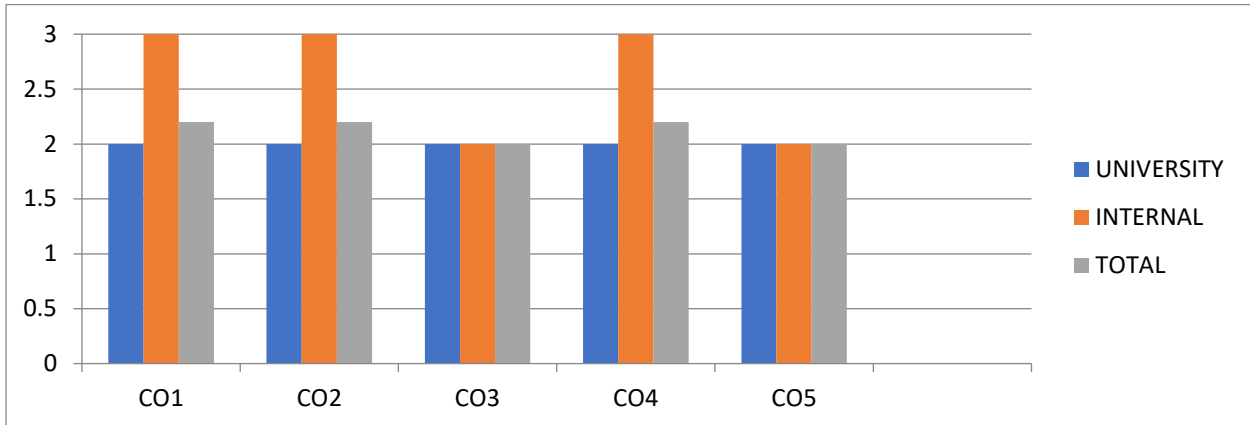
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If You Aim High, We Provide The Means

Paper code :	C - 314 (ICE)
Assessment Year :	2020-21
Semester	6
Total number of students :	122



Paper code :	C - 314
Assessment Year :	2020-21

Criterion 2

QIM 2.6.2 Attainment of POs and COs



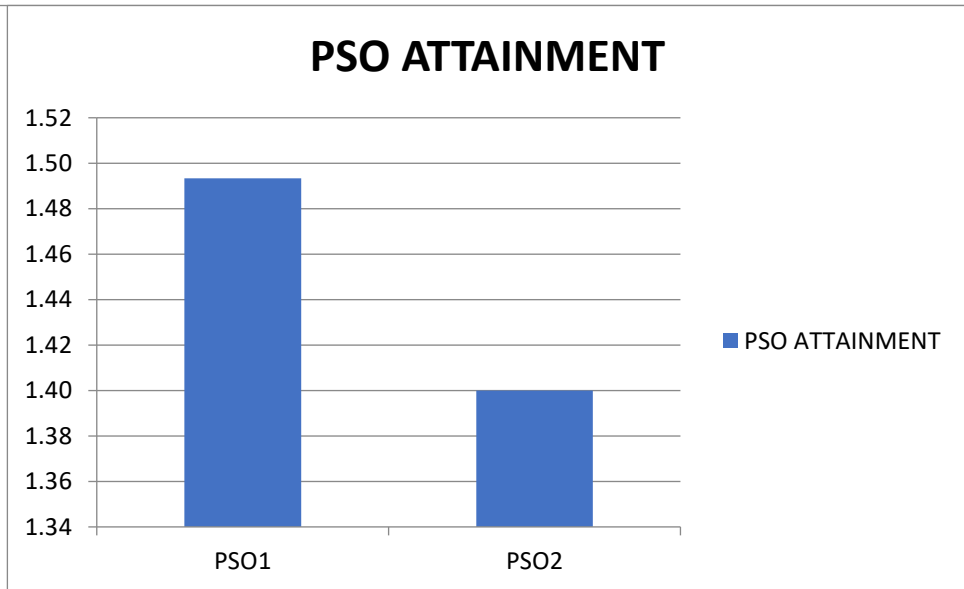
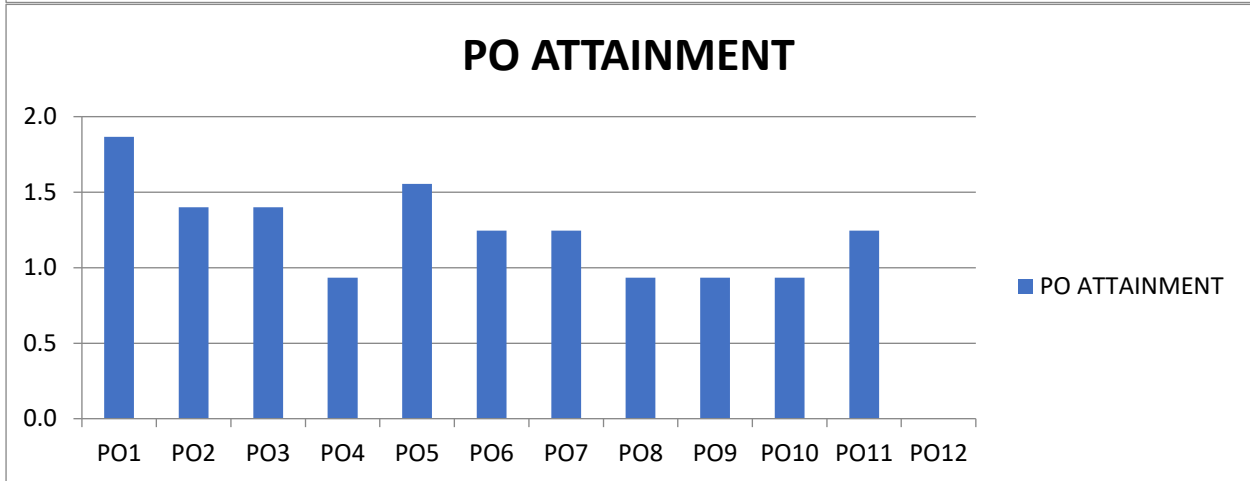
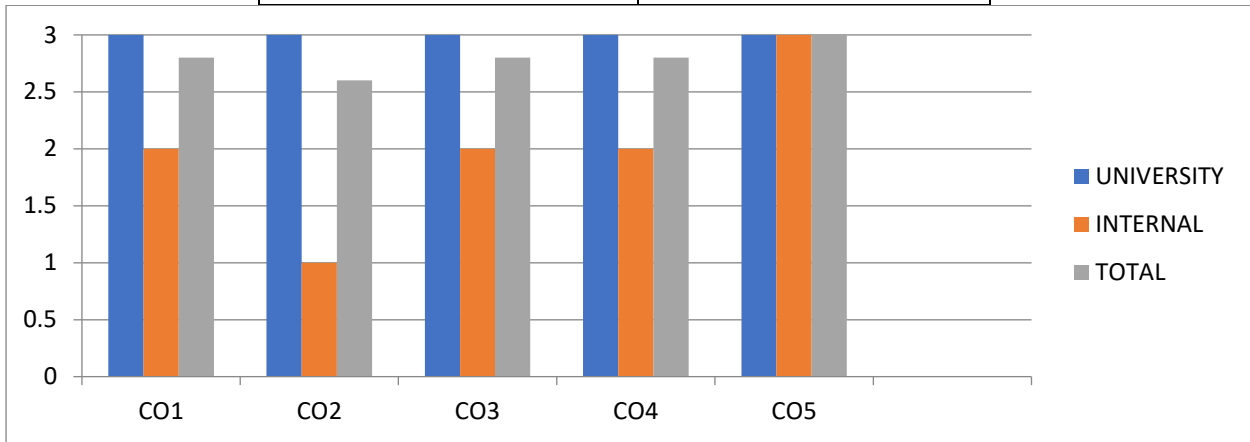
Established In 1998

Managed By St. Thomas Mission, Bhilai

Approved by AICTE and Affiliated to CSVTU, Bhilai

If You Aim High, We Provide The Means

Semester	6
Total number of students :	128



Paper code :	C - 314
Assessment Year :	2019-20

Criterion 2

QIM 2.6.2 Attainment of POs and COs



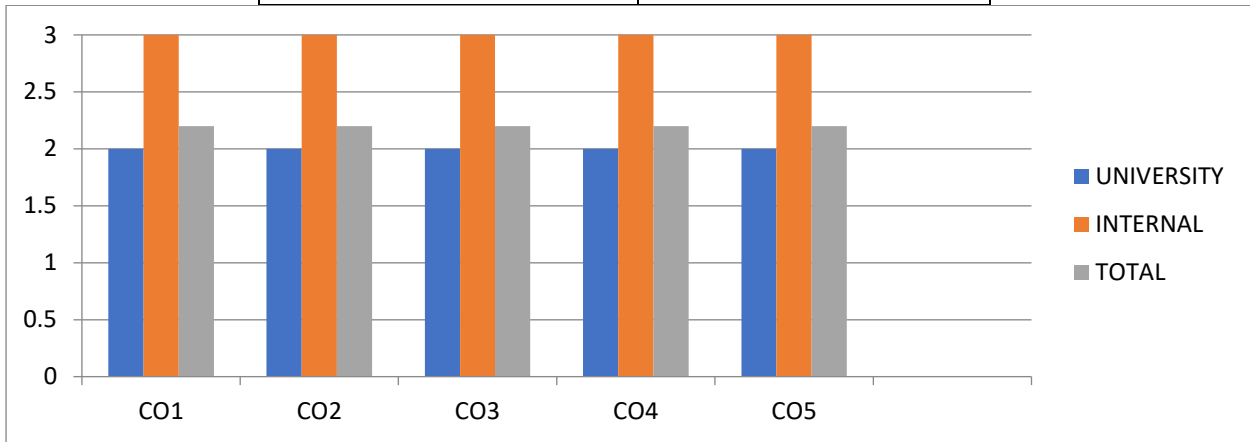
Established In 1998

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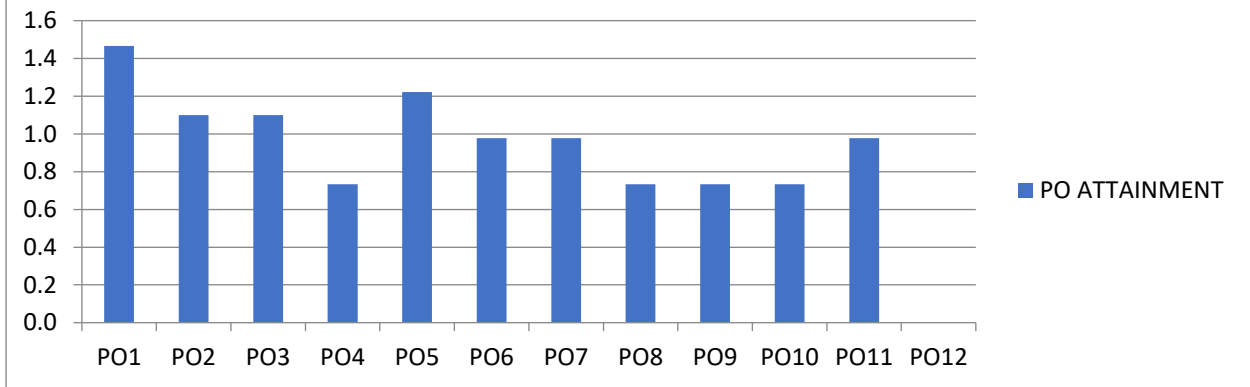
Approved by AICTE and Affiliated to CSVTU, Bhilai

If You Aim High, We Provide The Means

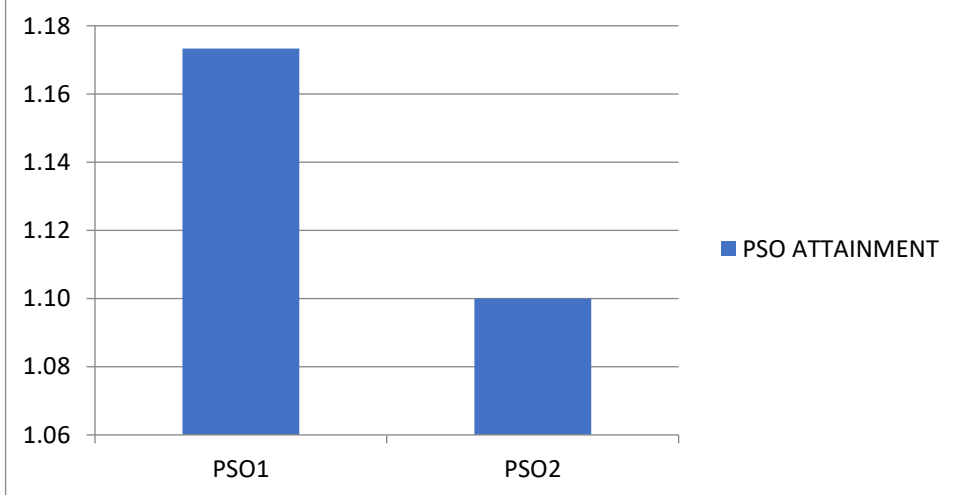
Semester	6
Total number of students :	126



PO ATTAINMENT



PSO ATTAINMENT



Subject Code:337731

Criterion 2

QIM 2.6.2 Attainment of POs and COs



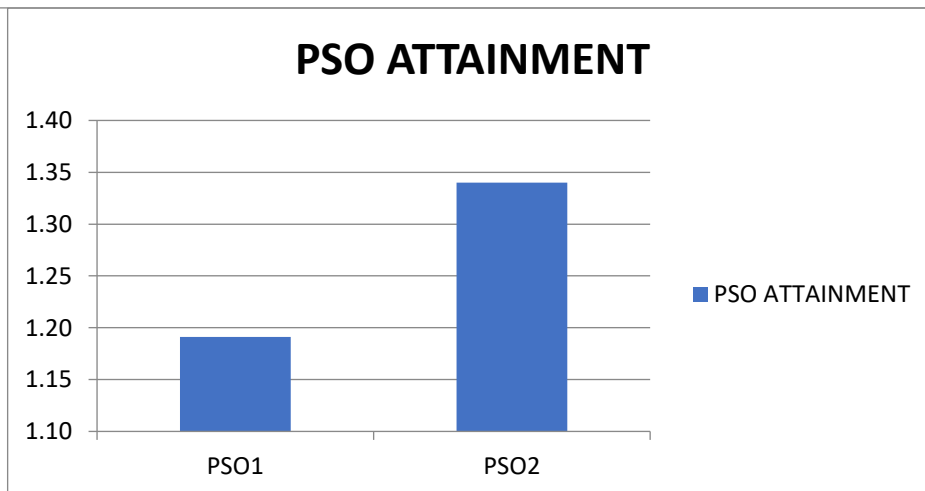
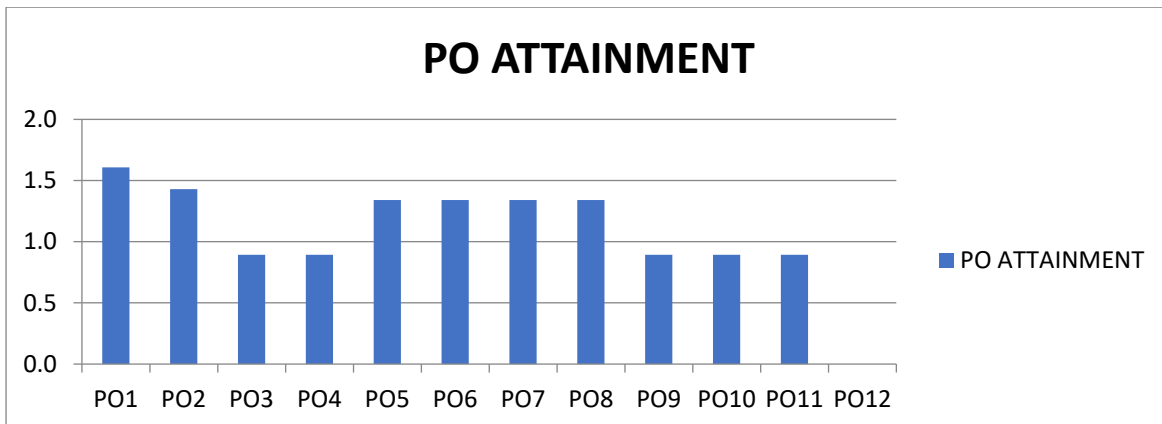
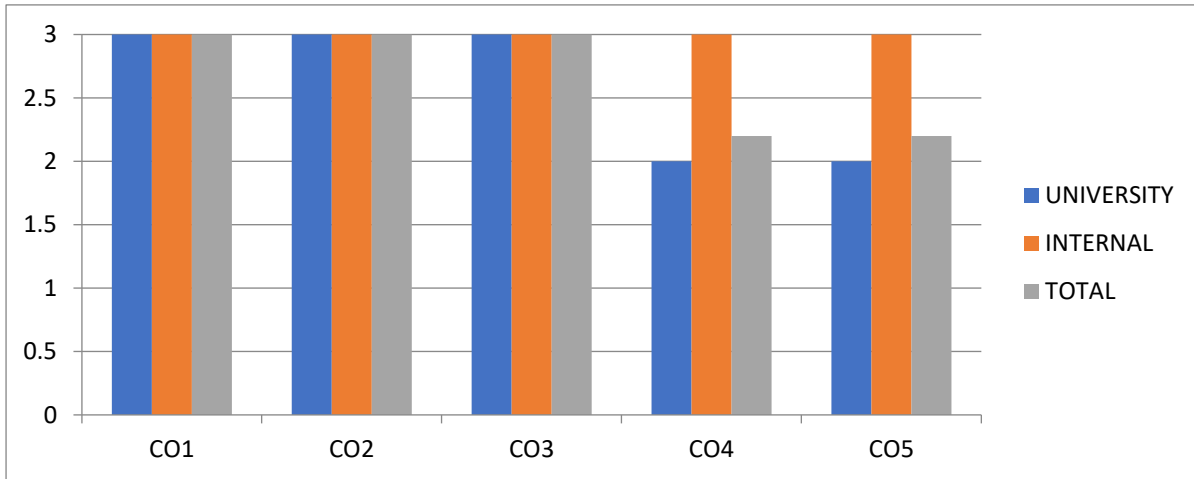
Established In 1998

Managed By St. Thomas Mission, Bhilai

Approved by AICTE and Affiliated to CSVTU, Bhilai

If You Aim High, We Provide The Means

(37)	
Paper code :	C - 401 (Automobile Engg)
Assessment Year :	2020-21
Semester	7
Total number of students :	127



Subject Code:	337731 (37)
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Criterion 2

QIM 2.6.2 Attainment of POs and COs



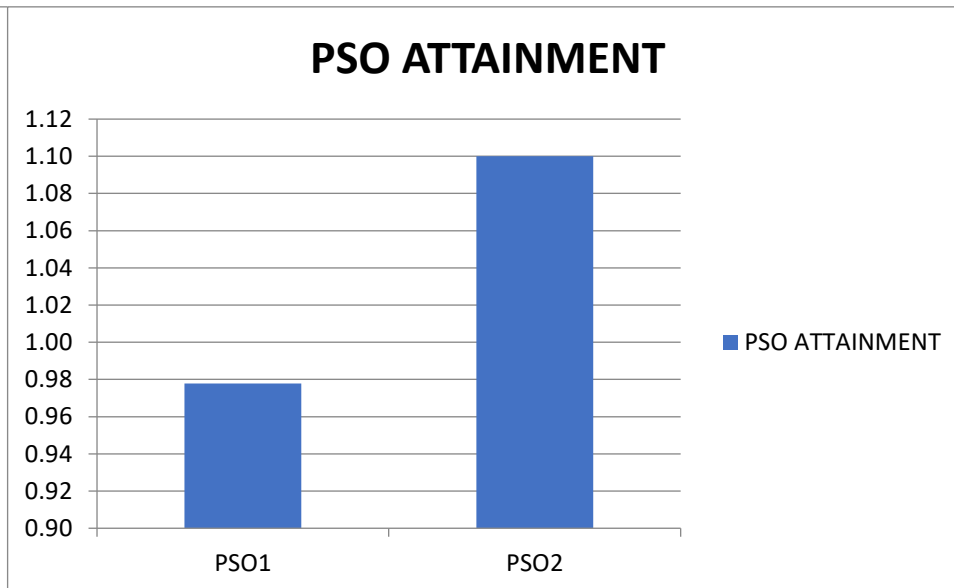
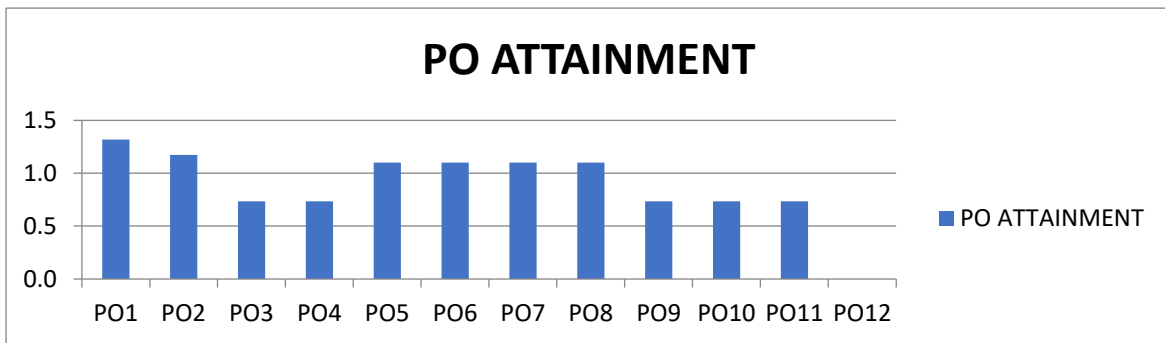
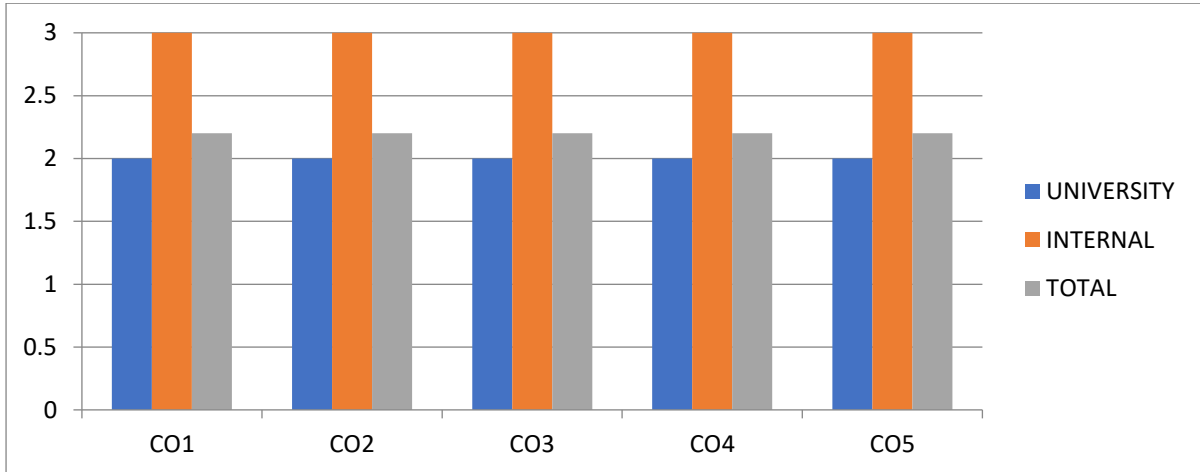
Established In 1998

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Approved by AICTE and Affiliated to CSVTU, Bhilai

If You Aim High, We Provide The Means

Paper code :	C - 401
Assessment Year :	2019-20
Semester	7
Total number of students :	115



Subject Code:	337731 (37)
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Criterion 2

QIM 2.6.2 Attainment of POs and COs



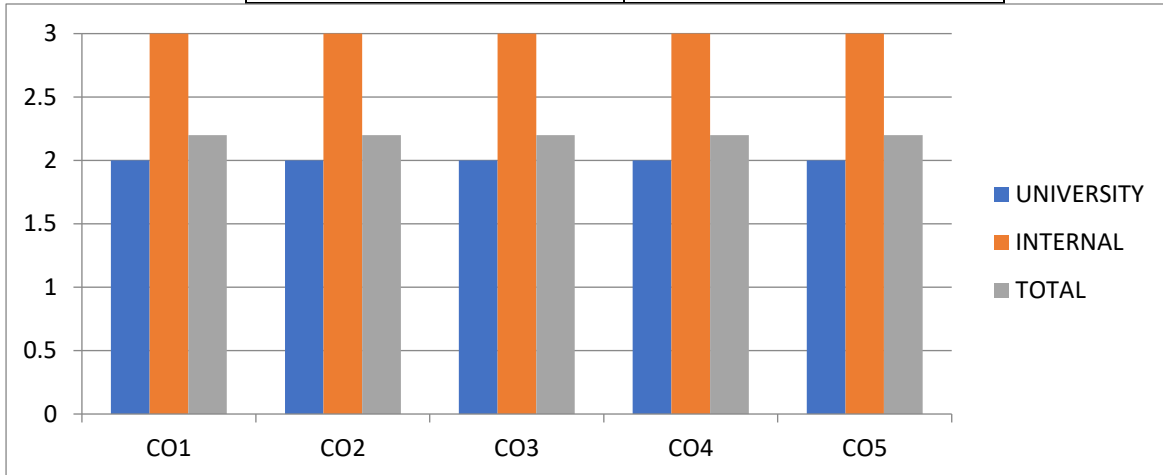
Established In 1998

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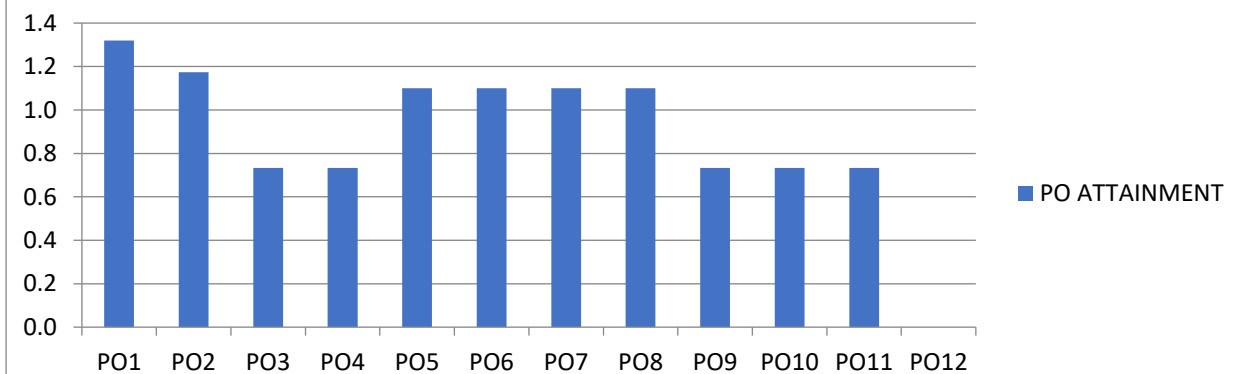
Approved by AICTE and Affiliated to CSVTU, Bhilai

If You Aim High, We Provide The Means

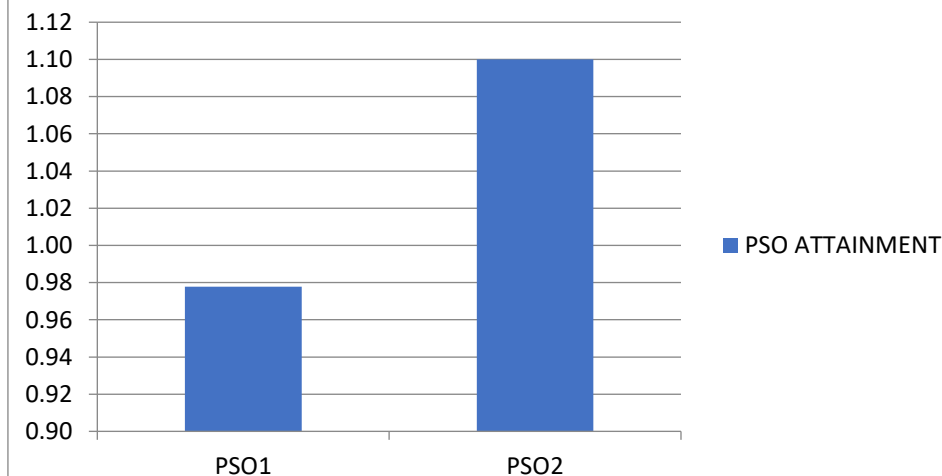
Paper code :	C - 401
Assessment Year :	2018-19
Semester	7
Total number of students :	122



PO ATTAINMENT



PSO ATTAINMENT



SSS

Criterion 2

QIM 2.6.2 Attainment of POs and COs



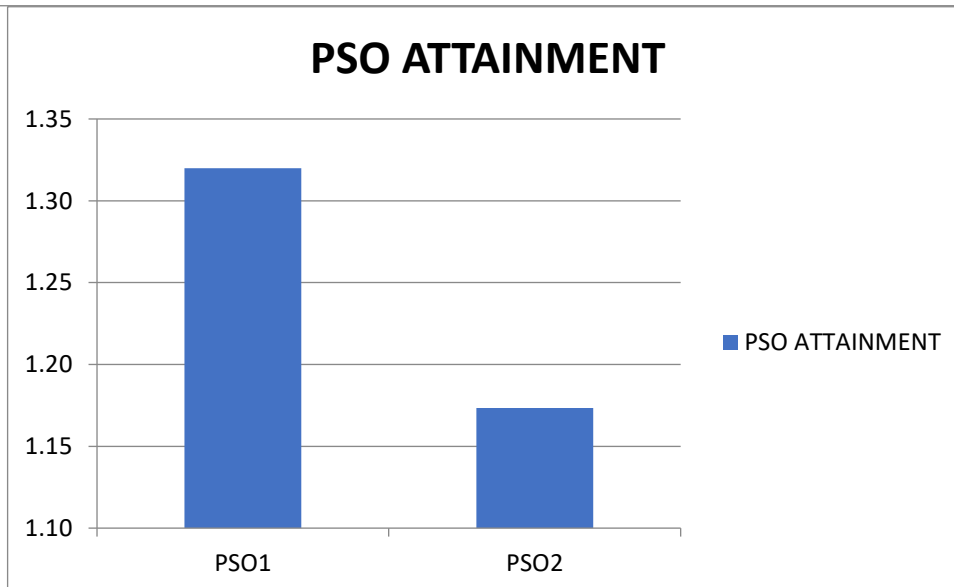
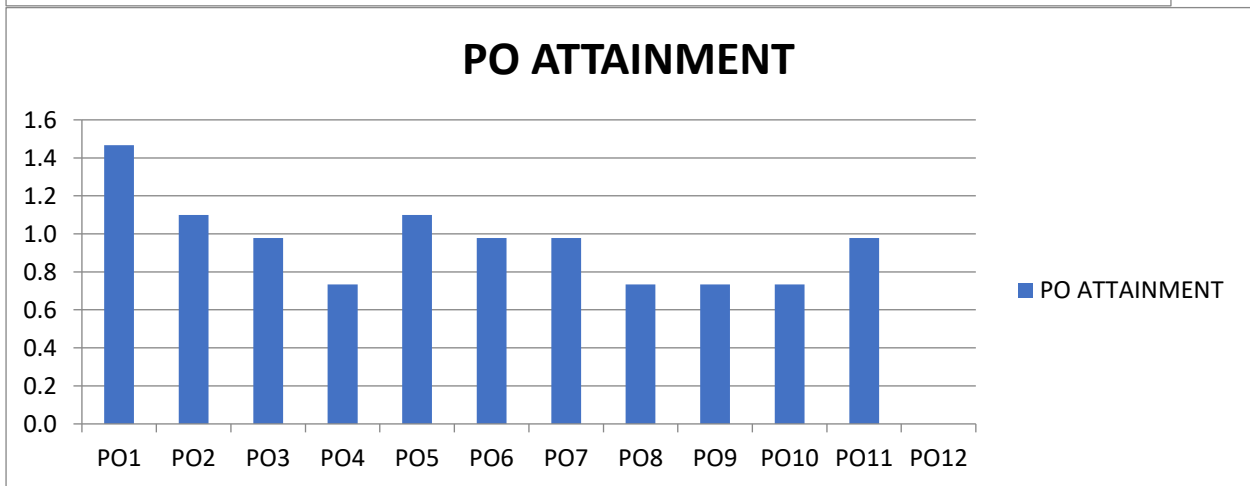
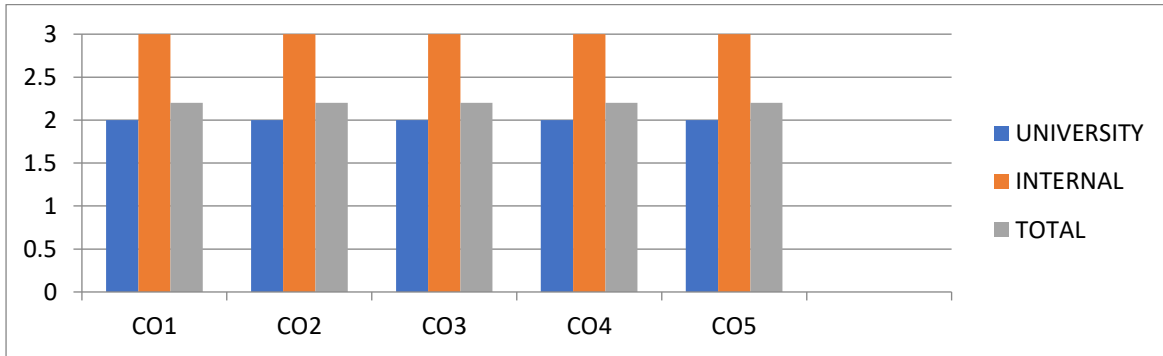
Established In 1998

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Approved by AICTE and Affiliated to CSVTU, Bhilai

If You Aim High, We Provide The Means

Paper code :	C - 411 (robotics)
Assessment Year :	2020-21
Semester	8
Total number of students :	127



Paper code :	C - 411
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Criterion 2

QIM 2.6.2 Attainment of POs and COs



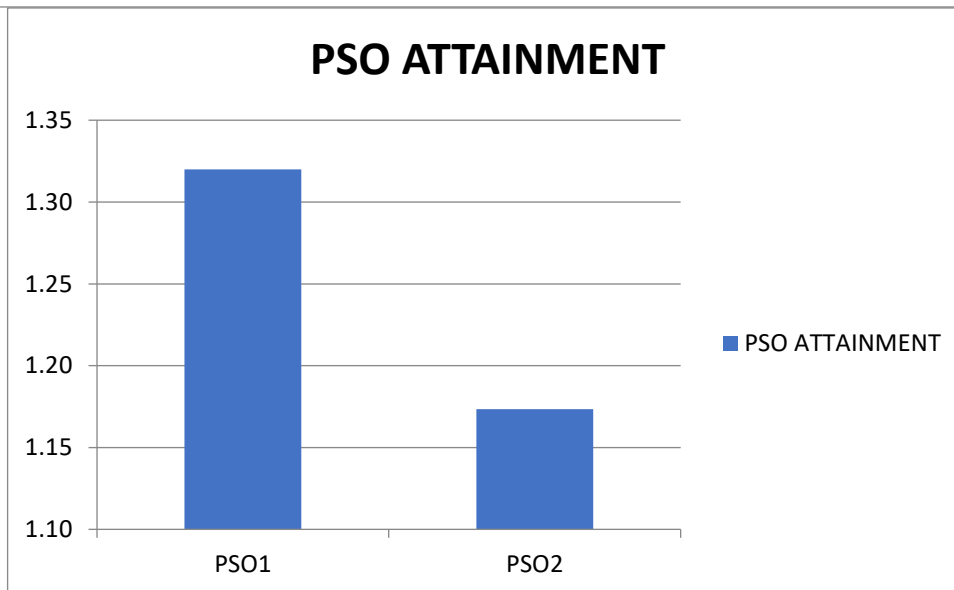
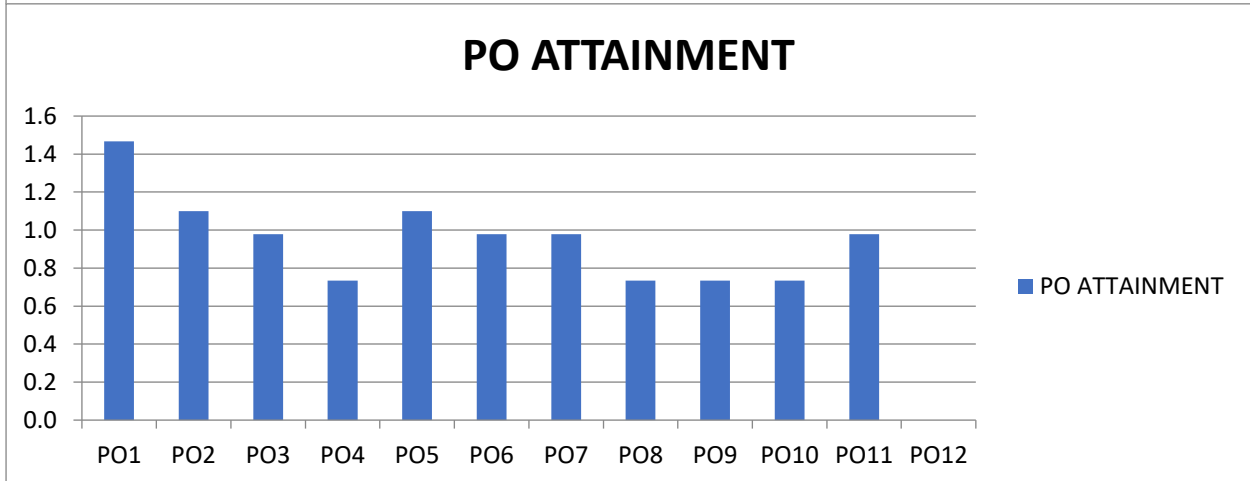
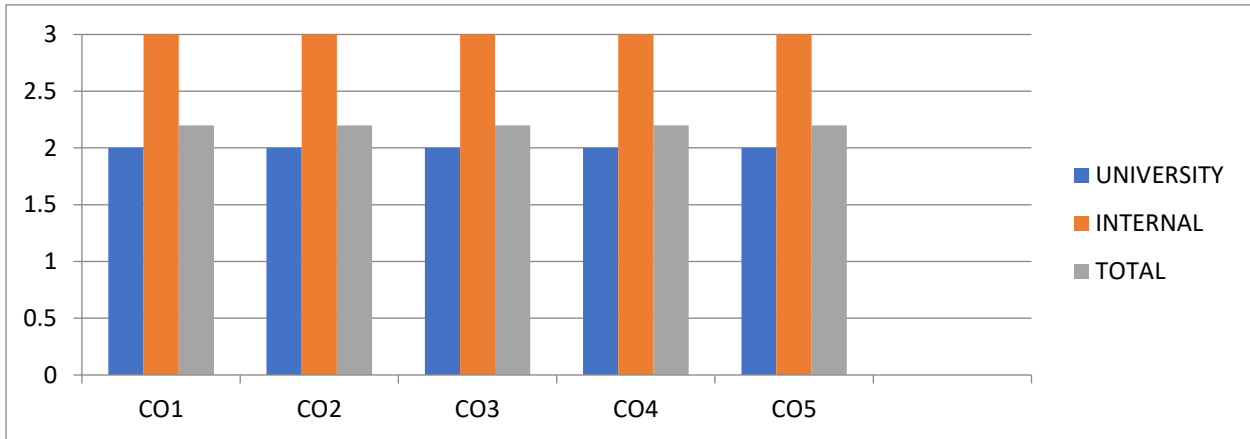
Established In 1998

Managed By St. Thomas Mission, Bhilai

Approved by AICTE and Affiliated to CSVTU, Bhilai

If You Aim High, We Provide The Means

Assessment Year :	2019-20
Semester	8
Total number of students :	121



Paper code :	C - 411
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Criterion 2

QIM 2.6.2 Attainment of POs and COs



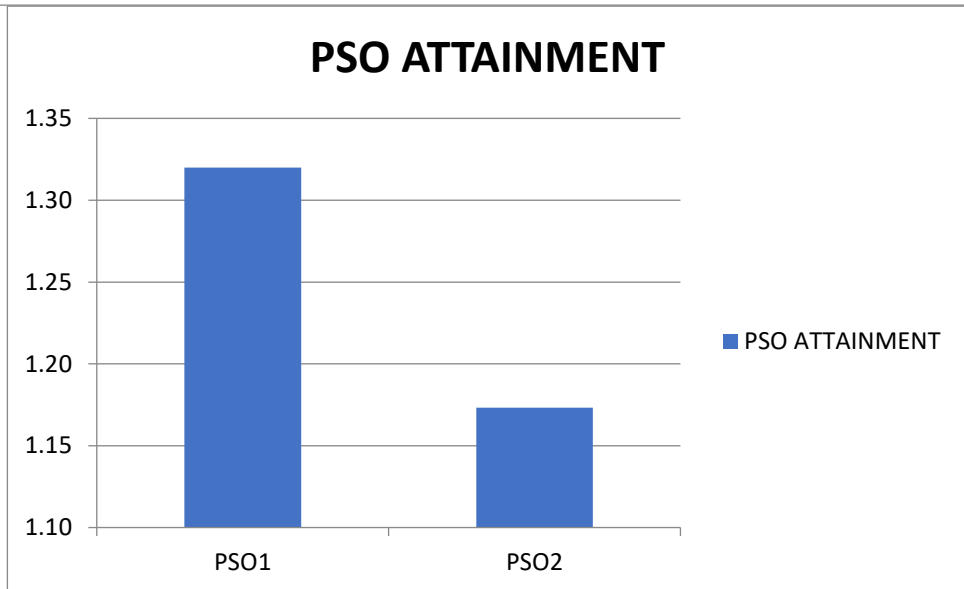
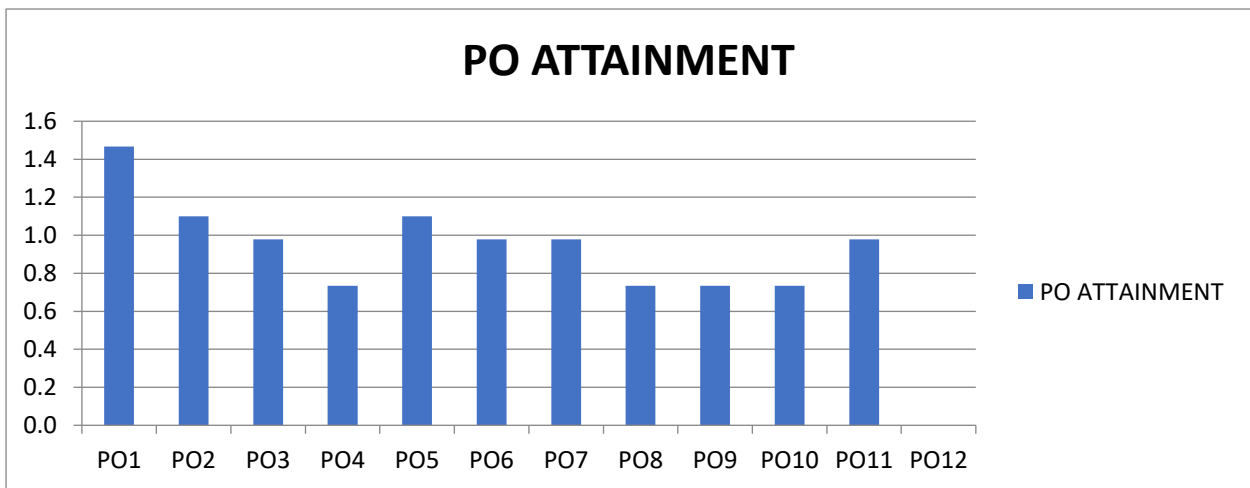
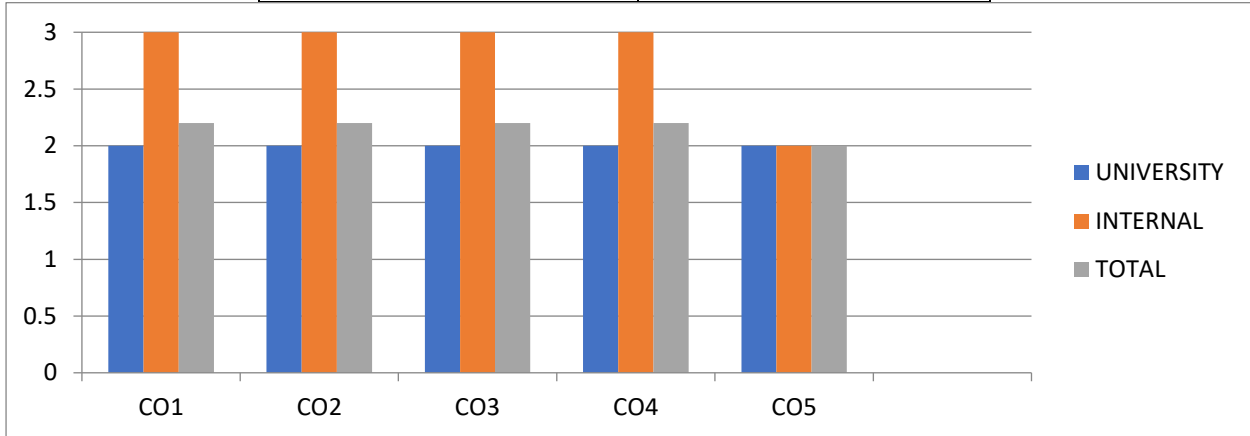
Established In 1998

Managed By St. Thomas Mission, Bhilai

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If You Aim High, We Provide The Means

Assessment Year :	2018-29
Semester	8
Total number of students :	120



Criterion 2