



Department of Mechanical Engineering

Academic Audit

U.G. Programmes

Academic Year: 2021 - 2022

Date and Day of Visit: Tuesday, 06/09/2022

SN	Details	Auditor 1	Auditor 2
1	Name of Auditor	Dr. Kiran Asutkar	Dr. S. P. Jolhe
2	Designation	Associate Professor	Assistant Professor
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Summary

Sr. No.	Parameters of Evaluation	Page No.	Max. Marks	Marks Scored
1	Academic Facilities	3	150	122
2	Teaching Learning Process	4	240	201
3	Examination System	6	110	93
4	Result	7	100	78.68
5	General Academic Activities	8	100	87
6	Feedback and Corrective Action	9	100	83.3
7	Faculty Performance/Up-gradation	10	70	45
Total			870	631.3


Grading System:

Grade	Details	Total Marks scored
A+	Excellent	675 and above
A	Good	541-674
B	Acceptable	450-540
C	Not-acceptable	Below 450

1. Strengths 1) More than 50% faculty is PhD & remaining are pursuing PhD
2) Effective Teaching Learning

2. Weaknesses- I) No. of books available in library are less II) Professor not available
III) Sanctioned posts of Assistant Professor are not filled IV) Some laboratories are under developed

3. Suggestions based on information: I) Efforts should be taken by the department for getting regular faculty II) Software and laboratory equipment should be procured


Auditor 1
Dr. K. G. Asutkar
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Auditor 2

Signature of auditor/s

1. Academic Facilities

Sr. No.	Sub-parameter	Quantity/ Facility(Y/N)	Marks Assigned	Marks Secured
1	No of class rooms	4	10	10
2	No of laboratories	10	10	10
3	No of tutorial rooms	1	5	5
4	Faculty rooms/cabins	6	5	5
5	Equipments available (curricula and cost wise)		30	24
6	Computing facilities (including software)	17 computer	10	7
7	Research facilities	---	10	0
8	Electric power available for 24x7	2 DG set of 320KVA	5	5
9	Audio visual facilities	Y	10	10
10	Class rooms furniture (quantity and quality)	Y	5	4
11	Laboratories furniture (quantity and quality)	Y	10	8
12	No of books, e-library, online journals and printed journals related to programme in the central library	Y	15	10
13	Departmental library	Y	5	5
14	Internet and wi-fi facility	Y	10	10
15	Improvement made in infrastructural facilities during last year	Y	10	9
Total =			150	122
<p>Any additional comments/feedback/observations/advice which may or may not be based on above points:</p> <p>Books are insufficient</p> <p>NDL Subscription for journal</p>				

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2. Teaching – Learning Process

Sr. No	Description	Quantity/ Facility (Y/N) / Remarks	Max. Marks	Marks Secured
1	Theory lectures			
	Average % of lectures conducted compared with target: more than 90% - 60 marks and less than 40% - 00 marks; in between 40% -90% marks are linearly graded.	More than 80%	60	50
	Course File			
	% of subjects for which teaching plan is prepared and execution	Y	20	20
	Quality of teaching plan and notes prepared by faculty	Y	10	8
	Preparation of question bank and allied activities	Y	10	8
	Novel techniques used for effective teaching learning process (including use of A/V aids, development of software/ teaching aids, use of available software, use of available learning resources etc.)	Y	10	7
2	Practical			
	Average % of practical conducted compared with that minimum required as per curriculum: less than 100% - 5 marks; 100% - 10, >100% marks; 15	100%	15	10
	Quality of experiments conducted	Good	10	7
	Availability of laboratory manual and its quality	Y	10	8
	Maintenance of laboratory equipments and new addition	Y	15	12
	Sponsored projects of UG students	Y	5	5
	Theory attendance of students			25
3	Average % of lectures attended by students more than 90% - 25 marks and less than 60% - 00 marks; in between 60% -90% marks are linearly graded.	More than 80%		
4	Practical attendance of students	More than 80%	10	8

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	Average % of practical attended by students 100% - 10 marks and less than 75% - 00 marks; in between 75% -100% marks are linearly graded.			
5	Corrective action taken by department against the defaulter students	Y	5	5
6	Home assignments and its assessment.	Y	5	5
7	Efforts taken by department to improve performance of academically weaker students	Y	10	8
8	Efforts taken by department to improve overall performance of students by Courses conducted/Expert lectures etc	Y	10	10
9	Staff development programs for Faculty and/or supporting staff including CEP/ STTP etc	Y	10	10
Total=			240	201

Any additional comments/feedback/observations/advice which may or may not be based on above points:

More than 80% faculty members are well qualified

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3. Examination System

Sr No	Description	Quantity/ Facility(Y/N) / Remarks	Max. Marks	Marks Secured
1	Examination Process			
	Execution of academic calendar for all examinations	Y	10	8
	Transparency in the processes like internal assessment; & declaration of result	Y	10	8
	Staff appointed for examination	Y	10	10
2	Quality of CT question papers			
	Appropriate coverage of syllabus in class test	Y	10	9
	Difficulty level of the question papers including numerical (at par with University Exam)	Y	10	8
	Innovation in question paper (Volume of repeated questions, correlation of questions with competitive examinations)	Y	10	8
3	Arranging quiz, surprise test, assignments etc.	Y	10	10
4	Practical / term work			
	Assessment of practical (journal).	Y	10	8
	Assessment method to judge depth of understanding	Y	10	8
	Appropriate weight-age to various components of term work assessment	Y	10	7
	Continuous evaluation of project/seminar and its record (maintenance of logbook)	Y	10	9
Total =			110	93
	<p>Additional comments/feedback/observations/advice which may or may not be based on above points:</p> <p>Difficulty level of question paper is remarkable</p> <p>Quizzes & Assignments are well planned & executed</p> <p>Many Industrial projects are done</p>			

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4. Result

Sr No	Description	Quantity/ Facility(Y/N) / Remarks	Marks Assigned	Marks Secured
1	Performance of students in Class Test-I		10	9.6
	Average % of students passing in CT-I *0.1			
2	Performance of students in Class Test-II		10	9.7
	Average % of students passing in CT-II *0.1			
3	Performance of students in University Exam		30	27
	Average % of students passing in UE *0.3			
4	Overall Performance of students		50	32.38
	% of students securing CGPA > 9*0.5		14.92	
	% of students securing CGPA in between 8.25 and 9.0 *0.4		12.93	
	% of students securing CGPA in between 6.75 and 8.25 *0.3		4.5	
	% of students securing CGPA in between 5.75 and 6.75 *0.2		0.0334	
	% of students securing CGPA < 5.75 *0.1			
5	Number of copy cases reported and punished * (- 2)	--		
Total =			100	78.68
<p>Additional comments/feedback/observations/advice which may or may not be based on above points:</p> <p>Some students are in university toppers list</p>				

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5. General Academic Activities

Sr. No.	Sub parameter	Quantity/ Facility(Y/N) / Remarks	Marks Assigned	Marks Secured
1	Whether all activities performed as per academic calendar?	Y	5	5
2	Whether academic processes are student developments centric?	Y	5	5
3	Students enrollment for co-curriculum activities in or out the institute	Y	10	8
4	Whether co-curriculum activities of institute/department are evenly distributed throughout the year?	Y	5	5
5	Participation of students in Sport?	Y	10	10
6	Participation of students in cultural activities?	Y	10	10
7	Implementation of AICTE schemes such as IIC, Skill India, NPTEL etc.	Y	5	2
8	How much is overall placement of students (in % based on eligible students) and annual pay package?	Y	10	7
9	How is the performance of students in Extension of services through NSS/NCC?	Y	5	5
10	Industrial visits organized by department.	Y	10	8
11	Technical events organized by the department for faculty and students including CEP/STTP/Expert lectures/Model or project competition/GD/PI etc	Y	20	17
12	Performance in competitive examinations like GATE/CAT etc	Y	5	5
Total =			100	87
<p>Any additional comments/feedback/observations/advice which may or may not be based on above points:</p> <p>Best department trophy won by the department</p>				

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6. Student's Feedback and Corrective Action

Sr. No.	Sub parameter	Quantity/ Facility(Y/N) / Remarks	Marks Assigned	Marks Secured	
1	Feedback during the semester				
	Frequency of obtaining student's feedback (Meetings of CRs etc)	Y	10	9	
	Corrective action taken at the departmental level	Y	10	9	
2	Grievance/Suggestion mechanism				
	Through Online /email	Y	10	9	
	Corrective action taken for suggestions at the departmental level	Y	10	9	
3	Feedback at the end of semester (Over all impression reported by students)		Y	40	32.3
	% of Excellent responses *0.4			0.8	
	% of Very Good responses *0.35			24.5	
	% of Good responses *0.25			7	
	% of Poor responses *0.15				
	% very poor responses *0.05				
4	Corrective action taken by department for point 3		20	15	
Total =			100	83.3	
<p>Any additional comments/feedback/observations/advice which may or may not be based on above points:</p> <p>Overall feedback responses are very good</p>					

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7. Faculty Performance

Sr. No.	Description	Quantity/ Faculty(Y/N) / Remarks	Marks Assigned	Marks Secured
1	Performance appraisal		30	
	% of faculty received "A+" remark* 0.3			
	% of faculty received "A" remark* 0.2			
	% of faculty received "B" remark* 0.1			
2	Qualification enhancement of faculty through qualification / online courses		5	0
3	Overall performance of faculty, based on research paper published in journals, conferences and seminar.		15	12
4	MODROB/UBA/ RPS and other sponsored projects received by the department		5	5
5	Participation of faculty outside the Institution		10	8
6	Performance of faculty, based on books publication, patent filed and awards		5	0
7	Performance of faculty, based on consultancy and internal revenue generation (IRG)		5	4
8	% of faculty members participated in various faculty development programme		10	8
9	Innovative ideas implemented by the department for overall academic development of students		10	5
10	Whether guided Research scholars?		5	3
Total =			70	45

Any additional comments/feedback/observations/advice which may or may not be based on above points:

**CR of 2021-22 not yet received
NPTEL enrollment is very poor**

Note: If any activity is not associated / eligible, then allotted marks may be deducted from marks of that section.

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