



Government College of Engineering, Nagpur



("To be an Institution of National Repute Creating Globally Competent Technocrats to Serve the Society")
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"To be an Institution of National Repute Creating Globally Competent Technocrats to Serve the Society"
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Department of Mechanical Engineering

Academic Audit

U.G. Programmes

Academic Year: 2019 - 2020

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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Signature of auditor/s

Summary

Sr. No.	Parameters of Evaluation	Page No.	Max. Marks	Marks Scored
		3	150	111
1	Academic Facilities	4	240	200
2	Teaching Learning Process	6	110	93
3	Examination System	7	100	87.13
4	Result	8	100	85
5	General Academic Activities	9	100	85.95
6	Feedback and Corrective Action	10	70	46
7	Faculty Performance/Up-gradation			
		Total	870	708.08

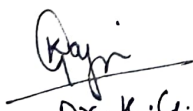
Grading System:

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 or applying
2) Effective Teaching Learning

2. Weaknesses- 1) No. of books available in library are less 2) Professor not available
3) Sanctioned posts of Assistant Professor are not filled 4) Some laboratories are under developed 5) Online teaching platform should be improved

3. Suggestions based on information: 1) Efforts should be taken by the department for getting regular faculty 2) Software to be procured 3) Additional practical should be conducted as per requirements of industry


Dr. K.G. Asutkar
Auditor 1


Auditor 2

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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	21
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	4
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	7
Total =			150	111
<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
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
3	Theory attendance of students		25	20
	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%		

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4	Practical attendance of students	More than 80%	10	8
	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	7
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	200

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 Quizzes & Assignments are well planned & executed 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	40.82
	% of students securing CGPA > 9*0.5		2.735	
	% of students securing CGPA in between 8.25 and 9.0 *0.4		14.93	
	% of students securing CGPA in between 6.75 and 8.25 *0.3		17.886	
	% of students securing CGPA in between 5.75 and 6.75 *0.2		4.404	
	% of students securing CGPA < 5.75 *0.1		0.872	
5	Number of copy cases reported and punished * (- 2)	--		
Total =			100	87.13

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

Some students are in university toppers list

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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	15
12	Performance in competitive examinations like GATE/CAT etc	Y	5	5
Total =			100	85
<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)			
	% of Excellent responses *0.4		4	
	% of Very Good responses *0.35		23.45	
	% of Good responses *0.25		7.5	
	% of Poor responses *0.15			
	% very poor responses *0.05			
4	Corrective action taken by department for point 3		20	15
Total =			100	85.95
Any additional comments/feedback/observations/advice which may or may not be based on above points:				
Overall feedback responses are very good				

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7. Faculty Performance

Sr. No.	Description	Quantity/ Facility(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	1
3	Overall performance of faculty, based on research paper published in journals, conferences and seminar.		15	12
4	MOJROB/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	46

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

**CR of 2019-20 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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