



Government College of Engineering, Nagpur



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

Sector 27, Mihan Rehabilitation Colony, New Khapri (Rly), Nagpur- 441108 (Maharashtra State)

"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: 2020 - 2021

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
1	Academic Facilities	3	150	114
2	Teaching Learning Process	4	240	196
3	Examination System	6	110	90
4	Result	7	100	87.73
5	General Academic Activities	8	100	58
6	Feedback and Corrective Action	9	100	84
7	Faculty Performance/Up-gradation	10	70	41
		Total	870	670.73


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-** 1) Professor not available 2) Sanctioned posts of Assistant Professor are not filled 3) Some laboratories are under developed 4) No. of books available in library are less

- 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


Auditor 1
 Dr. K. G. Asutkar


Auditor 2

Name and Signature of Auditor/s

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	23
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	8
Total =			150	114
<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	0
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%		
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	196

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	9	
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	7	
Total =			110	90	
<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</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	41.43
	% of students securing CGPA > 9*0.5		15.62	
	% of students securing CGPA in between 8.25 and 9.0 *0.4		21.31	
	% of students securing CGPA in between 6.75 and 8.25 *0.3		4.26	
	% of students securing CGPA in between 5.75 and 6.75 *0.2		0.22	
	% of students securing CGPA < 5.75 *0.1		0.015	
5	Number of copy cases reported and punished * (- 2)	--		
Total =			100	87.73
<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	0
6	Participation of students in cultural activities?	Y	10	5
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	0
10	Industrial visits organized by department.	Y	10	0
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	16
12	Performance in competitive examinations like GATE/CAT etc	Y	5	5
Total =			100	58
<p>Any additional comments/feedback/observations/advice which may or may not be based on above points: No sports activities conducted due to COVID-19</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			
	% of Very Good responses *0.35		24.5	
	% 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	16
Total =			100	84
<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	1
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	0
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	41

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

**CR of 2020-21 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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