



## 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 Electrical Engineering

### Internal Academic Audit

U.G. Programmes

Academic Year: 2023-2024

Date and Day of Visit: 03/01/2025

SN	Details	Auditor 1	Auditor 2
1	Name of Auditor	Dr. S.W.Rajurkar	Dr. C.P.Kalambe
2	Designation	Asso. Professor & Dean (Academics), Mech. Engg. Deptt.	Asst. Professor, Chemistry Department,
3	Institute name	GCOE, Nagpur	GCOE, Nagpur
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*(Dr. S.W. Rajurkar)*

*C.P. Kalambe*

Signature of auditor/s

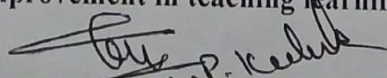
## Summary

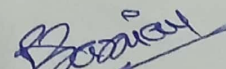
Sr. No.	Parameters of Evaluation	Page No.	Max. Marks	Marks Scored
1	Academic Facilities	3	150	96
2	Teaching Learning Process	4	240	191
3	Examination System	6	110	83
4	Result	7	100	67
5	General Academic Activities	8	100	75
6	Feedback and Corrective Action	9	100	83
7	Faculty Performance/Up-gradation	10	100	75
		Total	900	670

### 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. Faculty Participation in Patent & publications is very good.  
                       2. Co curricular activities of students are excellent
2. Weaknesses- 1. Very less number of class rooms & furniture are available in the department,  
                       2. Lab infrastructure needs to be improved; additional advanced equipments are needed in labs.  
                       3. Additional efforts are required to improve CGPA.
3. Suggestions based on information:-  
    1. Feedback mechanism needs to be improved & analysis of feedback & action taken required on regular basis.  
    2. Additional efforts are required to improve performance of academically weaker students  
    3. needs improvement in teaching learning process (specially for CHB faculty)

  
Auditor 1

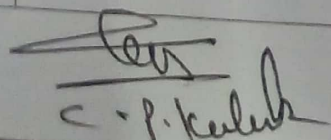
  
Auditor 2

Name and Signature of Auditor/s

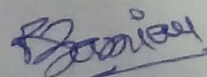
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## 1. Academic Facilities

Sr. No.	Sub-parameter	Quantity/ Facility(Y/N)	Marks Assigned	Marks Secured
1	No of class rooms	02	10	05
2	No of laboratories	08	10	06
3	No of tutorial rooms	01	5	03
4	Faculty rooms/cabins	02+01 (six cabins)	5	03
5	Equipment available (curricula and cost wise)	Moderate needs additional kits, advanced equipments	35	26
6	Computing facilities (including software)	Moderate needs additional software	10	05
7	Research facilities	Insufficient	10	03
8	Audio visual facilities	sufficient	10	08
9	Class rooms furniture	Moderate (needs additional furniture)	5	03
10	Laboratories furniture	sufficient	10	08
11	No of books, e-library, online journals and printed journals related to program in the central library	Moderate (recent journals not available)	15	08
12	Departmental library	available	5	04
13	Internet and wi-fi facility	available	10	08
14	Improvement made in infrastructural facilities during last year	partial	10	06
<b>Total=</b>			<b>150</b>	<b>96</b>
<p>Any additional comments/feedback/observations/advice which may or may not be based on above points:</p> <ol style="list-style-type: none"> <li>1. Additional Class rooms, tutorial rooms &amp; labs are required along with furniture.</li> <li>2. Advanced kits are required in few laboratories.</li> <li>3. Advanced software are needed</li> <li>4. Recent journals are required in central as well as departmental library.</li> </ol>				

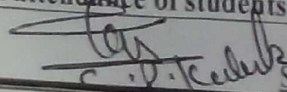
  
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## 2. Teaching – Learning Process

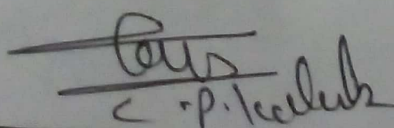
Sr. No	Description	Quantity/ Facility (Y/N) / Remarks	Max. Marks	Marks Secured
1	<b>Theory lectures</b>			
	Average % of lectures conducted compared with target: more than 90% - 60 marks and less than 40% - 00 marks; in between 40% -90% marks are linearly graded.	96.63%	60	60
	<b>Course File</b>			
	% of subjects for which teaching plan is prepared and execution	Appx. 90% (Needs improvement)	20	16
	Quality of teaching plan and notes prepared by faculty	Good	10	08
	Preparation of question bank and allied activities	Moderate	10	06
	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.)	Yes (partial)	10	06
2	<b>Practical</b>			
	Average % of practical conducted compared with that minimum required as per curriculum: less than 100% - 5 marks; 100% - 10, >100%marks; 15	100% for few courses additional practicals taken by the faculty	15	15
	Quality of experiments conducted	Good	10	08
	Availability of laboratory manual and its quality	Available but needs improvement	10	06
	Maintenance of laboratory equipment and new addition	Ok, still for few equipments maintenance is required & for few labs additional advanced kits are required	15	10
	Sponsored projects of UG students	Not available	5	0
3	<b>Theory attendance of students</b>		25	22
	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.	88.08%		
4	<b>Practical attendance of students</b>		10	08

  
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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.	94.43%		
5	Corrective action taken by department against the defaulter students	partial	5	03
6	Home assignments and its assessment.	Ok, needs improvements	5	03
7	Efforts taken by department to improve performance of academically weaker students	Yes, still more efforts required	10	06
8	Efforts taken by department to improve overall performance of students by Courses conducted/Expert lectures etc	Needs improvements	10	07
9	Staff development programs for Faculty and/or supporting staff including CEP/STTP etc	Moderate	10	07
Total=			240	191

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

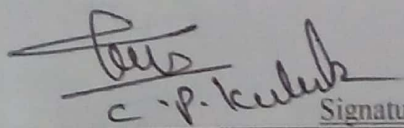
1. Needs improvement in Teaching Plan
2. Novel/innovative techniques to be used for effective teaching learning process.
3. Advanced equipments are needed in laboratories
4. Additional efforts are required to improve performance of academically weaker students

  
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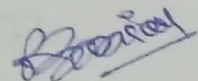
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### 3. Examination System

Sr No	Description	Quantity/ Facility(Y/N) / Remarks	Max. Marks	Marks Secured
<b>1</b>	<b>Examination Process</b>			
	Execution of academic calendar for all examinations	yes	10	09
	Transparency in the processes like internal assessment; & declaration of result	yes	10	09
	Staff appointed for examination	partial	10	08
<b>2</b>	<b>Quality of CT question papers</b>			
	Appropriate coverage of syllabus in class test	Moderate	10	07
	Difficulty level of the question papers including numerical( at par with University Exam)	Moderate (Needs improvements)	10	07
	Innovation in question paper (Volume of repeated questions, correlation of questions with competitive examinations)	Moderate (Needs improvements)	10	06
<b>3</b>	<b>Arranging quiz, surprise test, assignments etc.</b>	yes	10	07
<b>4</b>	<b>Practical/termwork</b>			
	Assessment of practical (journal).	Good (Needs improvements)	10	07
	Assessment method to judge depth of understanding	Moderate (Needs improvements)	10	07
	Appropriate weight-age to various components of term work assessment	Moderate	10	07
	Continuous evaluation of project/seminar and its record (maintenance of logbook)	Good	10	09
	<b>Total =</b>			<b>110</b>
<p><b>Additional comments/feedback/observations/advice which may or may not be based on above points:</b></p> <ol style="list-style-type: none"> <li>1. While setting Question papers, blooms taxonomy should be used</li> <li>2. Rubrics to be designed for assessment of Practical (journal)/Term work</li> <li>3. Continuous assessment evaluation technique to be used for practical assessment</li> </ol>				

  
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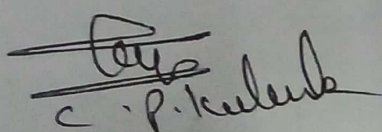


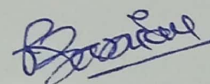
## 4. Result

Sr No	Description	Quantity/ Facility(Y/N) / Remarks	Marks Assigned	Marks Secured
1	Performance of students in Class Test-I	88.71%	10	09
	Average % of students passing in CT-I *0.1			
2	Performance of students in Class Test-II	69.07%	10	07
	Average % of students passing in CT-II *0.1			
3	Performance of students in University Exam	87.99%	30	26
	Average % of students passing in UE *0.3			
4	Overall Performance of students		50	
	% of students securing CGPA > 9*0.5	2.04%		1.0
	% of students securing CGPA in between 8.25 and 9.0 *0.4	25.07%		10.0
	% of students securing CGPA in between 6.75 and 8.25 *0.3	37.74%		11.0
	% of students securing CGPA in between 5.75 and 6.75 *0.2	12.47%		3.0
	% of students securing CGPA < 5.75 *0.1	1.19%		0.0
5	Number of copy cases reported and punished * (- 2)	Nil		
Total=			100	67

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

1. Additional efforts are required to improve CGPA

  
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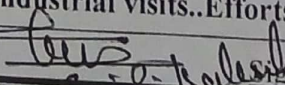
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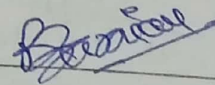
## 5. General Academic Activities

Sr. No.	Sub parameter	Quantity/ Facility(Y/N) / Remarks	Marks Assigned	Marks Secured
1	Whether all activities performed as per academic calendar?	Yes	5	4
2	Whether academic processes are student developments centric?	Yes	5	4
3	Students enrollment for co-curriculum activities in or out the institute	Moderate	10	08
4	Whether co-curriculum activities of institute/department are evenly distributed throughout the year?	Yes	5	04
5	Participation of students in Sport?	Good	10	08
6	Participation of students in cultural activities?	Good	10	08
7	Implementation of AICTE schemes such as IIC, Skill India, NPTEL etc.	Partial (NPTEL)	5	03
8	How much is overall placement of students (in % based on eligible students) and annual pay package?	Approx. 74% Pay:- approx 3 to 6.5 LPA	10	08
9	How is the performance of students in Extension of services through NSS/NCC?	Good	5	04
10	Industrial visits organized by department.	Partial (Only Internal Visits)	10	06
11	Technical events organized by the department for faculty and students including CEP/STTP/Expert lectures/Model or project competition/GD/PI etc	Moderate	20	16
12	Performance in competitive examinations like GATE/CAT etc	Moderate (Needs improvement)	5	02
<b>Total =</b>			<b>100</b>	<b>75</b>

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

1. Additional efforts are required for improving the performance in Competitive examinations.
2. Need more Industrial visits..Efforts required

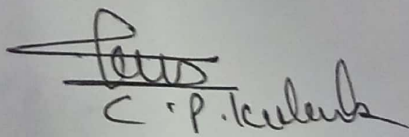
  
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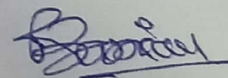


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## 6. Student's Feedback and Corrective Action

Sr. No.	Sub parameter	Quantity/ Facility(Y/N) / Remarks	Marks Assigned	Marks Secured
1	<b>Feedback during the semester</b>			
	Frequency of obtaining student's feedback (Meetings of CRs etc)	Regular	10	08
2	Corrective action taken at the departmental level	Moderate	10	07
	<b>Grievance/Suggestion mechanism</b>			
	Through Online /email	Yes	10	08
	Corrective action taken for suggestions at the departmental level	Moderate	10	07
3	<b>Feedback at the end of semester (Over all impression reported by students)</b>		40	
	% of Excellent responses *0.4	53%		21
	% of Very Good responses *0.35	33%		12
	% of Good responses *0.25	14%		4
	% of Poor responses *0.15			
	% very poor responses *0.05			
4	Corrective action taken by department for point 3	Moderate (Needs improvement)	20	16
<b>Total=</b>			100	83
Any additional comments/feedback/observations/advice which may or may not be based on above points:				
Overall Satisfactory				

  
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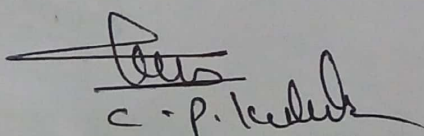
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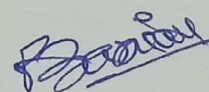
## 7. Faculty Performance

Sr. No.	Description	Quantity/ Facility(Y/N) / Remarks	Marks Assigned	Marks Secured
1	Performance appraisal		30	
	% of faculty received "A+" remark* 0.3	01 (20%)		06
	% of faculty received "A" remark* 0.2	05 (80%)		16
	% of faculty received "B" remark* 0.1			
2	Qualification enhancement of faculty through qualification / online courses	Good	5	04
3	Overall performance of faculty, based on research paper published in journals, conferences and seminar.	Very Good	15	14
4	MODROB/UBA/ RPS and other sponsored projects received by the department	UBA Accepted (Fund not received)	5	03
5	Participation of faculty outside the Institution	Good	10	08
6	Performance of faculty, based on books publication, patent filed and awards	Very Good	5	04
7	Performance of faculty, based on consultancy and internal revenue generation (IRG)	Moderate (approx. Rs. 3.00 lacks IRG)	5	03
8	% of faculty members participated in various faculty development programme	Good	10	08
9	Innovative ideas implemented by the department for overall academic development of students	Moderate (Needs Improvement)	10	07
10	Whether guided Research scholars?	Partial	5	03
<b>Total=</b>			<b>100</b>	<b>75</b>
Any additional comments/feedback/observations/advice which may or may not be based on above points: <b>Satisfactory</b>				

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

  
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