



## Metric No. 2.5.1

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**Mechanism of internal/ external assessment is transparent, and the grievance redressal system is time- bound and efficient.**

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**P.R. Pote Patil College of Engineering & Management, Amravati**

**Self-Study Report**



"Shri Gyanani Mahari Prasanna"

**P. R. Pote Patil Edu. & Welf. Trust's, Group of Institutions,  
College of Engineering & Management, Amravati**

Institute Code : 11E7

(Recognized by AICTE, New Delhi, Approved by Govt. of Maharashtra & Affiliated to SGBAU, Amravati)



- Kathora Road, Amravati, Maharashtra, India
- Ph. No. : +91-721-2970110, Fax No. : +91-721-2530089, Email : prpotepatilcollege@gmail.com
- Web. : www.prcem.org, www.papatilcollege.org

**2.5.1 Mechanism of internal/ external assessment is transparent, and the grievance redressal system is time- bound and efficient.**

## INDEX

S.N.	Description
1	Mechanism of internal/ external assessment
2	Mechanism to deal with internal/external examination related grievances



  
P. R. Pote  
P. R. Pote (Exam)  
College of Engineering & Management



**P. R. Pote Patil Edu. & Welf. Trust's, Group of Institutions,  
College of Engineering & Management, Amravati**

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**Mechanism of internal assessment is transparent and robust in terms of frequency and mode**

## INDEX

S N.	Description
1	Internal Evaluation Examination Policy of Institute
2	Subject assignments list year wise
3	List of faculties assigned to do University paper evaluation
4	List of External Practical examiners
5	Academic Calendar
6	Internal Exam Time table
7	Internal Lab Evaluation Sheets
8	Unit Test Question Paper
9	MCQ test.
10	Consolidated Internal Marks
11	Project Evaluation Sheets



  
Principal  
P. R. Pote Patil  
College of Engineering & Management  
Amravati



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## **EXAMINATION POLICY**

### **1. Preamble**

P. R. Pote (Patil) Welfare Trust's College of Engineering & Management, Amravati has, over the past three decades, been constantly endeavouring to train high quality scientific and technical man- power and provide solutions to a variety of challenging technological problems that may arise in different fields, through its well qualified faculty and highly skilled supporting staff, with the goal of becoming one of the leading centres of teaching, research and extension in Engineering and Technology and totally committed to excel in every sphere of its activity. It has been constantly encouraging scholarship, research, academic excellence, and innovation.

The Academic Council for this institute has been constituted as per the SGBAU guidelines to decide upon academic policies and academic activities from time to time. With the approval from Academic Council, the methodology for examination and evaluation of the programmes run by this institute is as under. Examination Committee is constituted as follows:

- a) Principal (Chairman)
- b) Dean (Academics)
- c) Examination Controller (Internal)
- d) IQAC Coordinator (Member)

### **OBJECTIVE:**

- To provide guidelines to students about examination related issues.
- To conduct CIE Examinations
- To conduct the examinations in a disciplined manner
- To maintain Quality in Assessment and timely declaration of Results.

### **SYSTEM OF EXAMINATION**

Semester wise performance assessment of every registered learner is to be carried out through various modes of examinations. These include Internal Assessment and End Semester Examination. Internal Assessment includes class tests, home assignments based

on live problems, course projects either in a group or individually. The modes of evaluation and distribution of weightage for each of the assessments is given in the syllabus manual of each programmes. Normally weightage of Internal Assessment and End Semester Examinations 20 and 80 percentages respectively in theory courses. In laboratory courses continuous assessment should be carried out and appropriate weightage should be given to each practical/assignment/course project and proper record of the same to be preserved by the concerned faculty for the purpose of inspection as and when required.

In semester pattern, the examination for theory and practical courses shall be conducted for duration of three hours (for End Sem Exam) and shall normally be during the month of November / December and April / May every year. In continuous evaluation system, Test examination is carried out for 1.15 hours per course after completion of required portion.

Performance in each course of study shall be evaluated based on

(i) Continuous internal assessment throughout the semester

(ii) End semester examination.

- Each course, both theory and practical (other than project work) shall be evaluated for a maximum of 100 marks. The project work shall be evaluated for a maximum of 200 marks.
- For all theory courses the continuous internal assessment will carry 20 marks while the End Semester examination will carry 80 marks.
- For all practical courses the continuous internal assessment will carry 25 marks while the End Semester examination will carry 25 marks.
- The project work shall be evaluated for a maximum of 200 marks. The continuous internal assessment will carry 100 marks while the end semester examination will carry 100 marks.
- Project work may be allotted to a single student for PG course and to a group of students not exceeding 4-5 per group for UG Course.
- For the end semester examinations in both theory and practical courses including project work, the external examiners shall be appointed by the affiliating University i.e. SGBAU.

### **CONTINUOUS INTERNAL EVALUATION (CIE) SCHEME**

The evaluation system adopted by the Institute has two components:

1. Continuous Internal Evaluation (CIE);
2. Semester End Examination (SEE)

The internal and university assessment structure for theory and practical courses of UG is as tabulated below.

<b>Continuous Internal Evaluation (CIE)</b>					<b>Semester End Examination (SEE) by University</b>	
Theory (20 Marks)			Practical (25 Marks)		Theory (80 Marks)	Practical (25 Marks)
Two Unit Tests	Choice-Based Component (CBC)	Attendance	Continuous evaluation	Comprehensive Test/viva	University Exam	Lab test/Viva etc.
<b>10</b>	<b>5</b>	<b>5</b>	<b>20</b>	<b>5</b>	<b>80</b>	<b>25</b>

The evaluation of the students is an integral part of the teaching-learning process. The Continuous Internal evaluation (CIE):

- Encourages the students to progress continuously in the semester leading to thorough understanding of the course.
- Allows teachers to evaluate the performance of their students in accordance with the course objectives.
- Enhances the students' abilities and skills such as creative and critical thinking, working in a team, communication skill, leadership abilities, etc.
- Distributes course work throughout the semester reducing stress on the students.

#### **Choice-based Component (CBC) of Internal Evaluation**

We adopted the Choice-based Components for the internal assessment of the theory subjects which are useful for evaluating the various abilities of the students which cannot be tested otherwise with the semester end examinations (SEE). The performance of all the students will be evaluated internally on a continuous basis by the concerned faculty member. The type of the choice-based component (CBC) of the assessment would be decided by the faculty member in consultation with the students based on the expected Course Outcomes (COs) and it would be announced in the class within the first fortnight of

the semester. The suggestive list of these components is as given below.

**List of Choice Based Components (CBCs) of Internal Evaluation:**

1	Surprise test	7	laboratory work
2	Open book Test	8	Case Study
3	Home Assignments	9	Group Discussions
4	Tutorials	10	Viva-voce/Oral Examination
5	Mini Project	11	Seminar
6	Periodical quizzes	12	Any other component that the teacher considers necessary for assessing the student's performance

**Attendance**

Attendance for all Theory, Tutorial, Practical, Seminar and Project/Dissertation is compulsory. As per the University Ordinance, 75 % attendance is compulsory for keeping the term.

**Modes of Assessment/Evaluation**

Modes of Evaluation for Theory Courses Various modes of assessment used for rating learners' performance in a theory course include Internal Assessment and End Semester Examination. Relative weightage for Internal Assessment is typically 20 per cent. This will consist of two test out of which two is compulsory class test and another is either a class test or assignment on live problems or course project in a group/individually. The end semester examination will be held as per the university schedule and the relative weightage for this would be 80 per cent. It is normally of 3 hours duration and will cover the full syllabus of the course. The end semester examination is mandatory. The grade for theory courses can be awarded only after successfully completion of both Internal Assessment and End Semester Examination of the respective course as per the curriculum manual of the respective programme.

**Modes of Evaluation for Laboratory Courses**

The assessment in a laboratory course will be based on regular supervision of the learner's work, her/his performance in viva-voce examinations, the quality of their work as prescribed through laboratory journals and an end semester test that contains performing an experiment if practical examination is mentioned. It is obligatory to maintain a laboratory journal as prescribed by the course instructor. Final submission/examination for laboratory courses will normally be held before the end

semester examination (final theory examinations). The grade for laboratory courses can be awarded only after successfully completion of Term Work, Practical and/or Oral examination as per the curriculum manual of the respective programme.

### **Modes of Evaluation for Seminars**

Seminars are evaluated based on a written report, and an oral presentation before a panel of examiners appointed by the University. The supervisor and/or co-supervisor, when involved, are part of the panel. The grade for Seminar can be awarded only after successfully completion of Term Work and Oral Presentation as per the curriculum manual of the respective programme. The evaluation of the seminars is completed before the commencement of the end semester examination.

### **Modes of Evaluation for Projects/Dissertation B.E. Project:**

U.G. Project-I and Project-II are separately graded, at the end of the respective semesters. These projects are supervised or guided and need regular interaction (at least once a week) with the supervisor/guide. Project group has to submit a project report and defend it in front of a panel of examiners. Panel of examiners for Project-I evaluation will be appointed by Head of Department/Institute, while as for Project-II evaluation will be conducted by pair of Internal and External examiners appointed by the University. The dates for submission of reports, the dates for presentations are to be scheduled as per the guidelines of the University and details of mode of assessment are given in the curriculum manual of respective programmes. Project is a part of term work; the project report will not be accepted if students fail to complete the project successfully. The grade for Project can be awarded only after successfully completion of Term Work and Oral Presentation as per the curriculum manual of the respective programme.

M. E. Dissertation: For evaluation of Dissertation-I, a learner has to submit the required number of copies of report to the respective department of affiliated Institute/ College as per the University academic calendar. Evaluation will be done, by a panel of examiners appointed by the head of Department / Institute, based on the report and presentation. The criteria of evaluation of Dissertation –I are given in the curriculum manual. The panel shall consist of the supervisor(s) and at least one or two more faculty member, to act as internal examiners.

Re -examination of Internal Assessment should be completed before the commencement of next semester theory examination. A learner who supposed to reappear for Internal Assessment will be given some work by the concerned teacher. The work assigned can be of the form of a course project/ assignment problems/ test/ tutorials etc. A learner will do the submission of the assigned work in the predefined period. Records should be maintained properly for all the re-examinations as well as Internal Assessments.



## CIE Rules & Guidelines

1. The teachers should inform the students about course curriculum, its objectives, course outcomes, learning activities such as experiential learning and participative learning at the beginning of each semester.
2. The teachers should also inform the students regarding different components of internal assessment and their weightages through a 'course overview'.
3. All the teachers should prepare their course plan carefully and should share it with the students within first week of the semester.
4. The teachers should evaluate the students continuously on the basis of performance in the two Unit Tests, Choice –Based Component (CBC) and Attendance of the students in the class.
5. The answer scripts of the Unit Tests should be shown to the students after evaluation for their information, providing sufficient transparency and accountability.
6. The pattern of question paper for the Unit Tests should be structured similar to the pattern of the Semester End Examination which is conducted by the University.
7. The teachers should evaluate the papers of the Unit Tests within three working days after the end of examination.
8. The relative marks/grades to be awarded for CBC by the respective teachers are as given below.
9. In relative grading system, the teacher should also take into account the various factors such as level of the question paper set, inherent difficulty of the course, the prerequisites to the course, relative performance of the current batch of the students compared to the earlier batches, participation of the students in active learning mode, etc.
10. The faculty members should display the grades/marks on the departmental notice board before submitting the same to the respective Head of the department.
11. The student may appeal for reviewing the grades/marks awarded by the teacher. If still there exists grievance regarding the revision of the awarded grades/marks, student may appeal to HOD.
12. In the case of student failing to complete the CBC under extraordinary circumstances such as the death of any member of the family, accident leading to hospitalization, suffering from contagious diseases, natural or social calamities affecting the student and such other situations which the teacher deems fit to be considered, the teacher would arrange additional assignment or any other course related work for such students.
13. The performance of the students in the practical subjects should also be evaluated on a continuous basis. Faculty members should use Continuous Evaluation Sheet provided for the assessment.
14. Internal evaluation of the final year Projects and Seminar should also be done on a

continuous basis.

15. Faculty members should maintain the proper records of CBC undertaken for each class.

16. Faculty members may offer more than one CBC in a class depending on the interest of the students.

### **The Powers and Duties of Examination Committee (EC):**

The Examination committee is at department level and reporting to the Dean (Academics).

The power and duties of examination committee are

- The EC shall ensure proper performance of the various duties in conducting examinations viz. paper setting, time table preparation, assessment and declaration of results.
- The EC shall recommend examination reforms and shall implement them after approval of academic council.
- The EC shall prepare the detailed time table of examinations as per the schedule approved by academic council/Dean (Academics).
- The EC shall arrange for strict vigilance during the conduct of examination so as to avoid use of unfair means by the students, faculty, and invigilators.
- Complaint Redressal Committee (CRC) shall be an independent committee consisting of three members appointed by Chairman, EC as and when required to deal with the complaints related to the conduct of examinations.
- The recommendations of the CRC shall be approved by Dean (Academics), EC to take appropriate disciplinary actions in the concerned matter. The disciplinary actions shall be endorsed by the EC.
- For any meeting of EC, one-third members shall constitute a quorum.
- The members of EC shall meet at least twice during the academic year and at other times as and when necessary.
- The various formats shall be prepared by EC for record keeping and monitoring all examination related activities.
- The EC shall perform such duties and responsibilities that are assigned by Academic Council of the institute from time to time.
- Examination Controller shall be assisted by the Assistant Controllers of Examination (ACE) for carrying out the following activities:

**Guidelines/Instructions to the Invigilators:**

The invigilators shall enter the examination hall at least 15 minutes before the start of examination. He/She shall,

- Ask the students to keep their books, notebooks, mobile phones and their written materials at the front of the hall/outside the hall. Enter correct seat numbers; use only blue ink for writing.
- Check whether the students have occupied their seats as per the seating arrangement.
- Distribute answer books to the students at least 10 minutes before the start of the examination and ask them to fill in correct details on the front page of the answer books,
- Distribute the question papers to the students at the beginning of the examination,
- Check the identity cards of the students and sign on their answer books, if all details are correct.
- Take the signature of students on the attendance proforma, mark "AB" for absent students and maintain the attendance record of his/her examination hall,
- Distribute the supplements, graph papers to the students as and when demanded by the students and maintain the record of supplements issued in the given proforma,
- Maintain general discipline in the classroom by frequently moving in the examination hall and preventing any malpractices or attempt of copying by students.
- Report cases of misbehaviour, indiscipline, malpractices and copying cases of students to the CE for further necessary action,
- Give warning to the students to tie their supplements, 10 minutes before the end of examination,
- Collect the answer books from the students at the end of examination and arrange them sequentially as per the examination seat numbers of students for each course separately,
- Hand over the answer books and filled in proforma to CE.

## 1. Policy for Internal Tests/Exams:

After commencement of the course, the Department will conduct two internal tests, scheduled in accordance with the Institute and Department calendar of events. Care will be taken such that the teaching of at least 2 to 2.5 units would be completed before each test. The entire exam schedule will be monitored by a Unit test (UT) Coordinator.

### Scheme for Assessment Tools and COs distribution

SN	Internal Assessment Tools (Theory)	Units	Internal Marks Distribution (20)
1	Unit Test-1	2	<b>Equal weightage for all internal assessment tools i.e.6.66 to each</b>
2	Unit Test-2	2	
3	Assignments (One)/CBS	2	

### Unit Test Question wise Mark Distribution

SN	Internal Assessment Tools (Theory)	Units	Q1.A	Q1.B	Q2.A	Q2. B	Q3.A	Q3. B	Q4. A	Q4. B
1	UT Marks distribution (30) per UT	2 per UT	7	8	7	8	7	8	7	8
2	Assignment/CBS Mark Distribution (30)	2	7	8	7	8	7	8	7	8
		<p><b>Unit Test-1: Q1. (CO1) OR Q2. (CO1) &amp; Q3. (CO2) OR Q4 (CO2)</b></p> <p><b>Unit Test-2:Q1. (CO3) OR Q2. (CO3) &amp; Q3. (CO4) OR Q4 (CO4)</b></p> <p><b>Assignment-1:Q1. (CO5) OR Q2. (CO5) &amp;Q3. (CO6) OR Q4 (CO6)</b></p> <p><b>Note: CO- Course Outcome based on Unit</b></p>								

**Marks Distribution Table**

<b>SN</b>	<b>Unit Test &amp; Assignment marks (Theory) (30) Range of Marks obtained by the Students</b>	<b>Actual Internal Marks Distribution (20)</b>
1	Marks between 28 to 30	20
2	Marks between 25 to 27	19
3	Marks between 22 to 24	18
4	Marks between 19 to 21	17
5	Marks between 16 to 18	16
6	Marks between 13 to 15	15
7	Marks between 12 to 14	14
8	Below 12 (Passing Marks are 12)	<b>Retest Corrective and Preventive Action (CAPA)</b>

- The Course owner will prepare the Question paper based on Revised Bloom's Taxonomy for the respective course and will be submitted for review and approval before DAC committee well in advance.
- The approved Question Paper along with scheme of evaluation will be submitted to the UT coordinator well in advance in a scheduled time as per exam timetable.
- The course owner will evaluate Answer Book as per given scheme and submit model answer to the Academic Coordinator.
- The student obtaining less than 40% of the maximum marks or below 12 in test examination will appear additional or improvement test (Retest) as scheduled by the Course owner.
- One Assignment based on remaining two units to be submitted by the students.

## 2. Policy for Continuous Assessment in the Laboratory:

### (A) Direct Internal Attainment:

Continuous evaluation is done by the faculty Incharge in every lab session for 15 marks and final internal practical test for 10 marks before University practical exam based on rubrics are shown in Table. The average marks of all session will be considered for awarding final internal assessment.

**Table 2.1.a Rubrics used for continuous Assessment in every lab session**

Parameters	Allocated Marks	High	Medium	Low
<b>Prelab test</b>	2	Student answered all the prelab questions and Objective of the experiment.	Student answered only few prelab questions and partial know objective of the experiment.	Student did not answer any prelab question and not aware about objective of the experiment
		2	1	0
<b>In-Lab performance</b>	5	Student performed or executed experiment, obtained results, and drawn conclusion fully as per expectation.	Student performed or executed experiment, obtained results, and drawn conclusion partially as per expectation.	Student performed or executed experiment, obtained results, and drawn conclusion below the expectation.
		5	4-3	2-1
<b>Post lab test</b>	3	Student answered the Post lab Viva voce questions and fully confirms the understanding of the experiments.	Student partially answered the Post lab Viva voce questions and partially confirms the understanding of the experiments.	Student did not answer the Post lab Viva voce questions and not confirms the understanding of the experiments.
		3	2-1	0
<b>Lab Record</b>	5	Records submitted by the Student found highly satisfactory after evaluation.	Records submitted by the Student found moderately satisfactory after evaluation.	Records submitted by the Student found highly dissatisfactory after evaluation.
		5	4-3	2-1
<b>Total Marks</b>	15 Marks (Continuous Assessment)			

**Table 2.1. b:Assessment Strategy: Rubrics use for Direct Internal continuous Assessment**

Parameters	Allocated Marks	High	Medium	Low
<b>Performance</b>	5	Students able to conduct the given experiment with desired output.	Student partially able to conduct the given experiment with desired output.	Student not able to conduct given experiment with desired output.
		5-4	3-1	0
<b>Viva Voce</b>	5	Student answered the Questions satisfactorily.	Student answered the Questions moderately satisfactorily.	Student did not answer the Questions.
		5-4	3-1	0
<b>Total marks</b>		<b>10 Marks (Internal Examination)</b>		
<b>Grand Total Marks</b>		Continues Assessment (15)+Internal Examination (10) =25 Marks		

**Table 2.1. c:Mapping Relation Between Rubrics and Course Outcomes for Direct Internal Attainment**

SN	Rubrics Parameters	Course Outcome
<b>A): Continuous evaluation in lab session</b>		
1	<b>Prelab test</b>	CO1, CO2, CO3, CO4, CO5, CO6 (All COs)
2	<b>In-Lab performance</b>	CO2, CO3, CO4, CO5, CO6 (Only COs where lab performance and not for study experiment)
3	<b>Post lab test</b>	CO1, CO2, CO3, CO4, CO5, CO6 (All COs)
4	<b>Lab Record</b>	CO1, CO2, CO3, CO4, CO5, CO6 (All COs)
<b>B): Internal Examination</b>		
1	<b>Performance</b>	CO1, CO2, CO3, CO4, CO5, CO6 (Only COs where lab performance and not for study experiment)
2	<b>Viva Voce</b>	CO1, CO2, CO3, CO4, CO5, CO6 (All COs)
	<b>Total Mapping</b>	Take sum of average of each CO for attending respective PO  <b>Set Target attainment:</b> <ul style="list-style-type: none"> <li>• <b>High:</b> 70% students scoring <math>\geq 60\%</math> average marks in Internal Lab Assessment</li> <li>• <b>Medium:</b> 60% students scoring <math>\geq 60\%</math> average marks in Internal Lab Assessment</li> <li>• <b>Low:</b> 50% students scoring <math>\geq 60\%</math> average marks in Internal Lab Assessment</li> </ul>

**(B) Direct External Attainment:**

**Set Target attainment:**

- **High:** 70% students scoring  $\geq 60\%$  average marks in External Lab Assessment
- **Medium:** 60% students scoring  $\geq 60\%$  average marks in External Lab Assessment
- **Low:** 50% students scoring  $\geq 60\%$  average marks in External Lab Assessment

**Overall Mapping = 50 % Internal Attainment (A) + 50 % External Attainment (B)**

**Note:**

- Each Lab subject should define their course outcomes and appropriate mapping with Program Outcomes.
- Rubric mentioned above can be used for Assessment occasion for calculation of Course Outcome (CO) attainment.
- Based on the Overall CO Attainment, POs can be mapped.
- Targets can be varying in increasing order year wise depending on full attainment. However, it can be maintained same in next year if targets are not achieved. Action taken to fill gaps between target and attainment to be workout.

**Indirect Attainment:**

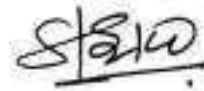
- Indirect survey of Lab course can be added to improve PO attainment.



(Dr. G. D. Dalvi)  
Dean (Academics)



(Dr. A. V. Kale)  
Principal



(Dr. S. B. Warkad)  
IQAC Coordinator





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## Department of Mechanical Engineering

### Semester wise subject assignment details for session 2021-22

Name of course	Course Owner	Date of Assignment	Topic of Assignment
<b>SEMESTER -III</b>			
3ME01 Mathematics-III	Dr.Wath	Dec. 2021	Unit V&VI
3ME02 Mechanics of Materials	Prof.P.K.Shivankar	Dec. 2022	Unit V&VI
3ME03 Fluid mechanics -	Prof.G.S.Mahalle	Dec. 2022	Unit V&VI
3ME04 Engineering Thermodynamics	Prof.P.B.Ingle	Dec. 2022	Unit V&VI
3ME05 Manufacturing Process-I	Dr.P.R.Wadnerkar	Dec. 2022	Unit V&VI
<b>SEMESTER -V</b>			
5ME01 MQC	Prof.S.Mendhe	Dec. 2022	Unit V&VI
5ME02 Heat Transfer	Prof.P.B.Ingle	Dec. 2022	Unit V&VI
5ME03 Measurement System	Prof.G.S.Mahalle	Dec. 2022	Unit V&VI
5ME04 KOM -I	Prof.S.P.Yeole	Dec. 2022	Unit V&VI
5FEME05 Power Plant Engineering	Prof.Y.D.Bansod	Dec. 2022	Unit V&VI
<b>SEMESTER -VII</b>			
7ME01 Machine Design & Drawing-II	Prof.P.K.Shivankar	Dec. 2022	Unit V&VI
7ME02 Energy Conversion –II	Prof.V.G.Gore	Dec. 2022	Unit V&VI
7ME03 Industrial Management and Costing	Dr.S.M.Tondre	Dec. 2022	Unit V&VI
7ME04 Automation Engineering	Prof.R.S.Pokale	Dec. 2022	Unit V&VI
7ME05 Mechatronics	Prof.M.G.Walecha	Dec. 2022	Unit V&VI
7ME05 Tool Engg	Prof.S.V.Mishra	Dec. 2022	Unit V&VI
<b>SEMESTER -IV</b>			
4ME01 Basic Electrical Driver & Control	Prof.A.D.Duchakke	May 2022	Unit V&VI
4ME02 Material Science	Prof.S.V.Mishra	May 2022	Unit V&VI
4ME03 Energy Conversion-I	Prof.Y.D.Bansod	May 2022	Unit V&VI
4ME04 Manufacturing Process-II	Dr.P.R.Wadnerkar	May 2022	Unit V&VI
4ME05 Hydraulics and Pneumatics	Prof.G.S.Mahalle	May 2022	Unit V&VI

<b>SEMESTER -VI</b>			
6ME01 Fluid Power-II	Prof.G.S.Mahalle	May 2022	Unit V&VI
6ME02 Computer Software Applications	Prof.S.V.Mishra	May 2022	Unit V&VI
6ME03 Control System Engineering	Prof.P.K.Shivankar	May 2022	Unit V&VI
6ME04 KOM –II	Prof.A.S.Shaikh	May 2022	Unit V&VI
6FEME05 Introduction to Python	Prof.Soni	May 2022	Unit V&VI
<b>SEMESTER -VIII</b>			
8ME01 Automobile Engg	Prof.P.B.Ingle	May 2022	Unit V&VI
8ME02 Refrig. And Air Conditioning	Prof.V.G.Gore	May 2022	Unit V&VI
8ME03 I.C. Engines	Prof.S.P.Yeole	May 2022	Unit V&VI
8ME03 Robotics	Prof.R.S.Pokale	May 2022	Unit V&VI
8ME04 Operations Research Techniques	Dr.S.M.Tondre	May 2022	Unit V&VI

  
 Dr. P. R. Wadnerkar  
 H.O.D. (N.D. Dept.)  
 DEPT. OF POLYMER TECHNOLOGY  
 Amravati.

# Copy of Assignment

<b>I N D E X</b>					
Name: <u>Shubham Vilas Chabakar</u>					
Std: <u>B.E. 4<sup>th</sup></u>		Div: <u>Mechanical</u>		Roll No: <u>Batch - 2021-22</u>	
Sub: <u>D.R.T. Assi. School / College: P.R.P.C.E.M.</u>					

Name: Shubham Vilas Chabakar

Assignment No: 1

Topic: Replacement and simulation

Q.1) The maintenance cost and resale value per year of a machine whose purchase price is Rs 7000 is given below:

Year	1	2	3	4	5	6	7	8
Maintenance cost (Rs)	900	1200	1600	2100	2800	3700	4700	5900
Resale Value (Rs)	4000	3000	2200	1600	1100	700	400	200

Find the optimum period for replacement.

⇒ purchase price (PP) is given 7000  
Resale value (RV) and maintenance cost (MC) are given. By using these values we prepare following table.

Here 'D' is Depreciation cost.

Year	PP - RV	MC	Sum of MC	Total cost (4) + (5)	Average TC (6) / (1)
(1)	(2)	(3)	(4)	(5)	(6)
1	3000	900	900	3900	3900
2	4000	1200	2100	6100	3050
3	4800	1600	3700	8500	2833.33
4	5400	2100	5800	11200	2800
5	5800	2800	8600	14400	2880
6	6000	3700	12300	18300	3050
7	6200	4700	17000	23200	3314.29
8	6400	5900	22900	29300	3662.5

Because average of total cost is minimum in the 5th year so machine should be change after 5th year.

Q.2) A company manufactures around 200 bicycles. Depending upon the availability of raw material and other conditions, the daily production has been varying from 196 bicycles to 204 bicycles. whose probability distribution is as given below?

Production	196	197	198	199	200	201	202	203	204
Probability	0.05	0.09	0.12	0.14	0.20	0.15	0.11	0.08	0.06

The finished bicycles are transported in a specially designed three storied lorry that can accommodate only 200 bicycles. using the following 14 random number 82, 89, 78, 25, 53, 61, 18, 45, 25, 50, 27, 27, 54 and 10. Simulate waiting in the factory.

- What will be the average number of bicycles waiting in the factory?
- What will be the number of empty spaces in the lorry?

⇒ The random number are established as in table below.

Production Per day	probability	Cumulative Probability	Random Number
196	0.05	0.05	00-44
197	0.09	0.14	05-13
198	0.12	0.26	14-25
199	0.14	0.40	26-39
200	0.20	0.60	40-59
201	0.15	0.75	60-74
202	0.11	0.86	75-85
203	0.08	0.94	86-93
204	0.06	1.00	94-99

Based on the 15 random numbers given we simulate the production per day as above in table below.

Day	Random number	Estimated production/day	Number of bicycle waiting				
			opening balance	current excess product	current short production	total waiting	no. of empty space in lorry
1	82	202	-	2	-	2	-
2	89	202	2	3	-	5	-
3	78	202	5	2	-	7	-
4	24	198	7	-	-	5	-
5	53	200	5	-	-	5	-
6	61	201	8	-	-	6	-

Column corresponding to the range against the demand value. These random numbers give the demand for cake next 10 days. Serial no. of these random numbers are shown in the parenthesis.

Number of cakes demanded in the next 10 days are

ii) The stock situation for various days if the decision is made to make 35 cakes everyday is given in the table below.

Day	Random number	Demand
1	48	35
2	73	25
3	9	15
4	51	35
5	56	35
6	77	35
7	15	15
8	19	15
9	61	35
10	9	15

Average daily demand

$$= \frac{35 + 25 + 15 + 35 + 35 + 35 + 15 + 15 + 35 + 15}{10}$$

$$= \frac{270}{10} = 27 \text{ cakes}$$

So average daily demand is 27 cake per day.

*Substitute*  
*AT*

Dr. P. R. Patil  
H. O. D. (N.E.D. Dept.)  
Department of Nutrition & Food Science  
Amravati

# Assignment



P. R. Pote (Patil) Education & Welfare Trust's, Group of Institutions, College  
of Engineering & Management, Amravati

*Department of Electrical Engineering*

Semester : IV Assignment on Unit 5 & 6

Sub: CS (4EP03)

Session: Even (2021-22)

Date of Assigning: 26/05/22

Date of Submission: 1/06/22

---

Q1 . Sketch the polar plot for type 1, type 2 and type 3 system. [L3, CO5, 7M]

Q2. Categorise various frequency response specifications. [L4, CO5 8M]

Q3 . Develop & sketch the Bode plot for a system with  $G(S)H(S) = \frac{80}{S(S+2)(S+20)}$

And determine, Gain cross over frequency, Phase cross over frequency,

Gain Margin and Phase margin [L6, CO5, 15M]

NAME :- Ritik Sunil Giradkar

Class :- EE 2<sup>nd</sup> year.

Roll No :- EEU2168.

Sub :- CS (control system)

(Assignment).

Assignment on Unit 5 and 6

Q-1 Sketch the polar plot for type 1 and type 2 and type 3 system.

\* Type 1 system

$$G(s)H(s) = \frac{1}{s(1+Ts)}$$

$$M = |G(j\omega)H(j\omega)| = \frac{1}{(\omega + j\omega)(1 + jT\omega)}$$

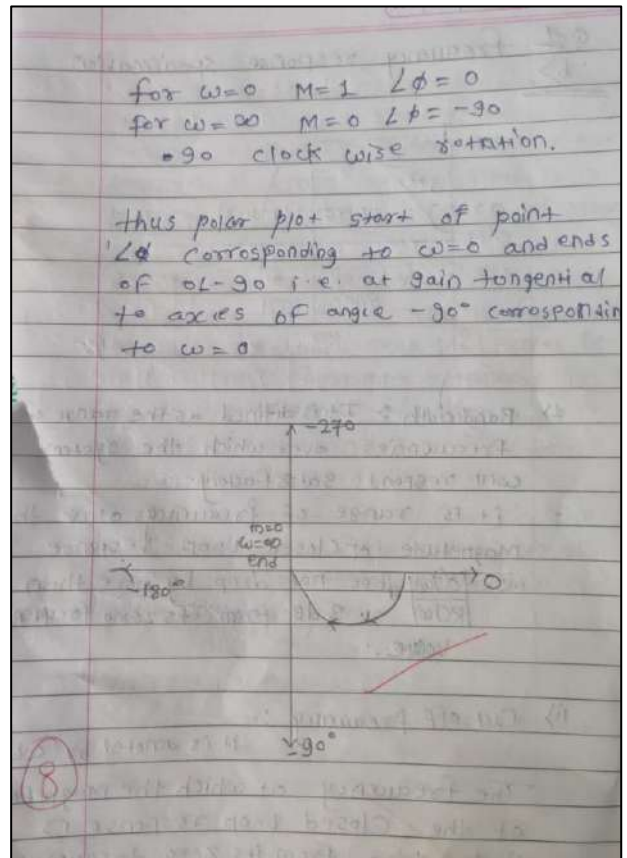
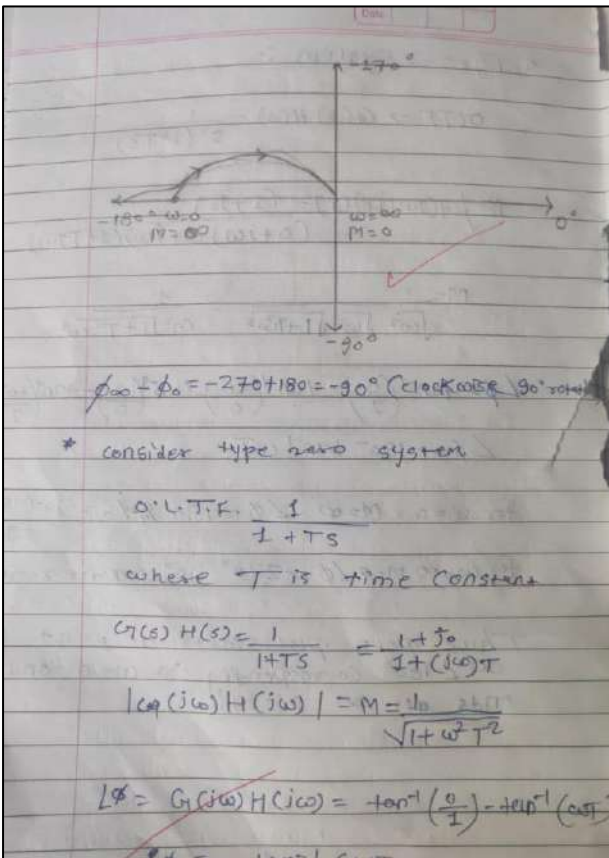
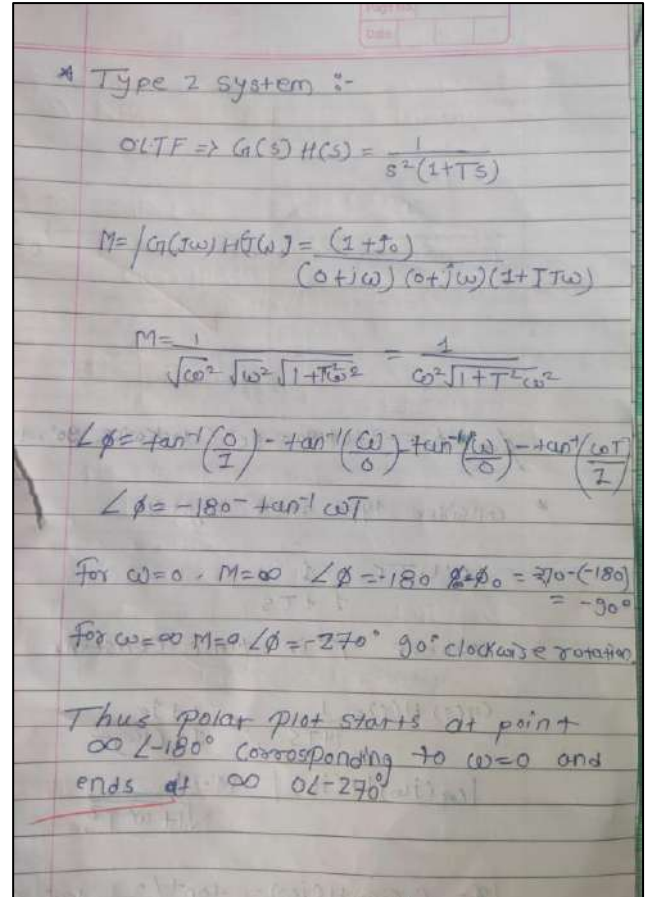
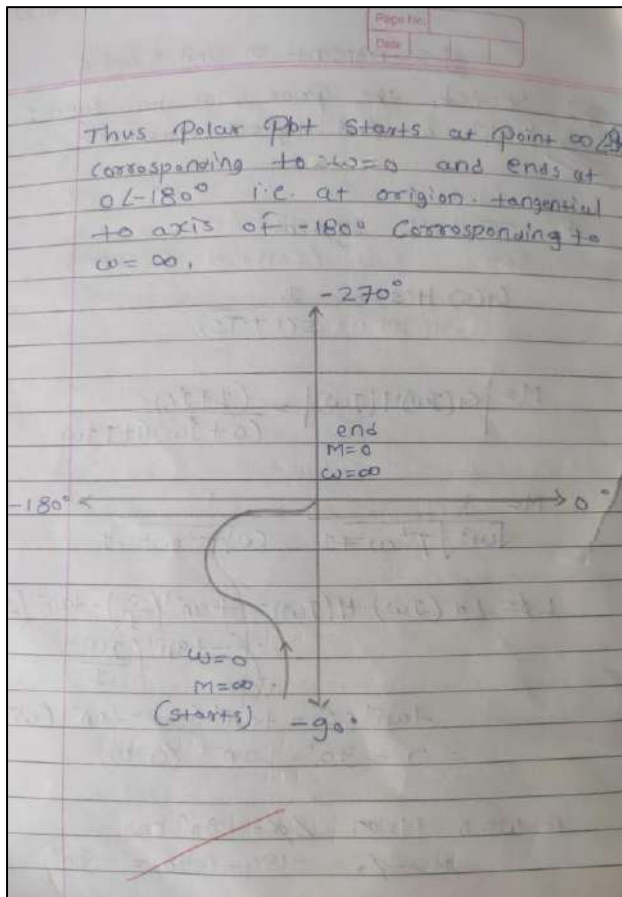
$$M = \frac{1}{\sqrt{\omega^2} \sqrt{T^2\omega^2 + 1}} = \frac{1}{\omega \sqrt{T^2\omega^2 + 1}}$$

$$\angle \phi = \angle G(j\omega) \cdot H(j\omega) = +\tan^{-1}\left(\frac{0}{1}\right) - \tan^{-1}\left(\frac{\omega}{0}\right) - \tan^{-1}\left(\frac{j\omega}{1}\right)$$
$$= 0 - 90^\circ - \tan^{-1}(\omega T)$$

$$\text{for } \omega = 0 \quad M = \infty \quad \angle \phi = -90^\circ \text{ (cs)}$$
$$\phi_{\infty} - \phi_0 = -180 - (-90) = -90^\circ$$

$$\text{for } \omega = \infty \quad M = 0 \quad \angle \phi = -180^\circ \text{ (k)} = 90^\circ \text{ Clockwise rotation.}$$





Q7 Frequency response specification

1) Bandwidth :- It is defined as the range of frequencies over which the system will respond satisfactorily.

- It is range of frequencies over the magnitude of closed loop response i.e.  $|G(j\omega)H(j\omega)|$  does not drop by more than 3 dB from its zero frequency value.

ii) Cut off frequency :- It is denoted by  $\omega_c$ .

The frequency at which the magnitude of the closed loop response is 3 dB down from its zero frequency value is called cut off frequency.

2) Resonant Peak ( $M_r$ ) :- It is the maximum value of the closed loop frequency response as shown. Larger the value of resonant peak more is the value of overshoot of system for step input. It is a measure of relative stability of system.

4) Resonant frequency ( $\omega_r$ ) :- The frequency at which resonant peak  $M_r$  occurs in closed loop frequency response is called resonant frequency. It is inversely proportional to rise time.

5) Gain cross over frequency ( $\omega_{gc}$ ) :- The frequency at which magnitude of  $G(j\omega)H(j\omega)$  is unity, i.e. called gain cross over frequency.

6) Gain Margin (GM) :- As seen earlier in the root locus as gain  $K$  increased the system stability reduces and for a certain value of  $K$  it become marginally stable. Gain margin is defined as the margin in gain allowable by which gain can be

increased till system reaches on the verge of instability.

$$GM = \frac{1}{|G(j\omega)H(j\omega)|_{\omega=\omega_{gc}}}$$

In decibels :-  $GM = 20 \log_{10} \frac{1}{|G(j\omega)H(j\omega)|_{\omega=\omega_{gc}}}$

$$GM = -20 \log_{10} |G(j\omega)H(j\omega)|_{\omega=\omega_{gc}}$$

More positive the GM, more stable in the system.

Q.2 sketch the bode Plot and determine GM, PM,  $\omega_{gc}$  and  $\omega_{pc}$  on stability.

$$G(s) = \frac{80}{s(s+2)(s+20)}$$

Soln: Arranging T.F. time constant form

$$G(s) = \frac{80}{s \times 2 \left(1 + \frac{s}{2}\right) \times 20 \left(1 + \frac{s}{20}\right)}$$

$$= \frac{2}{s(1+0.5s)(1+0.05s)}$$

2) Frequency form  $s = j\omega$ .

$$G(j\omega) = \frac{2 + j\omega}{(0 + j\omega)(1 + 0.05j\omega)}$$

8) factors are.

- 1)  $K=2$
- ii) one pole at origine.
- iii) simple pole  $\frac{1}{1+0.5s}$   $T_1 = 0.5$

iv) Simple Pole  $\frac{1}{1+0.05s}$   $T_2 = 0.05$   
 Now  $\omega_{c1} = \frac{1}{T_2} = 20 \text{ rad/sec}$

Make  $\omega_{c1} = 2$  and  $\omega_{c2} = 20$  on semi log paper with vertical dotted lines.

4) magnitude plot from eqn (i)

factor	Magnitude	corner freq	slope
1) Const + $K=2$	$20 \log K$ $20 \log 2$ $= 6.02 \text{ dB}$	-	$0 \text{ dB/d decade}$ i.e. a st. line of slope $0 \text{ dB/dec}$ from $6.02 \text{ dB}$
2 pole at origin i.e. $\frac{1}{s^2}$ written as $s^{-2}$	$+20 \text{ dB}$ $= (20 \cdot 1)$ $= 20 \text{ dB}$	-	$+20 \text{ dB}$ $= -20 (1)$ $= -20 \text{ dB/d}$
Addition of Magnitude $6.02 + 20 = 26.02 \text{ dB}$			Draw a line to $20 \text{ dB/d}$ starting from $26.02 \text{ dB}$ till your corner freq

5) Phase angle plot

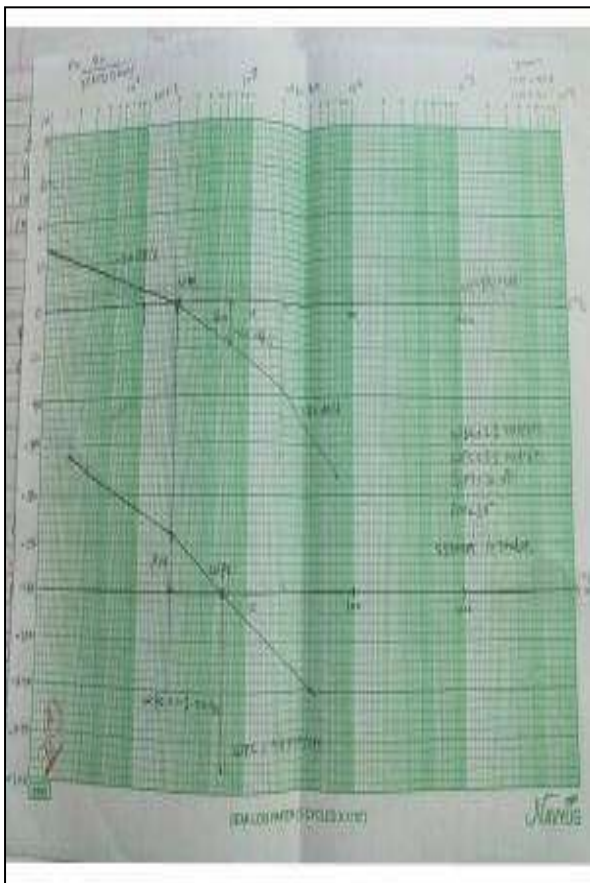
$\tan^{-1}(\frac{0}{2})$

$\angle \phi = -\tan^{-1}(\frac{\omega}{0.05}) - \tan^{-1}(0.5\omega) - \tan^{-1}(0.05\omega)$

$= -\tan^{-1}(\omega) - \tan^{-1}(0.5\omega) - \tan^{-1}(0.05\omega)$

$\angle \phi_R = -90^\circ - \tan^{-1}(0.5\omega) - \tan^{-1}(0.05\omega)$

simple pole	corner freq	asymptote	It's on constant
pole $(1+0.05s)^{-1}$	$\omega = \frac{1}{0.05} = 20 \text{ rad/sec}$	$\omega = 20 \text{ rad/sec}$	It's on constant from $\omega = 0$ to $\omega = 20$ . Resultant will be $-20 \text{ dB/d}$ from $\omega = 0$ to $\omega = 20$ .
simple pole $(1+0.05s)^{-1}$	$\omega = \frac{1}{0.05} = 20 \text{ rad/sec}$	$\omega = 20 \text{ rad/sec}$	It's on constant from $\omega = 20$ to $\omega = \infty$ . Resultant will be $-60 \text{ dB/d}$ from $\omega = 20$ onwards.



$\omega$	$\angle \phi_R$	$\omega$	$\angle \phi_R$
0	-90	0.2	-96.27
10	-105.25	2	-140
100	-257.54	10	-195.29
1000	-268.73	20	-219.28
		40	-240.58
		$\infty$	-270

6) Find  $\omega_{gc}$  and  $\omega_{pc}$  and find GM and PM.

$\omega_{gc} = 2.7 \text{ rad/sec}$

$\omega_{pc} = 6.3 \text{ rad/sec}$

GM = 21 dB

PM = +38°

∴ GM and PM, both positive system is stable.

A) 01/06/22



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## List of faculties assigned to do University paper evaluation

### Department of Mechanical Engineering

SR.NO.	NAME OF FACULTY	SEMESTER –IV AND COURSE NAME
1	Dr.P.R.Wadnerkar	4ME04 Manufacturing Process-II
2	Prof.G.S.Mahalle	4ME05 Hydraulics and Pneumatics
		<b>SEMESTER -VI</b>
3	Prof.A.S.Shaikh	6ME03 Control System Engineering
4	Prof.A.S.Shaikh	6ME04 KOM –II
		<b>SEMESTER -VIII</b>
5	Prof.R.S.Pokale	8ME03 Robotics
6	Dr.S.M.Tondre	8ME04 Operations Research Techniques

## university paper evaluation certificate

ST/SPV/CR-22/16-20/106 IN  
AU/CAH-1W/42/095

संत गाडगे बाबा अमरावती विद्यापीठ, अमरावती  
केन्द्रीय मूल्यांकन कार्यक्रम केन्द्र  
मूल्यांकन कार्याचे प्रमाण पत्र

प्रमाणित करण्यात येते की,

ज. डॉ/श्रीमती / ज. Dr. S.M.Tondre  
(महाविद्यालय) P.R.P.C.E.M.

ह्याचा परिक्षक म्हणून नियुक्त करण्यात आले होते.

त्यांनी मूल्यांकन पत्रावर उपस्थित राहून दिनांक 5/3/22 पासून दिनांक 13/02/22  
पर्यंत र्ग. Final Year विषय ORT एवढा १०  
उत्तरपत्रिकांच्या मूल्यांकनाचे काम केले.

दिनांक \_\_\_\_\_

मुख्य अधिकारी  
केन्द्रीय मूल्यांकन कार्यक्रम केन्द्र  
संत गाडगे बाबा अमरावती विद्यापीठ, अमरावती

एवढी या प्रामाण्ये  
चे स्वीकार करण्यात आले.

Dr.P.R.Wadnerkar  
H.O.D. (Mech. Dept.)  
P.R.Pote Patil Edu. & Welf. Trust's, Group of Institutions,  
Amravati.



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- Web. : www.prpcem.org, www.prpatilcollege.org

## List of External Practical examiners

### Department of Mechanical Engineering

Sr. No.	Name of Faculty	Semester	Course Name
1	Prof.R.S.Pokale	Sem VII, VIII	Automation Engg, Robotics
2.	Prof.S.S.Mendhe	V	Production Technology
3.	Prof. P.B.Ingle	III, V	Fluid Power-I, Engg Thermodynamics Heat transfer
4	Prof. V.G. Gore	III, VII	Fluid Power, EC-II
5	Prof.S.P.Yeole	V, VIII	Heat Transfer, IC Engine
6	Prof.G.S.Mahalle	III, VII	Fluid Power I, Energy Conversion-II
7	Prof.P.K. Shivankar	III, V, VII	Mechanics of Material, Production Technology, Machine Design and Drawing II
8	Prof. M.G. Walecha	V and IV	MDD, Production Technology

  
Dr. P. K. Shivankar  
H.O.D. (NOD. Dept.)  
DEPT. OF MECHANICAL ENGINEERING  
Amravati.

# Appointment Letter of External Examination



Sipna Shikshan Prasarak Mandal's  
**SIPNA COLLEGE OF ENGINEERING & TECHNOLOGY**  
Sipna campus, In front of Nemani Godown, Badaera Road, AMRAVATI.  
www.sipnaengg.ac.in Ph: (0721) 2522342, 2522342

No.CET/ADM/EXM/PRT/S - 2022/

Dated : 01/06/2022

## APPOINTMENT ORDER

To, Prof. R.S. Pokale  
P. R. Pokale (PRT) CoE  
Amravati

Subject: Appointment as an External Examiner for Practical Examination  
SUMMER - 2022.

Dear Sir/Madam,

I am directed by Sant Gadge Baba Amravati University, Amravati to inform you that you have been appointed as an External Examiner for Practical Examination SUMMER - 2022 as per following schedule.

Exam: VI Sem BE Mech

Branch: Mechanical Engg

Subject: CAD & Simulation

No. of Examinee: 20

Date: 07/06/2022

Time: 8:15 am

You are requested to inform your acceptance / rejection immediately to the undersigned.

Thanking you!

Yours faithfully

Principal  
Sipna College of Engineering & Technology,  
Amravati.

Departmental Practical Exam. I/C: Dr. G. D. Mandavgade Contact No:9881571731

Internal Examiner : A.M. Wankhede

Contact No: 9623446302



"Shri Gauran Mahari Prasanna"

## P. R. Pote Patil Edu. & Welf. Trust's, Group of Institutions, College of Engineering & Management, Amravati

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- Web. : www.prpcem.org, www.prapatilcollege.org

### Academic Calendar

P. R. Pote Patil College of Engineering & Management, Amravati

### ACADEMIC CALENDER (B. E.)

Academic Year 2021-22

Department of Mechanical Engineering

**ODD SEMESTER**

AUGUST 2021							Activity	Date/Duration
SUN	MON	TUE	WED	THU	FRI	SAT		
1	2	3	4	5	6	7	Display of Time Table	06-August-2021.
8	9	10	11	12	13	14	Commencements of Classes	10-August-2021.
15	16	17	18	19	20	21	Discussion about scheme of exam and syllabus	10-August-2021.
22	23	24	25	26	27	28	Forum Formation(Department Level)	30,31 August-2021.
29	30	31					Parents Meet-01	11 September-2021.
SEPTEMBER 2021								
SUN	MON	TUE	WED	THU	FRI	SAT		
			1	2	3	4	Feedback 1 (Department Level)	13 September-2021.
5	6	7	8	9	10	11	Final Year Seminar	26 to 30 Sept. 2021
12	13	14	15	16	17	18	Unit Test 1	23, 24, 25 Sept. 2021
19	20	21	22	23	24	25	Declaration of UT 1 Result	30 Sept. 2021
26	27	28	29	30			Class Test/ Assignments/Viva/Re-test	1-4 Oct. 2021
OCTOBER 2021								
SUN	MON	TUE	WED	THU	FRI	SAT		
					1	2	Project Review	7-9 Oct. 2021
3	4	5	6	7	8	9	Display of Provisional detention list	06 Oct. 2021
10	11	12	13	14	15	16	Parents Meet	09 Oct. 2021
17	18	19	20	21	22	23	Unit Test 2	28,29,30 Oct. 2021
24	25	26	27	28	29	30	Display of detention list	15 Nov. 2021
31							Declaration of UT 2 Result	15 Nov. 2021
NOVEMBER 2021								
SUN	MON	TUE	WED	THU	FRI	SAT		
	1	2	3	4	5	6	Final Feedback	18 Nov. 2021
7	8	9	10	11	12	13	Assignment & Practical Submission	06,07,08 Dec. 2021
14	15	16	17	18	19	20	Guidance Regarding Exam	09 Dec. 2021
21	22	23	24	25	26	27	Last day of Teaching	11 Dec. 2021
28	29	30					University Exam	Not.Finalised
DECEMBER 2021								
SUN	MON	TUE	WED	THU	FRI	SAT		
			1	2	3	4		
5	6	7	8	9	10	11		
12	13	14	15	16	17	18		
19	20	21	22	23	24	25		
26	27	28	29	30	31			

Dr. P. R. Wadnerkar  
 H.O.D. (No. Dept.)  
 Department of Mechanical Engineering  
 Amravati.



"Shri Gaganji Maharaj Pratishtha"

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**Academic Calendar 2018-19**

**F. R. Pote (Pate) College of Engineering and Management, Amravati**

DEPARTMENT: CIVIL Engineering	Year: 2018 - 2019												SEMESTER: ODD												For Staff and Students (24, 04, 79)	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	No. of teaching days	Days
Jan																									15	15
Feb																									13	13
Mar																									11	11
Apr																									9	9
May																									7	7
Jun																									5	5
Jul																									3	3
Aug																									1	1
Sep																									0	0
Oct																									0	0
Nov																									0	0
Dec																									0	0
1875 approval Approved by the State of Maharashtra Approved by the State of Maharashtra																										

ACAD-P-01, Rev: 09 Date: 21-08-2018

**F. R. Pote (Pate) College of Engineering and Management, Amravati**

DEPARTMENT: CIVIL Engineering	Year: 2018 - 2019												SEMESTER: EVEN												For Staff and Students (24, 04, 79)	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	No. of teaching days	Days
Jan																									15	15
Feb																									13	13
Mar																									11	11
Apr																									9	9
May																									7	7
Jun																									5	5
Jul																									3	3
Aug																									1	1
Sep																									0	0
Oct																									0	0
Nov																									0	0
Dec																									0	0
1875 approval Approved by the State of Maharashtra Approved by the State of Maharashtra																										

Total number of teaching days: 13+20+23+24+07=87

(Sd/-) H.O.D. (Civil Dept.)  
 H.O.D. (Civil Dept.)  
 F. R. Pote (Pate) College of Engineering & Management,  
 Amravati.

(Sd/-) P. R. Pote  
 (Pr. C. E. Mahajan)  
 P. R. Pote  
 College of Engineering & Management,  
 Amravati.

ACAD-P-01, Rev: 09 Date: 21-08-2018





"Shri Gyanaji Maharaj Prasasti"

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## Internal Exam Time Table

### Internal Exam Time Table

**P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions College  
Of Engg. & Management, Amravati  
Department of Civil Engineering  
Time Table (EVEN SEM- 2018-19)  
Unit Test-I**

Sr.No.	Semester	Exam.& Subject	Name of Internal	Name of External	Date of Practical Exam.	Time	Batch
1	8th Semester (Sec-A)	WRE-II	Prof. T. S. Junghare	Mr. V. K. Padghan Om Metal Infra Project PVT. LTD. Delhi	1-Jun-19	9.00 am	C1
					2-Jun-19	9.00 am	C2
2		EE-II	Prof. S. V. Pawar	Er..AshwinPawar A. P. Construction Sainagar Amravati	1-Jun-19	9.00 am	C2
					2-Jun-19	9.00 am	C1
3		Major Project	Prof. N. P. Bhopale Prof. S. V. Pawar Prof. M. S. Deshmukh	Prof. Rafat Ali Dr. A. V. Tiwari Prof. A. S. Attal	6-Jun-19	9.00 am	C1 & C2
1		6th Semester (Sec-A)	DSS	Prof. N. P. Bhopale	Prof. A. S. Attal, SIPNA College of Engg & Technology, Amravati	1-Jun-19	9.00 am
	2-Jun-19					9.00 am	C2
2	EE-I		Prof. M. S. Deshmukh	Prof. N. S. Waghmare Govt. Polytechnic, Khamgaon	1-Jun-19	9.00 am	C2
					2-Jun-19	9.00 am	C1
3	FM		Prof. C. S. Bidwaik	SayyadSabiudinShadab PRMIT. Badnera, Amravati	3-Jun-19	9.00 am	C1
					4-Jun-19	9.00 am	C2

4		Mini Project	Prof. R. D. Wadhai	Mr. Shivraj Tekade Director, Unicorn Construction	3-Jun-19	9.00 am	C2
					4-Jun-19	9.00 am	C1
1	4th Semester (Sec-A)	GT-I	Prof. S. V. Dhoke	Er. Laxman Pawade Amravati Municipal Corporation Amravati	7-Jun-19	9.00 am	C1
					8-Jun-19	9.00 am	C2
2		BPD-CAD	Prof. M. S. Deshmukh	Prof. A. S. Pande Sipna College of Engg. Amravati	7-Jun-19	9.00 am	C2
					8-Jun-19	9.00 am	C1
3		H. WRE	Prof. A. K. Chitkeshwar	Prof. A. S. Pand SIPNA College of Engg & Technology, Amravati	5-Jun-19	9.00 am	C1
					6-Jun-19	9.00 am	C2
4		SUR	Prof. M. A. Rehman	Prof. Vaibhav Fulari IBSS College, Amravati	5-Jun-19	9.00 am	C2
					6-Jun-19	9.00 am	C1

  
 H.D.D. (Civil Dept.)  
 P.R. Jone (Pune) College of Engg & Management  
 Amravati.



"Shri Gyanaji Maharaj Prasaad"

**P. R. Pote Patil Edu. & Welf. Trust's, Group of Institutions,**  
**College of Engineering & Management, Amravati** Institute Code : 1187  
(Recognized by AICTE, New Delhi, Approved by Govt. of Maharashtra & Affiliated to SGBAU, Amravati)



■ Kathora Road, Amravati, Maharashtra, India  
■ Ph. No. : +91-721-2970110, Fax No. : +91-721-2530089, Email : prpotepatilcollege@gmail.com  
■ Web. : www.prpceem.org, www.prpateilcollege.org

## Sample Internal Question Paper with Scheme & Key

<b>P. R. Pote (Patil) Education &amp; Welfare Trust's Group of Institutions</b>		
<b>College of Engineering &amp; Management, Amravati</b>		
<b>Department of Electrical Engineering</b>		
B.E. 4th Year (Sem: 7th) -2021	<b>Unit Test-II</b>	<b>Sub: PSOC(7EP02)</b>
<b>Max. Marks:- 30</b>		<b>Max. Time:- 1 hr. 30 min</b>

### Instructions to Candidate:

- 1) Answer ONE question from Section-A & ONE question from Section-B
- 2) Figures to the right indicate the full marks.
- 3) Illustrate your answer whenever necessary with the help of neat sketches.

### SECTION-A

- Q1.A** Explain the excitation system and its basic requirement. Elaborate the components of excitation system with a net diagram (CO3,L2,7M)
- Q1.B** With a elaborative sketch, explain the brushless AVR lop. (CO3,L2,8M)
- OR**
- Q2.A** Draw the AVR root locus and discuss the stability compensation technique for the same (CO3,L5,7M)
- Q2.B** Derive and formulate transfer function of AVR loop (CO3,L5,7M)

### SECTION-B

- Q3.A** Explain various components of ALFC loop with its simplified functional diagram (CO4,L2,7M)
- Q3.B** Derive and formulate transfer function of open AVR loop (CO4,L5,8M)
- Q4.A** Explain static response of speed governor (CO4,L2,7M)
- Q4.B** Explain closing of ALFC loop (CO4,L2,8M)

Unit Test II

**Class and Section:** VII Semester

**Subject with Code:**7EP02

**Max. Marks :**30

Q.No.	SCHEME	MARKS	COs
1(a)	Requirements of excitation system	1	3
	Block diagram	2	
	Description of components	4	
1(b)	Block diagram of AVR Loop	2	
	Explanation	6	
2(a)	Sketch of AVR root locus	2	3
	Comments on stability	2	
	Compensation applied to make it stable	3	
2(b)	Deriving transfer function of individual components	5	
	Combining the blocks	2	
	Overall transfer function	1	
3(a)	List of components	1	4
	Block diagram of ALFC	3	
	Description of components	3	
3(b)	Deriving transfer function of individual components	3	
	Combining the blocks	3	
	Overall transfer function	2	
4(a)	Considering three cases for static response	3	4
	Explanation of static response in each case	4	
4(b)	Explanation of component to be added for closing ALFC	3	4
	Deriving the component transfer function	2	
	Closing the ALFC	3	

**Course Owner:** Prof.P.R.Rane

*Rane*

# Model Answer Sheet

## P. R. POTE (PATIL) GROUP OF INSTITUTIONS COLLEGE OF ENGINEERING & MANAGEMENT, AMRAVATI

Name of Student: Model Answer Sheet

Semester VII Branch/Section \_\_\_\_\_ Roll No. \_\_\_\_\_

Subject PSOC Unit Test No. II Date \_\_\_\_\_

MARKS OBTAINED			
Q.No.	Marks Obtained	Q.No.	Marks Obtained
1.		7.	
2.		8.	
3.		9.	
4.		10.	
5.		11.	
6.		12.	
Total			
Out of			
Signature			

Note : Write on both the sides of the cover page.

Q1 A]

Basic requirements of excitation system

Elements of Excitation System

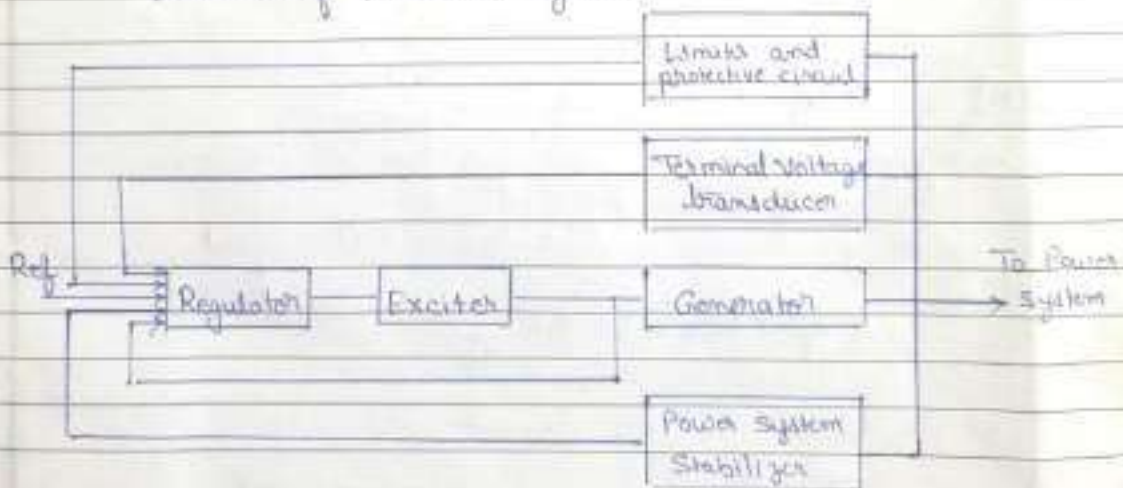


Fig: Functional block dig. of sync generator excitation control

Explanation of components

[5M]

- i) Exciter
- ii) Regulator
- iii) Terminal Voltage Transducer
- iv) Power System Stabilizer
- v) Limiter and protective circuit

Q1A] Brushless excitation for AVR loop.

Explanation and Need.

Basic components

Diagram

Explanation.

Q2A] AVR Root locus.

$$\text{O.L.T.F of AVR} = \frac{K}{(1+sT_A)(1+sT_e)(1+sT'd_0)}$$

$$\text{Poles of T.F are } s_1 = -\frac{1}{T_A}$$

$$s_2 = -\frac{1}{T_e}$$

$$s_3 = -\frac{1}{T'd_0}$$

$$T'd_0 > T_e > T_A$$

$$s_3 < s_2 < s_1$$

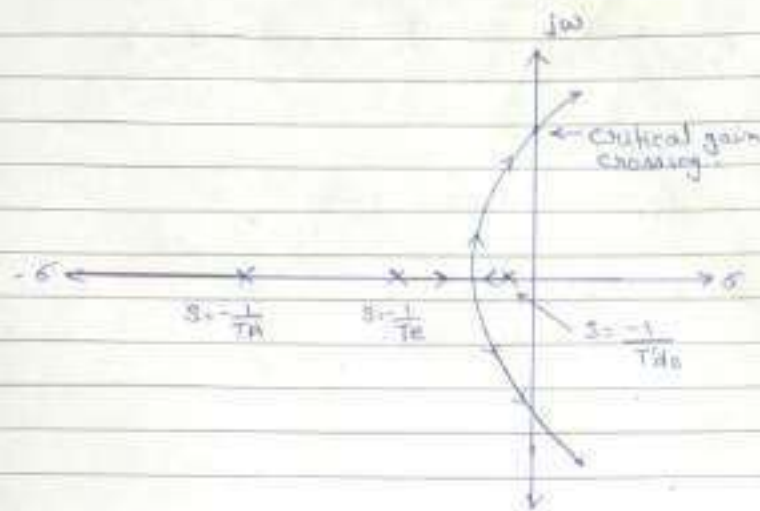


Fig: Root loci of AVR loop

with increase in gain  $K$ , the root locus moves towards unstable region. This makes the AVR loop unstable, which is not desired.

Stability compensation :- Addition of series phase lead compensator having T.F  
 $G_c = 1 + sT_c$

$$\text{T.F. of AVR} \rightarrow G(s) = \frac{K(1+sT_c)}{(1+sT_A)(1+sT_E)(1+sT'd_0)}$$

$$T_c = T_e, \quad G(s) = \frac{K}{(1+sT_A)(1+sT'd_0)}$$

System with two poles, Hence the AVR loop becomes absolutely stable

Q.28] Transfer function of all components of AVR loop

i) Comparator

$$\Delta V_{ref} = \Delta V_{ref}(s) = \Delta e(s)$$

ii) Amplifier

$$\Delta V_R = K_A \cdot \Delta e$$

iii) Exciter  $G(s) = \frac{K_E}{1 + sT_e}$

iv) Generator  $G(s) = \frac{K_G}{1 + sT_{do}}$

Combining all T.F., the overall model of AVR is



Overall O.L.T.F

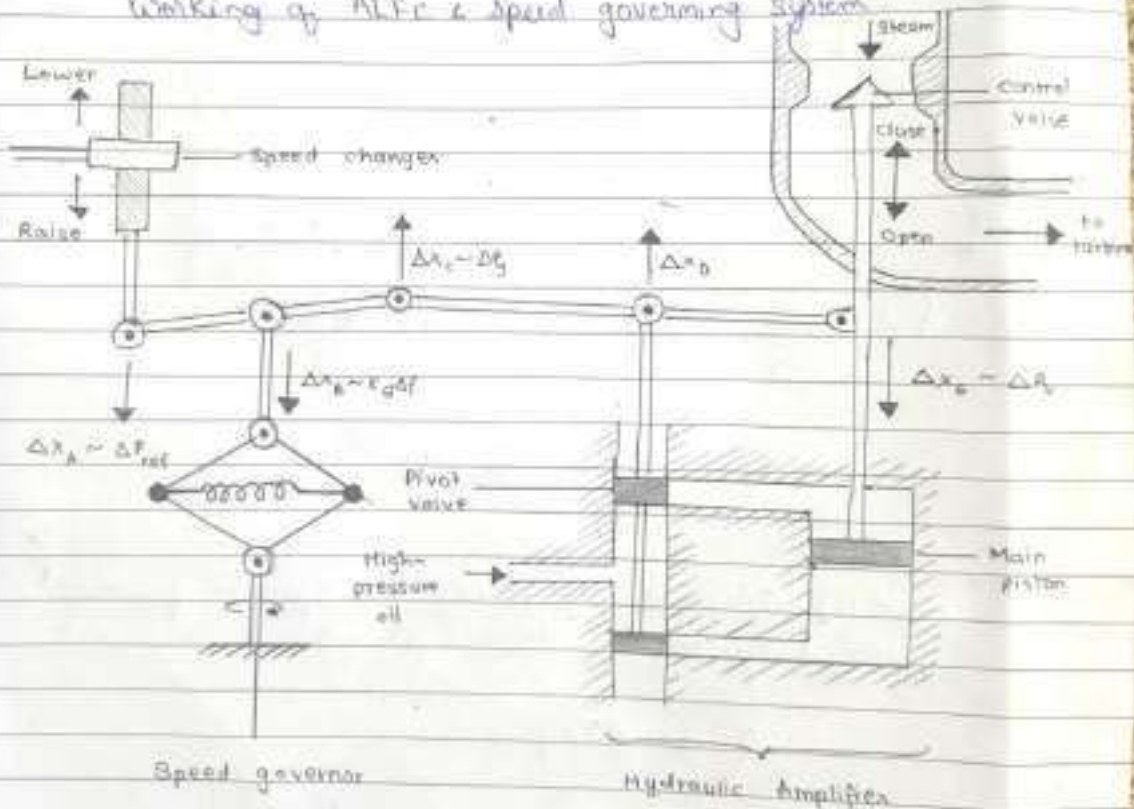
$$G(s)H(s) = \frac{K}{(1+sT_A)(1+sT_e)(1+sT_{do})}$$



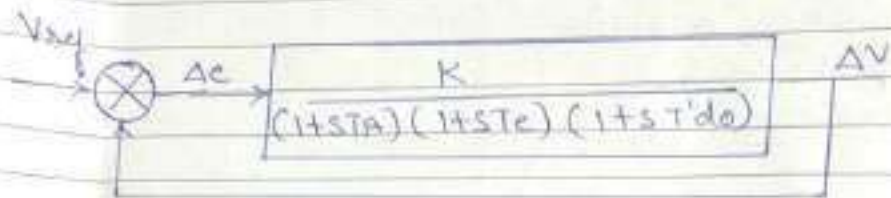
Q3A) components of ALC  
 Block diagram of ALC  
 Description of components

- i) Hydraulic Amplifier
- ii) Linkage Mechanism
- iii) Speed Governor
- iv) Steam changes

Working of ALC & speed governing system



Q 3 b] Deriving transfer function of each component  
combining the TF blocks



Overall TF of AVR

Q 4 A] Static performance of Speed Governor

For static performance  $s \rightarrow 0$  therefore  
 $G_H(s) = G_T(s) = 1$

$$\Delta P_{T0} = \Delta P_{ref} - \frac{1}{R} \Delta f_0$$

case A] Generator synchronized to system of  
very large size, then  $\Delta F = 0$

$$\Delta P_{T0} = \Delta P_{ref}$$

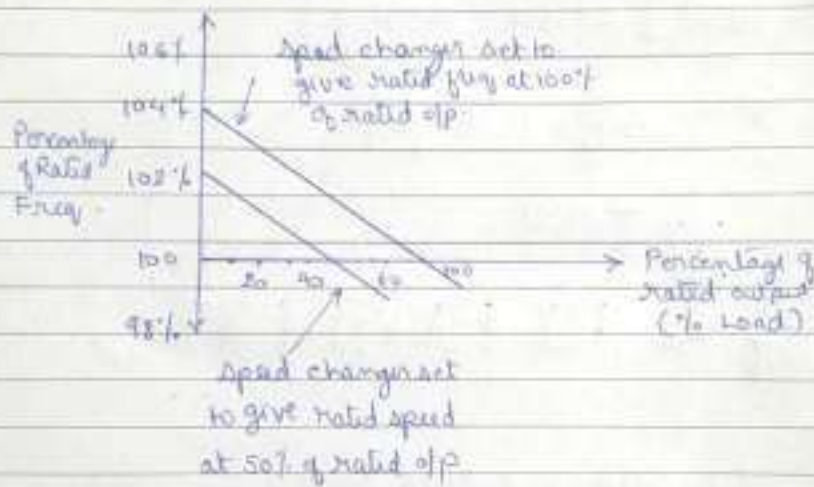
Turbine power is directly changed by changing  
reference setting.

Q4 A For a Finite Network  $\Delta P_{inj} = 0$

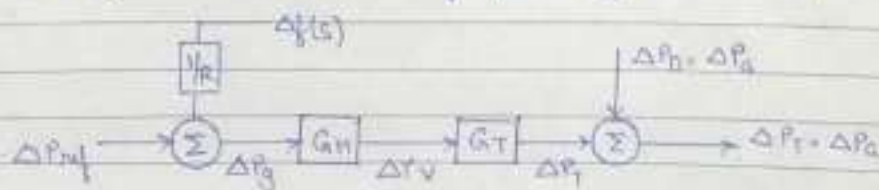
$$\therefore \Delta P_{T0} = -\frac{1}{R} \Delta f_0$$

change in turbine power is proportional to freq. drop.

Case c: General case



Q4 B] Linear model of primary ALFC loop



Assumptions about lumped area.

$$\Delta P_T = \Delta P_D + \frac{d}{dF} (W_{km}) + D \Delta F$$

solving it to get  $\Delta f(s)$ , we get

$$\Delta f(s) = \frac{1}{D} \left[ \frac{\Delta P_T(s) - \Delta P_D(s)}{1 + \frac{s T_d}{f^* D}} \right]$$

$$\Delta f(s) = G_p(s) [\Delta P_T(s) - \Delta P_D(s)]$$

where  $G_p(s) = \frac{K_p}{1 + s T_d}$      $T_p = \frac{2H}{f^* D}$     &  $K_p = \frac{1}{D}$

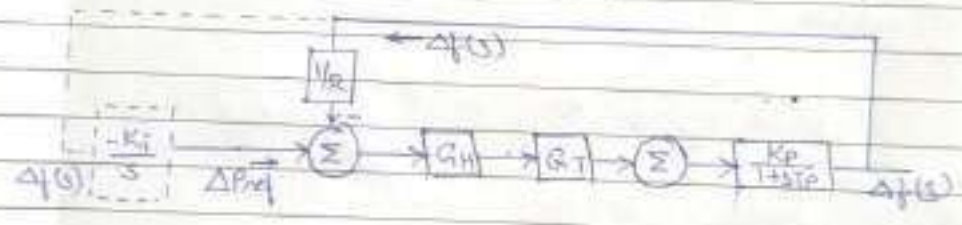


Fig. closing of ALFC loop

Pranshu

## MCQ Test

Class Test I # CMPSA # Unit I

Questions Responses 00 Settings Total points: 20

**P. R. Pote (Patil) Education and Welfare Trust's**  
**College of Engineering & Management**  
Approved by AICTE, Affiliated to SGBAU DTE Code 1107

**Class Test I # CMPSA # Unit I**

Session: 2021-22 Semester: 7th

Email\*

Valid email

Name of students\*

Roll No.\*

Name of College\*

\* Required

Email\*

Your email

Name of students\*

Your answer

Roll No.\*

Your answer

Name of College\*

Choose

1] Load can be represented by .....\*

Constant power representation

Constant impedance representation

Constant current representation

All of the above

2] For constant current representation, the P-V characteristics is

Parabolic

Hyperbolic

Linear

Non linear

3] For constant current representation, the  $P$  is directly proportional to\*

- Current
- Voltage
- Resistance
- Admittance

4] At a typical bus, which type of load consist of minimum load requirement\*

- Induction motor load
- Heating & lighting load
- Synchronous motor load
- Any of the above

5] For tap changing transformer, tap Ratio is\*

- Imaginary number
- Real number

6] Taps are generally provided on .....side of transformer\*

- L.V. side
- H. V. side

7] When the turns ratio,  $N$  is not equal to the ratio of rated voltages , then the transformer is called as\*

- Nominal turns ratio
- Off nominal turns ratio

8] for phase shifting transformer , turns ratio is always \*

- Real number
- Complex number

9] Phase shifting transformer is used to control\*

- Real power flowing through transmission line
- Reactive power
- Apparent power
- All of the above

10] The amount of phase angle depends upon\*

- Tap position
- Loop position
- Any of the above

11] In synchronous machines, direct axis is\*

- Along the centerline of pole
- Lead quadrature axis by 90 degree
- Lag quadrature axis by 90 degree
- Lead quadrature axis by 120 degree

12] Length limit for short transmission line is 100km or less\*

- True
- False

13] In the representation of short transmission line , the effect of capacitance is neglected\*

- True
- False

14] In the representation of short transmission line , it is necessary to find the relationship between Voltage for sending end and receiving end Voltage & current for sending end and receiving end Current for sending end and receiving end None of the above\*

Voltage for sending end and receiving end  
Voltage & current for sending end and receiving end  
Current for sending end and receiving end  
None of the above

15]In transmission line , resistance , inductance and capacitance are not uniformly distributed\*  
True  
False

16]Which of the following transmission line have more initial cost?\*  
Overhead Transmission  
Underground transmission  
Both have almost the same initial cost  
None of the above

17]In long transmission line , resistance and capacitance parameters of lines are connected in ...\*  
Series ,shunt  
Series ,series  
Shunt ,shunt  
Shunt ,parallel

18]Which of the following materials are not used for the transmission and distribution of electrical power?Copper\*  
Copper  
Aluminum  
Tungsten  
Steel

19]Impedance and capacitance of a transmission line depend upon\*  
Current in the line alone  
b) Voltage in the line alone  
c) Both (a) and (b)  
d) Physical configuration of conductors in space

20]The propagation constant of transmission line with impedance and admittance of 9 and 16 respectively is....\*  
25  
144  
12  
None of the above

 Insights

Average

15.4 / 20 points

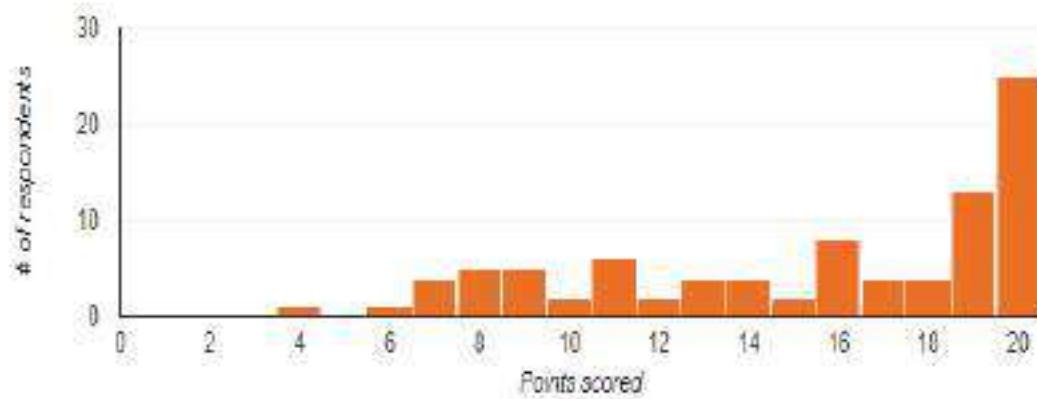
Median

17 / 20 points

Range

4 - 20 points

Total points distribution





## Internal Marks Analysis (Theory)

<b>P. R. Pote (Patil) College of Engineering &amp; Management, Amravati</b>						
<b>Department of Electrical Engineering</b>						
<b>Session :2021-22 (Even Sem)</b>						
<b>2nd year</b>						
<b>Subject: Numerical Methods &amp; Optimization Technique (Even Sem)</b>						
<b>INTERNAL MARKS ANALYSIS</b>						
<b>Name of Subjects</b>		<b>UT-I</b>	<b>UT-II</b>	<b>ASSIGNMENT</b>	<b>Average</b>	<b>TOTAL</b>
<b>Roll. No.</b>	<b>Name of Student</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>20</b>
EEU2001	Ku. Gayatri Pramodrao Alone	19	23	28	23	18
EEU2002	Ku. Harsha Sudhir Kadu	17	4	28	16	16
EEU2003	Ku. Harshada Manohar Gondekar	21	4	26	17	16
EEU2004	Ku. Kalyani Rajendra Deshmukh	12	10	27	16	16
EEU2005	Ku. Manasvi Suhas Khurpade	12	20	27	20	17
EEU2006	Ku. Mayuri Gangadhar Bagde	12	21	29	21	17
EEU2007	Ku. Namrata Dadarao Ghuse	18	20	28	22	18
EEU2008	Ku. Neha Vitthal Nikole	21	16	27	21	17
EEU2009	Ku. Pradnya Ganesh Atote	12	2	25	13	15
EEU2010	Ku. Punam Dnyaneshwar Khatke	13	22	28	21	17
EEU2011	Ku. Sanjivani Raju Jadiye	7	3	25	12	14
EEU2012	Ku. Sanyukta Prakashrao Padole	21	28	30	26	19
EEU2013	Ku. Sejal Dipak Pande	14	22	28	21	17
EEU2014	Ku. Shraddha Dilip Ganjare	13	13	27	18	16
EEU2015	Ku. Sneha Vinod Sadanshiv	23	10	27	20	16
EEU2016	Ku. Snehal Gulde	15	27	29	24	18
EEU2017	Ku. Takshashila Omprakash Bhagat	27	20	30	26	19

EEU2018	Ku. Vaishnavi Dilip Makode	13	17	28	19	17
EEU2019	Abhijit Prakash Khillare	14	5	27	15	15
EEU2020	Akshay Suresh Chaudhari	16	5	27	16	16
EEU2021	Amit Dadarao Gosavi	24	14	26	21	17
EEU2022	Angira Kiran Manwar	20	12	25	19	15
EEU2023	Ayush Satishrao Sambhare	24	13	27	21	17
EEU2024	Chaitanya Ashokrao Khatdev	22	21	28	24	18
EEU2025	Chaitanya Narendra Khajone	23	28	30	27	19
EEU2026	Devendra Haribhau Ade	14	14	27	18	16
EEU2027	Harshad Pandit Rathod	24	14	28	22	18
EEU2028	Mayur Gajanan Mankar	14	6	27	16	16
EEU2029	Mayur Narendra Sawarkar	24	22	28	25	19
EEU2030	Navin Dhanraj Vanjari	16	10	27	18	16
EEU2031	Prajwal Jagdish Alone	5	10	26	14	14
EEU2032	Pranit Prakashrao Parde	14	12	26	17	16
EEU2033	Prathmesh Divakar Malve	16	15	26	19	14
EEU2034	Ritesh Hiralala Gade	17	12	27	19	17
EEU2035	Rohit Ganesh Kedar	15	8	27	17	16
EEU2036	Roshan Ingale	22	18	29	17	16
EEU2037	Rushikesh Dinesh Bagade	13	18	27	13	14
EEU2038	Sachin Suresh Rathod	17	7	28	17	16
EEU2039	Shrikant Rajendrarao Fale	0	0	27	9	12
EEU2040	Shubham Dilip Ghule	24	2	27	18	16
EEU2041	Tushar Satish Hote	22	3	26	17	16
EEU2042	Yash Tukaram Chafale	14	13	27	18	14
EEU2143	Ku. Bhavana Ravindra Zatale	26	29	30	28	20

EEU2144	Supriya Vilas Marodkar	22	29	30	27	19
EEU2145	Ku. Esha Juware	15	16	26	19	17
EEU2146	Ku. Ishwari Pramod Wankhade	23	12	28	21	17
EEU2147	Ku. Kalyani Mohan Wankhade	23	17	28	23	18
EEU2148	Ku. Komal Rajendra Sadanshiv	16	20	29	22	18
EEU2149	Ku. Prachita Vijendra Rokade	13	16	28	19	17
EEU2150	Ku. Rutuja Anil Ikhe	22	22	27	24	18
EEU2151	Ku. Rutuja Ganesh Lohakare	23	20	30	24	18
EEU2152	Ku. Rutuja Vikas Dahikar	15	14	28	19	17
EEU2153	Ku. Shivani Sanjay Shahu	28	17	29	25	19
EEU2154	Ku. Srushti Satish Atram	19	30	30	26	19
EEU2155	Ku. Yigeshwari Ajay Parage	14	26	30	23	18
EEU2156	Ku.Shreya Bhanudas Mehare	16	5	27	16	16
EEU2157	Badal Deorao Pawar	6	15	27	16	16
EEU2158	Harshad Jayendrarao Savale	13	20	28	20	17
EEU2159	Hemant Purushottam Mundane	14	17	29	20	17
EEU2160	Jayash Gajanan Baraskar	20	15	27	21	16
EEU2161	Kuldip Bandupant Bhokse	23	28	30	27	19
EEU2162	Nikhil Nandkishor Pawar	23	24	28	25	19
EEU2163	Niraj Kailas Bhise	10	14	28	17	16
EEU2164	Pawan Champalal Dhanderwal	17	8	27	17	16
EEU2165	Piyush Pradip Olambe	6	7	27	13	15
EEU2166	Pradyumn Rajendra Solanke	17	0	25	14	14
EEU2167	Prem Sunil Kotwar	14	7	26	16	16
EEU2168	Ritik Sunil Giradkar	20	15	27	21	17
EEU2169	Sarthak Pandurang Dhansande	29	15	28	24	18

EEU2170	Shreyash Anil Meshram	29	28	30	29	20
EEU2171	Chanchal Shantaram Sadafale	19	15	28	21	17

  
**H.O.D. (Elect. Dept.)**  
**P.R. Pote (Patil) College of Engg. & Management**  
**Amravati.**

HoD

## Internal Marks Lab Evaluation Sheet

**P. R. POTE (PATIL) WELFARE & EDUCATION TRUST'S COLLEGE OF  
ENGINEERING & MANAGEMENT, AMRAVATI**

Department of Mechanical Engg.

Year: Second

Sem:IV

Session: 2021-22

**Practical Internal Marks Assessment**

Name of Subject :- 4ME03-MT			Practical Internal marksheet			
Sr. No.	UT/Seat No.	Name of Student	Job	Journal	Attendance	Total
			15	6	6	25
1	21BK310739	Aakash Prakash Narete	11	5	4	20
2	21BK310740	Aashay Dnyaneshwar Korde	14	5	4	23
3	21BK310741	Abhijit Arvind Ingle	14	5	4	23
4	21BK310742	Abhijit Rajendra Matre	14	5	4	23
5	21BK310743	Abhishek Pravin Diware	14	5	4	23
6	21BK310744	Ahzam Aminulla Khan	13	5	4	22
7	21BK310745	Ajay Narayan Dhaware	12	5	5	22
8	21BK310746	ali Imran mohammed ali	14	5	4	23
9	21BK310747	Aman Digambar Chavan	14	5	4	23
10	21BK310748	Amit Raosaheb Sirsath	14	4	4	22
11	21BK310749	Amit Vinod Umak	13	5	4	22
12	21BK310750	Aniket Ajabrao Masodkar	13	4	5	22
13	21BK310751	Anurag Dilip Isapure	13	5	5	23
14	21BK310752	Arpit Prafull Shirbhate	13	5	4	22
15	21BK310753	Bhushan Ashokrao Pote	13	5	5	23
16	21BK310754	Bhushan Dilip Pakhare	14	4	5	23
17	21BK310755	Bhushan Gajanan Giri	13	5	5	23
18	21BK310756	Bhushan narendrarao vairale	13	5	5	23
19	21BK310757	Faisal Khan	13	3	3	19
20	21BK310758	Harsh Pramodrao Surse	13	5	4	22
21	21BK310759	Hema Moreshawar Gawhale	14	4	4	22
22	21BK310760	Jay Sachin Yadav	13	5	5	23
23	21BK310761	Kajal Kishor Maliye	13	5	4	22
24	21BK310762	M Noman	13	4	5	22
25	21BK310763	Mandar Mahendra Gedam	13	5	5	23
26	21BK310764	Mustakim Alfes Yakub Shah	13	5	4	22
27	21BK310765	Nikhil Sharangdhar Kale	14	4	4	22
28	21BK310766	NOMAN NASIR KHAN	13	5	5	23
29	21BK310767	Prachi Prakash Pathare	13	5	5	23
30	21BK310768	Prajwal Hiralal Gadling	13	5	5	23
31	21BK310769	Pratham Prashant Pethe	13	5	5	23
32	21BK310770	Pratik Vinod Shelke	13	5	4	22
33	21BK310771	Raj Pramod Naggure	13	5	5	23
34	21BK310772	Ramsing Khachkad	13	5	5	23
35	21BK310773	Rohan Sharadrao Bonde	13	4	4	21
36	21BK310774	Rushikesh Ghangale	13	5	5	23

## MBA Internal Marks Analysis (Theory)

P. J. Pate (Patil) College of Engineering and Management, Amravati							
DEPARTMENT OF MBA							
Internal Marks Semester 2021 (Even SEM)							
Class: MBA 2nd Year Sem II			Name of Subject and Code: HRM				
Sr. No.	University Roll No.	Name of Student	Class Test 1	Class Test 2	Assignment 1	Assignment 2	Total
			10	10	5	5	
1	20531	AKSHAY SATISHRAO NIMDEKAR	8	8	5	5	26
2	20532	ANKET MUKESHRAO JAYADE	8	8	5	5	26
3	20533	ANSITA RAMESHWAR TADANI	8	9	5	5	27
4	20534	ANUJ CHANDRASHIBHOKAR LANGHE	8	8	5	4	25
5	20535	ASHWINI MAHESH GOBLE	9	9	5	5	28
6	20536	BHISHA BANO BIRBAQUE MULLA	9	9	5	5	28
7	20537	CHITAN SANTOSH DHOZE	8	9	5	5	27
8	20538	DAMINI RAMESHWAR KAKAD	8	9	5	5	27
9	20539	DEVYANI PRAMOD DESHMUKH	9	9	5	5	28
10	20540	DHARASING CHAMPAT CHANDEL	7	7	5	4	23
11	20541	DIPALI GAJANAN TEKOTE	9	9	5	4	27
12	20542	GANESH RAU FAYAKE	9	9	5	5	28
13	20543	JANHAVI KISHOR DIGHADE	9	8	5	5	27
14	20544	KAJAL HARIRAM YISHWANJ	8	8	4	4	24
15	20545	KALYANI KEVALANATH ALOTHI	9	10	5	5	29
16	20546	KARTIK GAJANAN TAKARKHEDE	9	8	5	5	27
17	20547	KRISHNA YASANT KHEDKAR	8	8	5	5	26
18	20548	MAJAZ AKHITAR MENTAJ AKHITAR	7	8	4	4	23
19	20549	MANGESI MOHAN DANDALE	10	9	5	5	29
20	20550	MAYUR RAMESH THAKARE	9	9	4	4	26
21	20551	MOHD UMAR MOHD ZUBAIR	7	7	4	4	22
22	20552	MOHINI SHANKARRAO MAHALLE	9	9	5	5	28
23	20553	MONIKA VINODRAO KANTHOLKAR	9	9	4	4	26
24	20554	MUKHTAR KHAN MUQADDAR KHAN	9	9	5	5	28
25	20555	NAYAN SUDAY AGRAWAL	9	9	5	4	27
26	20556	NEHA DALEAT CHAWALE	9	10	5	5	29
27	20557	NITESH BHARAT CHAVHAN	8	8	3	3	22
28	20558	PAKAK RAMAKANT PEDDIYAR	9	9	4	4	26
29	20559	PALLAVI NIRMALAN KALIRANDE	8	8	4	4	24
30	20560	PALLAVI PRAMOD SALCIRE	9	9	5	4	27
31	20561	PAYAL KISHOR NAWALE	9	9	4	5	28
32	20562	PAYAL RAJESH MAHESHWAR	8	8	3	4	23

33	20563	POOJA DNYANESHWAR BANWARI	9	9	5	4	27
34	20564	PRACHI GAJANAN BHOWAIKAR	10	9	5	5	29
35	20565	PRAPAL DEBPRAD FUTE	9	9	4	4	26
36	20566	PRANAV PAMOD GAWANDE	9	9	5	4	27
37	20567	PRASANNA AJAY AINGKAR	5	9	5	4	27
38	20568	PRATIK SUDHAKAR BHIDE	9	9	5	4	27
39	20569	PRATIKSHA SUNIL JOSHI	9	9	5	4	27
40	20570	PRITI LAXMAN BAGADE	8	8	5	4	25
41	20571	PRITI LAXMAN BHILAKATE	9	9	5	4	27
42	20572	REYATI PANDHARU SAKVE	9	10	5	5	29
43	20573	ROHIT NAMDEV POKANE	9	9	5	4	27
44	20574	RUSHALI NITIN LEKURWALE	9	9	5	4	27
45	20575	RUSHIKESH ANILRAO KALMECH	9	9	5	4	27
46	20576	RUSHIKESH NANOJIKORRAO WAGH	9	9	5	5	28
47	20577	RUSHIKESH NANOJIKORRAO WAGH	9	9	5	4	27
48	20578	SAHIL MUKESH SAHARE	9	9	5	4	27
49	20579	SAHIL RUPCHANDRAO GHORE	9	9	5	4	27
50	20580	SAMESHA SUSHIL JOSHI	10	9	5	5	29
51	20581	SARANG NARAYANRAO NIKAM	9	9	5	4	27
52	20582	SAURABH NAGORAO WANKHADE	9	9	5	4	27
53	20583	SHAMLI KESHAV KAWALE	9	10	5	5	29
54	20584	SHYAM PRASANT INGLE	9	9	5	5	28
55	20585	SHUBHAM JYEGA MAWASKAR	9	9	5	4	27
56	20586	SHUBHAM KAJENDRA SAHU	9	9	4	5	27
57	20587	SHUBHAM SUNIL TAYADI	9	9	5	4	27
58	20588	SHWETA DADARAO JAWANJAI	9	9	5	5	28
59	20589	SHWETA MAROTRAO KALE	9	10	5	5	29
60	20590	SRUSHTI GANESHRAO RAUT	9	9	5	4	27
61	20591	SRIJITH SURESHRAO KUMBHARWAR	9	9	5	4	27
62	20592	SUSHAMA MANCHANDRAO KAPNAGE	9	9	5	4	27
63	20593	VAIDENY SUBHASIRAO ADRAU	10	9	5	5	29
64	20594	VAISHNAVI GOVINDRAO SABLE	9	9	5	4	27
65	20595	VAISHNAVI NARAYAN MAHORE	9	9	5	4	27
66	20596	VAISHNAVI SUNIL MAKAR	10	8	5	5	28

Subject Teacher Sign  
Prof. P. W. Nimbhorkar.

HOD  
H.O.D. (MBA Dept.)  
P. R. Patil (Patil) College of Engg & Management  
Amravati



Patil  
P. R. Patil (Patil)  
College of Engg & Management  
Amravati

**P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions**  
**College of Engineering & Management, Amravati**  
**Department of Electrical Engineering**

**Session :2021-22**

**Display of Faculty Specilization for Project**

Name of Faculty	Designation	Area of Interest 1	Area of Interest 2	Area of Interest 3
Prof.D.A.Shahakar	H.O.D & Asso.Prof.	Electrical Drives & Control	Power System	Non Convetional sources
Dr.S.B.Warkad	Profesor	Electrical Power system	Power Quality	Non Convetional sources
Dr.A.S.Telang	Asst. Prof.	Control System	Power System and Modern Grid	Power system stabilty
Prof.Y.H.Khair (Shahakar)	Asst. Prof.	Power system	Power system optimization	Power system stabilty
Prof.P.R.Rane	Asst. Prof.	Electrical Power system	Deregulated Power System	Control system
Prof.A.A.Ghute	Asst. Prof.	Power electronics Application	Solar power application	IoT application
Prof.S.A.Jalit	Asst. Prof.	Electrical Power system	Power Quality	Non Convetional sources
Prof.A.K.Duchakke	Asst. Prof.	Electric Vehicle Technology	Power System Protection	Power Quality
Prof.A.P.Pundkar	Asst. Prof.	non conventional Energy resources	Power System	Power Quality
Ms. Smita V. Kalmegh	Asst. Prof.	Electrical Power system	Non conventional Energy resources	Power electronics Application

  
Project Coordinator

  
H.O.D. (Elect. Dept.)  
P.R. Pote (Patil) College of Engg. & Management  
Amravati.



**GENERAL GUIDELINES FOR PROJECT GUIDES**

- (1) The project guides have to take a report from the students regarding the work carried out by them during the previous semester and clear information regarding the individual contributions of each member of the group.
- (2) The project guide along with the students has to meticulously plan the implementation methodology and progress of the project work at the beginning of the semester.
- (3) The project guide has to take an action plan report from the group at the beginning of the Semester.
- (4) The action plan report must show the approximate time duration required for completion of various stages of the project work. A graph showing comparison of the action plan and the actual work progress has to be maintained by all the students and the guide in their project files.
- (5) The project guide must keep in touch with his/her group on a regular basis to monitor the project work progress and guide the batch to complete the project work well in time.
- (6) The project guide has to mark attendance of the students of his/her batch regularly without fail during every project session as per the timetable.
- (7) The Project coordinator will also mark attendance of the students during every project session..
- (8) The Project guide has to nominate one student in the group as the group leader and keep in constant touch with the group through him.
- (9) The project guide has to maintain a Project File to record the work progress of the group. The chronological calendar of events has to be filed and verified from time to time to meet the deadlines fixed by the Coordinator.
- (10) The project guide has to instruct every student in the group to maintain their individual Project files to record the work carried out by him/her. This file must be available with the student whenever he/she is working in the project laboratory for verification by the project guide/ project Coordinator/HOD.
- (11) Every project group will be allotted a Lab and work table along with basic equipments needed for their project work. The keys of the table will be handed over to the guide. The project guide has to ensure that their students work mandatorily at the allotted Lab/table and use only the allotted facility without disturbing the working atmosphere of the project laboratory. Any misbehavior on the part of the students has to be immediately reported to the Coordinator for initiating disciplinary action.
- (12) The project guide has to clearly instruct the students to make entry into the log book before using the allotted laboratory PC. Defaulters may be barred from using the laboratory computers thereafter.
- (13) The project guide has to go through the students' project files and verify the authenticity of the recordings done by them.
- (14) If any student in the group is not following instructions or is not completing the allotted work in time or is not regularly attending the project sessions, then the project guide has to report the matter immediately to the Project Coordinator for initiating corrective measures.
- (15) It is very important that the project guides meticulously follow the progress of the project work and ensure that the students do not get the project work done by external agencies.
- (16) The project guide has to submit a weekly evaluation and progress report of his/her batch to the project coordinator in the given format by considering their attendance and individual contributions.

- (17) If students of a project group need any component, equipment or any other requirement from the department, they will have to submit an application to the HOD through their respective guide and the Project Coordinator. Any application from the students without the signature of the guide will not be considered.
- (18) The project guides have to guide their students regarding collection of literature required for the completion of their project reports and start chapter wise completion of project report on a regular basis. They have to refer to the proto type copy given to them by the Coordinator and check whether it is being followed or not.
- (19) The project guides have to be in constant touch with the project coordinator to get any clarifications.
- (20) In case of non availability of the project coordinator for any reason, the project guides have to immediately contact the HOD for any clarifications or complaints.
- (21) The project guides have to check and verify whether the students have followed the guidelines and formats prescribed by the project Coordinator while submitting documents or project reports.
- (22) The project guides must be mandatorily present in the project lab during the weekly project viva session as per the class timetable.
- (23) The project guides should properly plan the demonstration of the project work for internal evaluation.
- (24) The project guides have to ensure that the project reports of their groups are ready in all respects before the demonstration and internal evaluation of the projects, since marks are allotted for project reports also.
- (25) The final internal assessment marks of the students will be decided jointly by the Project Guide, Project Coordinator and the HOD based on their project attendance, weekly viva/progress seminars, individual contribution and performance in internal viva conducted by the Project Coordinator during the project work demonstration.

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### GUIDELINES FOR STUDENTS (Project)

1. At the beginning of the semester, students have to submit "Project & Guide selection format" and submit a report of the work carried out by them as per given schedule in consultation with Industry personnel (if project is Industry based), prospective guides etc., to the project coordinator.
2. Final selection of project title and respective guide allocation will be communicated to students by the department once the above format is successfully submitted by project group.
3. Every project group will have a group leader who will act as a coordinator of the group and maintain regular contact with the guide. Other students in the group will follow the instructions of the group leader and shall fully cooperate with the other team members in the successful completion of the project work. Any student trying to create nuisance in the group may face expulsion from the group and further disciplinary action.
4. Students have to attend all the prescribed project work sessions as per the class timetable/project schedule and get attendance marked from their guides regularly and also attend the weekly viva/progress seminar sessions. The IA marks will be based on attendance, individual performances in project sessions and viva/seminars.
5. Also it is the responsibility of the students to meet the project coordinator and get their attendance marked during every project work session that they are attending. Failure to do so may result in shortage of attendance.
6. Every student has to maintain a project file (in a given format) consisting of all the details of their project work and regularly record their individual contributions to the development of the project. This file must be carried by the students without fail whenever they enter the project lab.
7. The students have to document and submit the project action plan report to their guides at the beginning of the semester. A graph showing the comparison between the action plan and actual work progress has to be maintained.
8. Students have to meet their respective guides regularly during their allotted project work sessions as per the timetable and appraise their guides about their individual contributions in the development of the project work. This will help the guide to properly evaluate the performance of the students.
9. Student attendance in project defining, progress seminars are compulsory. Failure to which they will not be allowed to carry their project work and also may not be permitted to appear in internal and external project examinations.
10. Each project group will be allotted a work table in the project lab consisting of a DC power supply, Signal Generator and a CRO. The keys of the work table locker will be handed over to the group which will be jointly responsible for the equipment issued to them. At the end of the semester the students will have to handover the table locker keys and the equipment in good working condition to the project Coordinator. Any damage to the equipment has to be made good by the students.
11. Each project group will be allotted a Lab and work table along with basic equipments/facility needed for their project work. The students work mandatorily at the allotted Lab/table and use only the allotted facility without disturbing the working atmosphere of the project laboratory. It is also mandatory for the students to enter details into the log book before using Lab/table. Any misbehavior, nuisance in the project lab on the part of the students may be suspended from attending the lab sessions and will have to face stringent disciplinary action.
12. Students have to diligently follow instructions of their guides and complete the allotted work within the stipulated time, students violating these instructions may not be eligible for good IA marks.

13. It is very important that students do not involve any external agencies in completing their project work. Any such incidents being noticed may result in cancellation of the project and may entail strict disciplinary action.
14. If students need any component, equipment or any other requirement from the department, they will have to submit an application to the HOD through their respective guide and get it forwarded by the Project Coordinator. Any application from the students without the signature of the guide and the project coordinator will not be considered. The final decision to make available equipment or component required for project work is to be taken by management solely based on allotted budget for the project and project utility.
15. Students have to start the process of literature survey/collection for their project reports right from the beginning in consultation with their guide.
16. Students have to totally follow the guidelines issued to them by the guide, Project Coordinator and the department in submitting documents and the project report.
17. It is mandatory that students have their project reports ready in all respect by the time of demonstration of the project work for internal evaluation. Projects works without project reports may not be considered for internal evaluation since a sizeable percentage of the IA marks are allotted for project report.
18. The project work would be highly appreciated by management if students presented their research work at national/international platform. Students are advised to participate in national/international project/paper competitions, Journal publications and even Patenting their work. A financial support along with IA marks benefits will be given for such initiations.
19. The final IA marks for the project work will be decided jointly by the Project Guide, Project Coordinator and the HOD based on the project attendance, viva/seminar performance, individual contribution and performance in internal viva conducted by the Project Coordinator during the project work demonstration.

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## GUIDELINES FOR DEPARTMENTAL PROJECT COORDINATOR

1. At the beginning of the semester, the departmental project coordinator in consultation with Central coordinator of projects initiates process of 'Project and Guide finalization' in the department. The format has to be circulated amongst project groups. In discussion with guides and HOD the final list of approved project group, project title and guide and PRC members allotted has to be prepared and get approved by Central coordinator of projects. The approved list is to be communicated to respective project group, guide and PRC members.
2. A chronological calendar of events (i.e. project defining and review seminars, internal submissions and model demo etc.) has to announce by the project coordinator at the beginning of the semester for successful completion of all project works within the stipulated time duration. A copy of this has to be provided to every project guide to be filed in the project file for his/her regular reference.
3. The project coordinator has to allot labs/work tables and requisite facility to all the project batches.
4. Equipment if required may be handed over to the students in consultation with the guide. Proper issues register mentioning serial numbers of the equipment issued is to be maintained taking signatures of all the project group members including signature of the guide.
5. Any application from the students for any requirement without the endorsement of the guide should not be entertained.
6. An instruction must be displayed at every PC, instructing the user (staff or student) to enter the log book before using the PC.
7. Every PC in the project lab must have a log book and the lab technician has to check whether the students are entering the log book before using the PC. If any student is using the PC without entering into the log book then the matter has to be reported to the coordinator immediately. The coordinator has to initiate some punitive measure in consultation with the HOD to curb this violation of instruction.
8. The instructor has to constantly supervise and observe that the PCs and equipment in the lab are not being misused by the students. Any case of misuse has to be reported to the coordinator.
9. The project coordinator has to mark attendance of the students who report to him during the project sessions as per the timetable.
10. The project coordinator has to get weekly reports from all the guides and go through them. He has to cross check his students' attendance with that of the guides' records. In case of any discrepancy the matter has to be immediately reported to the HOD for initiating corrective action.
11. The project Coordinator has to submit a consolidated, batch wise attendance, work progress and marks awarded by the guide of all the batches once in 15 days to the HOD.
12. The project coordinator has to display the notices to students, guide and PRC members regarding Project defining and Review Seminars well in advance.
13. The project coordinator has to submit a separate report to the HOD and Central coordinator projects once in 15 days about the progress of project works along with the submitted action plan.
14. Student members who requested financial and academic support to present their project work at national/international conferences and Journals; they can route their application through Guide, HOD and project coordinator only.
15. The project Coordinator has to ensure through the guides that project reports of all batches have identical formatting. This has to be ensured by issuing clear guidelines to the students and guides well in time.
16. The project Coordinator has to prepare a prototype of the project report to be submitted by the students and provide a copy of the same to all the guides for their reference and to guide the students from time to time.

17. The proto type copy should provide all details about the project report like: (a) Quality and colour of cover page (b) Contents of the cover page (c) Fonts and font size to be used on cover page. (d) Quality and colour of title page ( inside first page) (e) Contents, Fonts and font size of title page (f) Quality and colour of Certificate page (g) Contents, Fonts and font size of Certificate page (h) Contents, Fonts and font size of Acknowledgement page (i) Details of headings to be included in contents of the project report. (j) Quality and size of paper to be used for project report (k) Layout of inside sheets being used for project report ( border etc).
18. The project Coordinator has to put up all instructions and guidelines regarding project work for the students on the notice boards and provide an individual copy of the same to all the project guides.
19. Dates for submission of draft copy of the project report, final approved copy of project report , project demo with pre-submission seminar and internal evaluation have to be announced by the project coordinator well in advance to avoid inconvenience to the students .
20. The project demo and internal viva of every batch has to be conducted by a team of 3 or 4 members comprising of the Project Coordinator, Project Guide, PRC members and HOD.
21. The project Coordinator has to submit a report to the HOD and Central coordinator projects about the proceedings of the project demo and internal viva of all the batches.
22. The final IA marks of project work for all the students will be jointly decided by the Project Guide, Project Coordinator and the HOD based on the project attendance, weekly viva/seminar performance, individual contribution and performance in internal viva conducted by the evaluating team during the project work demonstration and viva.
23. The project coordinator has to ensure that there is dignified silence and a disciplined working atmosphere in the project lab. Any student found polluting the working environment in the lab has to be warned and immediately barred from entering the lab pending enquiry by the HOD.

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**Amravati.**

**P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions  
College of Engg. & Management, Amravati**

**Draft Guidelines on the Preparation of BE Project Report**

**OBJECTIVE**

A Project report is a documentation of a Graduate student's project work - a record of the original work done by the student. It provides information about the student's research work to the future researchers. The Department is required to preserve a proper copy of the student's report for archiving and cataloging it in the Departmental Library, making it available to others for academic purpose. Standardization, readability, conformance to ethical norms, and durability are the four overriding criteria for an acceptable form of a report. The objective of this document is to provide a set of guidelines that help a research student to prepare the report to satisfy the above-mentioned criteria.

**FEATURES**

1. The final copy of the project report has to contain all the modifications/corrections suggested by the examiners (including the members of the Viva-Voce Board) and is to be submitted after the student successfully defends the project in the viva-voce examination.
2. The report has to contain an appropriate *copyright notice*.
3. The report has to include a *declaration* by the student to the effect that he/she has not resorted to any unethical practice while carrying out the research work and preparing the report.
4. The *contribution* of the student must be explicit in the Introduction chapter of the report.

**PRODUCTION**

**Report Size**

1. The maximum number of pages of the Report should be preferably between 50 -75 pages.

**Paper Size**

2. The standard A4 paper size of a Report is 21.5 cm (8½ inch) wide and 28 cm (11 inches) long.
3. Oversized figures and tables, if any, should be reduced to fit within the size of the paper, but the reduction should not be so drastic as to impair clarity of the contents. One may also fold these pages to fit within the paper size.

### **Single-Sided Printing**

It is suggested that the report be printed on one side of the paper only.

### **Non-Paper Material**

1. Digital or magnetic materials, such as CDs and DVDs, may be included in the report. They have to be provided in a closed pocket attached to the inside of the back cover page of the report. It should be borne in mind that their formats may become obsolete due to rapid change in technology, making it impossible for the Library to guarantee their preservation and use.
2. All non-paper materials, as above, must have a label each indicating the name of the student, the date of submission, and the copyright notice.

### **Page Numbering**

1. Page numbers for the prefacing materials of the report shall be in small Roman numerals and should be centered at the bottom of the pages.
2. Page numbers for the body of the report should be in Arabic numerals and should be centered at the bottom of the pages. The pagination should start with the first page of Chapter 1 and should continue throughout the text (including tables, figures, and appendices)

### **Binding**

1. The report submitted for examination has to be Hardbound and printed on both sides. The reports should have, on their spines, the abbreviated title of the report, the name of the student, and the year of submission of the report.

### **FORMAT FOR THE REPORT**

After the text of the report is written, it is to be formatted in an appropriate manner for printing. The following guidelines are provided to format the report for easy readability.

#### **Font**

2. The preferred font size of the text in the report is 12 point, but in no case should it be less than 11-point. The minimum font size of materials within a table or a figure can be 8 point, however.
3. The preferred font type is Times New Roman.

#### **Margins**

1. A margin of 3.75 cm (1½ inch) is to be given on the binding edge while on the other side it is to be 2.5 cm (1 inch). The text of the report, including headings, figures, tables, and notes, but excluding page numbers, must be accommodated within the page area.

#### **Line Spacing**



1. The line spacing in the main text must be one-and-a-half lines. Single line spacing should be given for quotations, abstract, declaration, report approval, figure captions, table titles, figure legends, footnotes, and references.
2. Equations, tables, figures, and quotations should be set off from the main text with two line spacing.
3. Two consecutive paragraphs should be separated by two line spacing.

## **THE PREFATORY MATERIALS**

### **Title of the Report**

1. The title of the report should remain same as that given in the synopsis
2. It may be noted that other students can have electronic access to the abstract (internationally) and the report. Search engines use the words of the title (and other keywords) to locate their contents. Use of formulae, symbols, Greek letters, etc., should be substituted by their word equivalents, because they do not appear on most computer keyboards.

### **Cover Page**

1. Cover page should contain the title of the report and the name of the candidate.
2. The spine of the report (when finally submitted after the Viva-Voce Examination) should be provided with an abbreviated title of the report, the name of the student, and the year of submission of the report. (See Sample Page 1 for details).

### **Title Page (First Inner Page)**

The title page (first inner page) should be similar to the cover page but should contain a few additional items. This page will not only bear the title of the report and the candidate's name, but also the name of the degree for which the report is submitted, the name of the Institute, month and year of submission of the report, and the copyright notice.

The copyright notice shall consist of the following:

- a. The encircled symbol "C" ©
- b. The year of the award of the degree
- c. The name of the owner of the copyright
- d. The words "All rights reserved" (optional)

Examples:

© 2012 Rakesh K. Sharma. All rights reserved.

© 2012 Rakesh K. Sharma.

1. See Sample Page 2 for details.

## **Declaration by the Students**

The student has to give a declaration to the effect that the data used for the work, the work depicted in the report, and the written material contained in the report are not copied from others and that due permission has been taken from, and due credit has been given to, the sources whenever they are used. (See Sample Page 4 for details).

## **Acknowledgements**

2. It should be limited, preferably, to one page. (**Optional**)

## **Contents**

Chapter numbers, chapter names, section numbers, section headings, subsection numbers, and subsection headings, along with the corresponding page numbers, should be given in the Contents. (See Sample Page 4 for details).

## **List of Symbols**

All the symbols used in the report are to be given here along with their explanations and units of measurement (if applicable).

## **Abstract**

1. The abstract of the report should be limited to 200-300 words.
2. A list of keywords should follow the abstract.

## **BODY OF THE REPORT**

The report should be written in American English, not a mixed mode. However, because of increasing acceptance of both styles and blurring of the distinction between the two, what is important is that consistency should be maintained throughout the text.

### **Note:**

- Indian authors often use both styles without knowing whether the style they follow while writing is American or British. Also many American words are from Cambridge Dictionary. Further, there are subtle differences in the British and American styles with regard to punctuation, abbreviations, quotations, etc., which are increasingly accepted by the proponents of both styles, and hence the distinction between them has blurred over the years.
- The chapters should have numbers in Arabic numerals and should be written as Chapter 1, Chapter 2, etc. This should be followed by the title of the chapter (e.g., Introduction, etc.). The font size should be 14-point, bold for the titles.
- Figures, tables, graphs should be positioned within the body of the text immediately after citation and should not be positioned separately.

- Units should be in SI format. (See *A Note of SI Units*, already circulated).

### **References**

1. Author-date style of referencing is the preferred style for the project report of the Institute.
2. IEEE style to be followed.
3. Reference details must include the title of the source.

### **Appendices**

1. Each appendix should be identified as Appendix A, Appendix B, etc.
2. It should also have a title.
3. The appendices and their titles should be listed in the Contents.
4. Section and sub-section headings, equations, figures, and tables should be identified as A.1, A.2, etc., in accordance with their appearance in the appendix.

### **Page numbering:**

Cover page, Certificate, Acknowledgements, Abstract and Contents shall not contain any page number. All pages of chapters including tables, graphs, figures, and appendices shall contain page number at the right hand top corner preferably half inch from the top and three fourth inches from right hand side of the paper.

Arabic numerals shall be used for all pages of chapters and roman numerals for appendices.

### **Copies:**

All copies should be hard bound with the specified colour cover page (in no case spiral binding of thesis will be accepted).

The number of copies shall be one for each student, one copy for the Guide and one copy for department library.

**“Name of Topic (Times New Roman, Bold  
Capital Letters, Font Size 24, Centered)”**

*A Minor /Major Project submitted to  
Sant Gadge Baba Amravati University, Amravati  
in partial fulfillment of the requirements for the award of  
degree of*

**Bachelor of Engineering**

*by*  
.....Name of Student(s).....

*Under the guidance of*  
Prof. \_\_\_\_\_



**Department of \_\_\_\_\_ Engineering**

**P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions  
College of Engg. & Management, Amravati**

**2021-22**

## DECLARATION

I/We certify that the work contained in this report is original and has been done by us /me under the guidance of my supervisor(s).

- a. The work has not been submitted to any other Institute for any degree or diploma.
- b. I have followed the guidelines provided by the Institute in preparing the report.
- c. I have conformed to the norms and guidelines given in the Ethical Code of Conduct of the Institute.
- d. Whenever I have used materials (data, theoretical analysis, figures, and text) from other sources, I have given due credit to them by citing them in the text of the report and giving their details in the references. Further, I have taken permission from the copyright owners of the sources, whenever necessary.

Signature of the Student (s)

## CERTIFICATE

Certified that the project report entitled, ".....Name of the Topic....." is a bonafide work done under my guidance by \_\_\_\_\_ (Name of the students in alphabetical order) in partial fulfillment of the requirements for the award of degree of Bachelor of Engineering in \_\_\_\_\_ Engineering.

Date:

\_\_\_\_\_  
( )

Guide

\_\_\_\_\_  
( )

Head of the Department

\_\_\_\_\_  
( )

Dean

---

E mail:

Phone No:

Fax No:

## TABLE OF CONTENTS

Sl. No	CONTENTS	Page No.
	Title Page	i
	Declaration	ii
	Certificate by the Supervisor	iii
	Acknowledgement	iv
	List of Symbols	v
	List of Figures	vi
	List of Tables	vii
	List of Publications (Journal/conferences if any)	viii
	Abstract	ix
1	<b>Chapter 1-</b> Introduction and Literature Review	1 - 3
1.1	Section (Can include Introduction, scope and importance, trends etc.)	1
1.2	Section (Complete literature review)	2
1.3	Section (Establish study objectives and proposed methodology)	3
2	<b>Chapter 2-</b> Theoretical Study	4
3	<b>Chapter 3-</b> Experimental study (System simulation/hardware description)	5
4	<b>Chapter 4-</b> Results and Discussions	6
5	<b>Chapter 5-</b> Conclusions and Future scope of study	7
	References	8
	Appendix-A	x
	Appendix-B	xi
	Appendix-C	xii

## Sample List of References:

### Journals:

- [1] D. Walters, G. Sheble, "Genetic Algorithm Solution for Economic Dispatch with Valve Point Loading", *IEEE Transactions on Power Systems*, vol.8, no.3, pp.19-24, 1993.

### Books:

- [2] D.P. Kothari, J.S. Dhillon. *Power System Optimization*, Prentice Hall of India Private Limited, New Delhi, Edition2, pp. 214-221, 2004

### Conferences:

- [3] E.Handschin, L.Muller, T.Nikodem, R.Palma, "Comparison of pricing methodologies for wheeling transactions in liberalised energy supply systems", *Proceedings of IEEE International Conference on Electric Utility Deregulation and Restructuring and Power Technologies*, pp. 528-531, 4-7 April 2000.

### Reports:

- [4] "Report on the Performance of the State Power Utilities for the Years 2006-08 to 2008-09", Power Finance Corporation Limited (A Government of India undertaking), New Delhi, September 2010.

### Project Report/Thesis:

- [5] James Daniel Weber, "Implementation of a Newton-Based Optimal Power Flow into a Power System Simulation Environment", A Thesis submitted to University of Illinois at Urbana-Champaign, pp. 1-102, 1997.

### Website:

- [6] "Annual Report (2008-09)", Central Electricity Regulatory Commission, Government of India, New Delhi, 2010. (website <http://www.cercind.gov.in>).



## Sample List of publications:

### Patent Submitted

- 1 S.B.Warkad, Dr. M.K. Khedkar, Dr. G. M. Dhole, "Intelligent Energy Metering System", submitted to The Controller of Patents, Mumbai, in collaboration with SSGM College of Engineering, Shegaon [Application No: 1966/MUM/2010; Filed dated 9<sup>th</sup> July 2010 - under review].

### International Journals

- 1 S.B.Warkad, Dr. M.K. Khedkar, Dr. G. M. Dhole, "Optimal Electricity Transmission Pricing in a Restructured Electricity Market", *International Journal of Computer and Electrical Engineering (IJCEE)*, published by International Association of Computer Science and Information Technology Press (IACSIT), Singapore, Volume 1, No. 4, pp. 512-519, October, 2009.

### National Journals

- 1 S.B.Warkad, Dr. M.K. Khedkar, Dr. G. M. Dhole, "Optimal Electricity Nodal Pricing in a Restructured Electricity Market", *Journal of The Institution of Engineers (India)* Volume 91, pp. 29-35, June 18, 2010.

### International Conferences

- 1 S.B.Warkad, Dr. M.K. Khedkar, Dr. G. M. Dhole, "Computation and Economics of Nodal Price in a Restructured Electricity Market", International Conference on *Contours of Computing Technology, "ThinkQuest'2010"*, organized by BGIT, Mumbai, sponsored by Springer publication, IEEE Bombay section, Siemens and PCS, on 13-14<sup>th</sup> March 2010. (ISBN: 978-81-8489-988-2)

### National Conferences

- 1 S.B.Warkad, Dr. M.K. Khedkar, Dr. G. M. Dhole, "Electricity Spot Prices under Power Sector Restructuring: A Case study of Maharashtra State Electricity Transmission Company Limited (MSETCL)", 23<sup>rd</sup> National Convention of Electrical Engineers & National Seminar on *Challenges in Electricity Sector under Deregulated Environment*, by The Institution of Engineers (India), Pune, on 23-24 November 2007.

**Bound Volume Instructions:**

Binding Cover page Grey colour with black letters (Hard bound) in multiple copies of Project Report.

**Sample project hard binding content**

<b>Back</b>	<b>B.E.</b>  <b>EX</b>  <b>Jan 2022</b> <b>PRPCOEM</b>	<b>Main</b>
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S No	Name of Department	Code
1	Civil Engg	CE
2	Computer Science Engg.	CS
3	Electrical & Electronics Engg	EE
4	Electronics Engg.	EC
5	Mechanical Engg.	ME
6	Information Technology	IT

	Short Name	Full Name
Degree	B.E.	Bachelor of Engineering

**H.O.D. (Elect. Dept.)**  
**P.R.Pote (Patil) College of Engg. & Management**  
**Amravati.**

**P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions College of Engg. & Management, Amravati**  
**Department of Electrical Engineering**

VIII Sem B. E. Academic Year (2021-22)

Major Project Calendar (Tentative)

SN	Activity	Date/ Duration	Remark
1	Distribution of Project and Guide Finalization Format to students	03/01/2022	<ul style="list-style-type: none"> <li>• Coordinators are requested to mail the said format to students immediately.</li> </ul>
2	Submission/Allotment of Project	05/01/2022	<ul style="list-style-type: none"> <li>• Coordinators are informed to finalize the project title and Guide with HOD and concerned faculties</li> </ul>
3	Display of Allotted Projects and Guide	06/01/2022	<ul style="list-style-type: none"> <li>• Coordinators are informed to display list of project titles and communicate the same to the students through mail.</li> <li>• One copy to be send to <i>Project Coordinator</i></li> </ul>
4	Display of Project Defining Seminar schedule	07.01/2022	<ul style="list-style-type: none"> <li>• Coordinators are informed to display schedule for project defining seminar in a given format and communicate the same to students through mail.</li> <li>• One copy to be send to <i>Project Coordinator</i></li> </ul>
5	Collection of Project Report (hard/Soft copy)	24/01/2022	<ul style="list-style-type: none"> <li>• Collect Hard/ Soft copy of Project Defining seminar Report from project group.</li> </ul>
6	Conduction of Project Defining seminar as per schedule	28/01/2022 & 29/01/2022	<ul style="list-style-type: none"> <li>• Coordinators are requested to complete project assessment in a given format i.e. <b>"Project Defining Seminar Format"</b> completed in all respect.</li> <li>• Coordinators are requested to maintain student attendance in each seminar session.</li> </ul>
7	Seminar Completion Report	31/01/2022	<ul style="list-style-type: none"> <li>• Coordinators are requested to prepare seminar completion report in a given format.</li> <li>• Collect Hard and Soft copy of Project Defining seminar Report/Seminar from project group</li> <li>• One copy of the same to be submitted to <i>Project Coordinator</i></li> </ul>
8	Preparation of Project Review Seminar	07/02/2022	<ul style="list-style-type: none"> <li>• Coordinators are requested to start preparation for Project Review Seminar-I</li> <li>• Submit the judge/PRC members' comments to respective Guide for necessary action.</li> <li>• Collect the information about status of project work and students forthcoming progress seminar.</li> </ul>

9	Display of Project Review Seminar-I schedule	09/02/2022	<ul style="list-style-type: none"> <li>• Coordinators are requested to display schedule for project review seminar in a given format and communicate the same to students through mail.</li> <li>• One copy to be send to <i>Project Coordinator, CDSE</i></li> </ul>
10	Collection of Project Report (hard/Soft copy)	21/02/2022	<ul style="list-style-type: none"> <li>• Collect Hard/ Soft copy of Project Review seminar Report from project group.</li> </ul>
11	Conduction of Project Review seminar as per schedule	25/02/2022 & 26/02/2022	<ul style="list-style-type: none"> <li>• Coordinators are requested to complete project assessment in a given format i.e. "Project Review Seminar-I Format" completed in all respect.</li> <li>• Coordinators are requested to maintain student attendance in each seminar session.</li> </ul>
12	Seminar Completion Report	28/02/2022	<ul style="list-style-type: none"> <li>• Coordinators are requested to prepare seminar completion report <u>in a given format</u>.</li> <li>• Collect Hard and Soft copy of Project Review seminar from project group.</li> <li>• One copy of the same to be submitted to <i>Project Coordinator, CDSE</i></li> </ul>
13	Preparation of Project Presubmission Seminar	11/04/2022	<ul style="list-style-type: none"> <li>• Coordinators are requested to start preparation for <b>Project Review Seminar-II</b></li> <li>• Submit the judge/PRC members' comments to respective Guide for necessary action.</li> <li>• Collect information about status of project work and students forthcoming progress seminar.</li> </ul>
14	Display of Project Presubmission Seminar schedule	13/04/2022	<ul style="list-style-type: none"> <li>• Coordinators are requested to display schedule for <b>Project Presubmission seminar</b> in a given format and communicate the same to students through mail.</li> <li>• One copy to be send to <i>Project Coordinator, CDSE</i></li> </ul>
15	Conduction of Project Presubmission seminar as per schedule	27/04/2022 & 28/04/2022	<ul style="list-style-type: none"> <li>• Coordinators are requested to complete project assessment in a given format i.e. "<b>Project Presubmission seminar Format</b>" completed in all respect.</li> <li>• Coordinators are requested to maintain student attendance in each seminar session.</li> </ul>
16	Seminar Completion Report	04/05/2022	<ul style="list-style-type: none"> <li>• Coordinators are requested to prepare seminar completion report <u>in a given format</u>.</li> <li>• Collect Hard and Soft copy of Project Review seminar-I from project group.</li> <li>• One copy of the same to be submitted to <i>Project Coordinator, CDSE</i></li> </ul>
17	Post Session Report	09/05/2022	<ul style="list-style-type: none"> <li>• Coordinators are requested to submit Project seminar completion report <u>in a given format</u>.</li> <li>• Preparation and submission of IA Marks/Grade.</li> <li>• One copy of the same to be submitted to <i>Project Coordinator, CDSE</i></li> </ul>

**Note:**

- The given schedule may change once Academic calendar get finalized
- Formats mentioned in the remark column will be circulated you in due course of time

  
**H.O.D. (Elect. Dept.)**  
**P.P. Patil (Patil) College of Engg. & Management**  
**Amravati.**

**P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions  
College of Engg. & Management, Amravati**

**Department of Electrical Engineering  
Final Year B. E. Academic Year (2021-22)  
Project Defining Seminar**

**NOTICE**

Date: 20/11/2022

The students of the B.E. 4<sup>th</sup> year are hereby informed that they have to submit the Project defining seminar report with the signature of the guide to Project coordinator. They have to deliver the Project defining seminar as per the schedule mentioned below in presence of the Project Review Committee (PRC), Guide, Project Coordinator and HOD.


Students have to submit one hard copy of their project report to the project coordinator and also soft copies to their respective guide and PRC members atleast two days prior to seminar. The content of Report and Seminar is given below.

**Contents (for project Defining seminar):**

- |                       |                                       |   |                  |
|-----------------------|---------------------------------------|---|------------------|
| (1) Title of Project; | (2) Abstract                          | (3) Contents                            | (4) Introduction |
| (5) Literature Survey | (6) Problem definition                | (8) Proposed project Scheme/Methodology |                  |
| (9) Project Schedule  | (10) Proposed Project report contents | (11) References                         |                  |

**Contents (for project Review seminar):**

- |  |                                 |              |                  |
|--|---------------------------------|--------------|------------------|
| (1) Title of Project;  | (2) Abstract                    | (3) Contents | (4) Introduction |
| (5) Research Objectives  | (6) summary of previous seminar |              |                  |
| (7) Preface of existing seminar (seminar content, work completed, answers to queries/modifications as raised/suggested by PRC members if any |                                 |              |                  |
| (8) Summary of forthcoming progress seminar  | (9) References                  |              |                  |
| (10) Details of publications of work (conferences/Journal etc.) if any.  |                                 |              |                  |

  
\_\_\_\_\_  
Signature of Project Coordinator

  
\_\_\_\_\_  
Signature of H.O. (Elect. Dept.)  
P.R. Pote (Patil) College of Engg. & Management  
Amravati.

**Copy to:**

- Dean (R&D) for kind information.
- Project Guide- requested to inform their candidates.

**P.R. Pote (Patil) College of Engineering & Management, Amravati**  
**Department of Electrical Engineering**  
**Project Group -Session 2021-22**

**Schedule-Project Defining Seminar - 28th & 29th Jan 2022**

Sr.No.	Group	Name of Guide & PRC Member		
		Guide	PRC-1	PRC-2
1	Onkar Bhagat	Mr.S.V.Sonkhaskar	Mr.A.A. Ghute	Ms. S.V. Kalmegh
	Sumit Raut			
	Rushikesh Madavi			
	Nikhil Harley			
	Aditya Raut			
	Rushikesh Hete			
2	Rudrapratap Somwanshi	Mr.A. K. Duchakke	Mr.D.A.Shahakar	Mr.A.P.Pundkar
	Sarwesh Raghuwanshi			
	Indrajeet Rum			
	Shreyas Landge			
	Yashodeep Pakhre			
	Anand Matkar			
3	Shubham Mahulkar	Ms. S. V. Kalmegh	Ms.P.R.Rane	Mr.S.V.Sonkhaskar
	Pooja Mondhe			
	Prajakta Shrirao			
	Komal Pimpalkar			
	Harshal Kaikade			
	Sampada Wankhade			
4	Palak Jaiswal	Mrs. Y.D. Shahakar	Mr.S.A.Jalit	Mr.A.P.Pundkar
	Rutuja Madhav Tidake			
	Renuka Vijay Navghare			
	Tarika Govindrao Kale			
	Nisha Ratale			
	Anjali warkad			
5	Vyanktesh Shrikrushna Hande	Mr. S. A. Jalit	Mr.D.A.Shahakar	Ms. S.V. Kalmegh
	Shashikant Deshmukh			
	Abhishek Umbarkar			
	Mayur Deshmukh			
	Adarsh Gadge			
	Hemant Dhok			
6	Tushar Khande	Mr. A. P. Pundkar	Dr.S.B.Warkad	Mr.A. K. Duchakke
	Sanket Kakde			
	Viraj Zambre			
	Prashant Chauhan			
	Ishaque Sheikh			
	Gopal Chude			
7	Rushikesh a Banagle	Dr.S.B. Warkad	Mrs.Y.D.Shahakar	Mr.S.V.Sonkhaskar
	Rushikesh Wankhade			
	Pradumnya Gangane			
	Nandini Sonar			
	Vaishanavi Mandwale			
8	Manashri Rajendrarao Nerkar.	Mr.S.V.Sonkhaskar	Ms.P.M. Mankar	Mr.A. K. Duchakke
	Gauri Yawale.			
	Prachi Vaidya.			
	Prathamesh Tarale.			
	Prajwal Gawal.			
	Karan Band			
Prassana Gulaxe				

9	Abhinav Gangiwale	Mr.A.P.Pundkar	Mr.S.A.Jalit	Ms. S.V. Kalmegh
	Swapnil Bhad			
	Sushil Karhale			
	Ashutosh Jawanjal			
	Roshan R Vairalkar			
11	Hemsiddhi Sanjay Kayande	Mr. D.A.Shahakar	Ms. P.M. Mankar	Mr.A. K. Duchakke
	Anushri Kanholakar			
	Deepali Aher			
	Ashwini Ingle			
	Saurabh Vyavhare			
12	Bhagyashri Ban	Ms. S.V. Kalmegh	Ms.P.M. Mankar	Mr.A.P.Pundkar
	Sakshi Thote			
	Shrutika Bijwe			
	Prajvali Meshram			
	Pranali Bobade			
13	Tushar Mohurle	Ms. P.M.Mankar	Ms. P.R. Rane	Mr.A.A. Ghute
	Dinanath Komrekar			
	Mayur Shinde			
	Sakshi Thakre			
	Mayuri Mahajan			
14	Prathamesh Umap	Dr.A.S.Telang	Mr.A.A. Ghute	Mr.S.V.Sonkhaskar
	Prashant Datey			
	Ajay Ingle			
	Nikhil Kaikade			
	Dhiraj Dhoke			
15	Vaibhav Malokar	Mr.A.A. Ghute	Dr.A.S.Telang	Mr.S.A. Jalit
	Ajay Kandarkar			
	Mukesh Dhale			
	Dipti Nimkarde			
	Nikita Gawande			
16	Arati Sunil Lande	Ms. P.M. Mankar	Ms. S.V. Kalmegh	Mrs. Y.D. Shahakar
	Pratiksha Gondane			
	Darshana Kedar			
	Bhushan chaware			
	Neha Rathod			
17	Mandar Wajpe	Mr. D.A.Shahakar	Mr.A.A. Ghute	Dr.S.B.Warkad
	Ravindra Rakhonde			
	Tejas Puri			
	Nikhil Chaudhari			
	Vikas Dhule			
Hrushikesh Chinchkhede				
18	Mrunal Choudhary	Prof. P. R. Rane	Ms.P.M. Mankar	Mrs. Y.D. Shahakar
	Saurabh Mishra			
	Arpita Gadekar			
	shruti Dongre			
	Tanaya Bhombe			
Aaditya Mankar				

  
Project Incharge  
(Prof. A. K. Duchakke)

  
HOD  
(Prof. D. A. Shahakar)  
P.R. Pote (Pani) College of Engg & Management  
Amravati

**P.R. Pote (Patil) College of Engineering & Management, Amravati**  
**Department of Electrical Engineering**  
**Project Group -Session 2021-22**


**Date - Project Defining Seminar - 28th & 29th Jan 2022**

Sr.No.	Group	Name of Guide & PRC Member		
		Guide	PRC-1	PRC-2
1	Vaishnavi Sunilrao Shirbhate	Mrs. Y.D. Shahakar	Mr.A.A.Ghute	Mr. A.P.Pundkar
	Yogini Yashwant Chauragade			
	Hariti Vinod Raut			
	Samiksha Jaykumar Dhote			
	Sharvaree Vasant Raut			
2	Anand Mugal	Dr. A.S. Telang	Ms.P.M. Mankar	Mr.S.V.Sonkhaskar
	Sanit Isal			
	Naved Khan			
	Sopan Lipte			
	Tejas Jawanjal			
3	Avantika R. Devikar	Ms. P.R. Rane	Mr.D.A.Shahakar	Mr.. A.K.Duchakke
	Grishma Bhalavi			
	Komal Agarkar			
	Akshay Dhurde			
	Akash Nawalkar			
4	Pawan Baliram Ingle	Mr. A.P.Pundkar	Mr.S.A.Jalit	Mr.S.V.Sonkhaskar
	Shilvant Devendra Hatole			
	Kashyap Pramod Bodile			
	Prashik Arun Tayade			
	Sumit Balkrushna Patkar			
5	Rani B. Sakhe	Ms. P.M. Mankar	Dr.S.B. Warkad	Mr. A.P.Pundkar
	Ruchita Charate			
	Snehal Pojage			
	Sagar Deshmukh			
	Rutuja Dhawane			
6	Aniket Ghurde	Mr. S.A. Jalit	Dr.A.S.Telang	Mr.D.A.Shahakar
	Himanshu Dakode			
	Prajwal Parve			
	Yashraj Mandpe			
	Roshan Bhakare			
	Pranjali Uike			
7	Kajal Ingale	Dr. S.B.Warkad	Ms. P.R. Rane	Mr.A.A.Ghute
	Vaishnavi Awaghad			
	Vaishnavi Dahane			
	Shardhha Ingole			
	Pallavi Pakhale			
	Pranali Pakhale			
8	Sham Bhatusing Rathod	Mr.. A.K.Duchakke	Mrs.Y.D.Shahakar	Ms. S.V. Kalmegh
	Kanchan Ganeshrao Makode			
	Dipak Dilip Rathod			
	Pankaj Jatale			
	Anushree Shivanand Khandokar			
	Shubham Katore			
9	Bhavana Mule	Mr. D.A.Shahakar	Mr.S.A.Jalit	Mr.. A.K.Duchakke
	Anuja Thakare			
	Aniket Balveer			
	Vijay Taksande			



	Sheikh Maroof Kanchan Khandare			
10	Mayur Thorat Krishna Wankhede Vaishnavi bhuyarkar Hitesh bhurghate Priti sanjay Ingale Ram Malkhede	Ms. S.V. Kalmegh	Mrs.Y.D.Shahakar	Dr.S.B.Warkad
11	Rhushikesh Ingole Rutik Bisane Pranav Chikate Prathamesh Tigane Tejas Gulhane Shubham Waware	Mr. A.A. Ghute	Dr.A.S.Telang	Ms. S.V. Kalmegh
12	Abhishek Shinde Akash modhe Pranav Chaudhari Abhinav Shinde Saurabh Bhandare	Mrs. Y.D. Shahakar	Ms. P.R. Rane	Mr.A.A.Ghute
13	Jagdish Pote Divyani Aher Gauri Khate Sarika Chavan Rutiksha Shevatkar	Dr. A.S. Telang	Dr.S.B. Warkad	Mr. S.A. Jalit
14	Tejas Kale Aman Waghmare Rutik Hiwse Aditya Dongre Rahul Bhagat Rutwik Holey	Mr. A.A. Ghute	Mr.D.A.Shahakar	Mr.S.V.Sonkhaskar

  
Project Incharge  
(Prof. A. K. Duchakke)

  
HOD  
(Prof. D.A. Shahakar)  
H.O.D. (Elect. Engg.)  
P.R. Pote (Patil) College of Engg. & Management  
Amravati.

**P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions  
College of Engg. & Management, Amravati**

**Department of Electrical Engineering  
Final Year B. E. Academic Year (2021-22)  
Project Review Seminar**

**NOTICE**

**Date:** 20/2/22

The students of the B.E. 4<sup>th</sup> year are hereby informed that they have to submit the Project review seminar report with the signature of the guide to Project coordinator. They have to deliver the Project review seminar as per the schedule mentioned below in presence of the Project Review Committee (PRC), Guide, Project Coordinator and HOD.


Students have to submit one hard copy of their project report to the project coordinator and also soft copies to their respective guide and PRC members atleast **two days prior to seminar**. The content of Report and Seminar is given below.

**Contents (for project Defining seminar):**

- |                       |                                       |   |                  |
|-----------------------|---------------------------------------|---|------------------|
| (1) Title of Project; | (2) Abstract                          | (3) Contents                            | (4) Introduction |
| (5) Literature Survey | (6) Problem definition                | (8) Proposed project Scheme/Methodology |                  |
| (9) Project Schedule  | (10) Proposed Project report contents | (11) References                         |                  |

**Contents (for project Review seminar):**

- |  |                                 |              |                  |
|--|---------------------------------|--------------|------------------|
| (1) Title of Project;  | (2) Abstract                    | (3) Contents | (4) Introduction |
| (5) Research Objectives  | (6) summary of previous seminar |              |                  |
| (7) Preface of existing seminar (seminar content, work completed, answers to queries/modifications as raised/suggested by PRC members if any |                                 |              |                  |
| (8) Summary of forthcoming progress seminar  | (9) References                  |              |                  |
| (10) Details of publications of work (conferences/Journal etc.) if any.  |                                 |              |                  |

  
Signature of Project Coordinator

  
Signature of HOD (Elect. Dept.)

H.O.D. (Elect. Dept.)  
P.R. Pote (Patil) College of Engg & Management  
Amravati.

**Copy to:**

- Dean (R&D) for kind information.
- Project Guide- requested to inform their candidates.

**P.R. Pote (Patil) College of Engineering & Management, Amravati**  
**Department of Electrical Engineering**  
**Project Group -Session 2021-22**

**Date - Project Review Seminar - 25th & 26th Feb 2022**

Sr.No.	Group	Name of Guide & PRC Member		
		Guide	PRC-1	PRC-2
1	Onkar Bhagal	Mr.S.V.Sonkhaskar	Mr.A.A. Ghute	Ms. S.V. Kalmegh
	Sumit Raut			
	Rushikesh Madavi			
	Nikhil Harley			
	Aditya Raut			
	Rushikesh Hete			
2	Rudrapratap Somwanshi	Mr.A. K. Duchakke	Mr.D.A.Shahakar	Mr.A.P.Pundkar
	Sarwesh Raghuwanshi			
	Indrajeet Rum			
	Shreyas Landge			
	Yashodeep Pakhre			
	Anand Matkar			
3	Shubham Mahulkar	Ms. S.V. Kalmegh	Ms.P.R.Rane	Mr.S.V.Sonkhaskar
	Pooja Mondhe			
	Prajakta Shrirao			
	Komal Pimpalkar			
	Harshal Kaikade			
	Sampada Wankhade			
4	Palak Jaiswal	Mrs. Y.D. Shahakar	Mr.S.A.Jalit	Mr.A.P.Pundkar
	Rutuja Madhav Tidake			
	Renuka Vijay Navghare			
	Tarika Govindrao Kale			
	Nisha Ratale			
	Anjali warkad			
5	Vyanktesh Shrikrushna Hande	Mr. S.A. Jalit	Mr.D.A.Shahakar	Ms. S.V. Kalmegh
	Shashikant Deshmukh			
	Abhishek Umbarkar			
	Mayur Deshmukh			
	Adarsh Gadge			
	Hemant Dhok			
6	Tushar Khande	Mr. A. P. Pundkar	Dr.S.B.Warkad	Mr.A. K. Duchakke
	Sanket Kakde			
	Viraj Zambre			
	Prashant Chauhan			
	Ishaque Sheikh			
	Gopal Chude			
7	Rushikesh a Banagle	Dr.S.B. Warkad	Mrs.Y.D.Shahakar	Mr.S.V.Sonkhaskar
	Rushikesh Wankhade			
	Pradumnya Gangane			
	Nandini Sonar			
	Vaishanavi Mandwale			
8	Manashri Rajendrarao Nerkar.	Mr.S.V.Sonkhaskar	Ms.P.M. Mankar	Mr.A. K. Duchakke
	Gauri Yawale.			
	Prachi Vaidya.			
	Prathamesh Tarale.			
	Prajwal Gawal.			
	Karan Band			
	Prassana Gulaxe			

9	Abhinav Gangiwale	Mr.A.P.Pundkar	Mr.S.A.Jalit	Ms. S.V. Kalmegh
	Swapnil Bhad			
	Sushil Karhale			
	Ashutosh Jawanjil			
	Roshan R Vairalkar			
11	Hemsiddhi Sanjay Kayande	Mr.D.A.Shahakar	Ms. P.M. Mankar	Mr.A. K. Duchakke
	Anushri Kanholakar			
	Deepali Aher			
	Ashwini Ingle			
	Saurabh Vyavhare			
12	Bhagyashri Ban	Ms. S.V. Kalmegh	Ms.P.M. Mankar	Mr.A.P.Pundkar
	Sakshi Thote			
	Shrutika Bijwe			
	Prajvali Meshram			
	Franali Bobade			
13	Tushar Mohurle	Ms. P.M.Mankar	Ms. P.R. Rane	Mr.A.A. Ghute
	Dinanath Komrekar			
	Mayur Shinde			
	Sakshi Thakre			
	Mayuri Mahajan			
14	Prathamesh Umap	Dr.A.S.Telang	Mr.A.A. Ghute	Mr.S.V.Sonkhaskar
	Prashant Datey			
	Ajay Ingle			
	Nikhil Kaikade			
	Dhiraj Dhoke			
15	Vaibhav Malokar	Mr.A.A. Ghute	Dr.A.S.Telang	Mr.S.A. Jalit
	Ajay Kandarkar			
	Mukesh Dhale			
	Dipti Nimkarde			
	Nikita Gawande			
16	Arati Sunil Lande	Ms. P.M. Mankar	Ms. S.V. Kalmegh	Mrs. Y.D. Shahakar
	Pratiksha Gondane			
	Darshana Kedar			
	Bhushan chaware			
	Neha Rathod			
17	Mandar Wajpe	Mr. D.A.Shahakar	Mr.A.A. Ghute	Dr.S.B.Warkad
	Ravindra Rakhonde			
	Tejas Puri			
	Nikhil Chaudhari			
	Vikas Dhule			
18	Hrushikesh Chinchkhede	Prof. P. R. Rane	Ms.P.M. Mankar	Mrs. Y.D. Shahakar
	Mrunal Choudhary			
	Saurabh Mishra			
	Arpita Gadekar			
	shruti Dongre			
	Tanaya Bhombe			
Aaditya Mankar				

Project Incharge  
(Prof. A. K. Duchakke)

*A. K. Duchakke*  
HOD  
(Prof. A. K. Duchakke)  
Elect. Dept.  
P.R. Pote (Padi) Co-ordinating & Management  
A. K. Duchakke

**P.R. Pote (Patil) College of Engineering & Management, Amravati**  
**Department of Electrical Engineering**  
**Project Group -Session 2021-22**

**Date - Project Review Seminar - 25th & 26th Feb 2022**

Sr.No.	Group	Name of Guide & PRC Member		
		Guide	PRC-1	PRC-2
1	Vaishnavi Sunilrao Shirbhate	Mrs. Y.D. Shahakar	Mr.A.A.Ghute	Mr. A.P.Pundkar
	Yogini Yashwant Chauragade			
	Hariti Vinod Raut			
	Samiksha Jaykumar Dhote			
	Sharvaree Vasant Raut			
2	Anand Mugal	Dr. A.S. Telang	Ms.P.M. Mankar	Mr.S.V.Sonkhaskar
	Sanit Isal			
	Naved Khan			
	Sopan Lipte			
	Tejas Jawanjaj			
3	Avantika R. Devikar	Ms. P.R. Rane	Mr.D.A.Shahakar	Mr.. A.K.Duchakke
	Grishma Bhalavi			
	Komal Agarkar			
	Akshay Dhurde			
	Akash Nawalkar			
4	Pawan Baliram Ingle	Mr. A.P.Pundkar	Mr S.A.Jalit	Mr S.V.Sonkhaskar
	Shilvant Devendra Hatole			
	Kashyap Pramod Bodile			
	Prashik Arun Tayade			
	Sumit Balkrushna Patkar			
5	Rani B. Sakhe	Ms. P.M. Mankar	Dr.S.B. Warkad	Mr. A.P.Pundkar
	Ruchita Charate			
	Snehal Pojage			
	Sagar Deshmukh			
	Rutuja Dhawane			
6	Aniket Ghurde	Mr. S.A. Jalit	Dr.A.S.Telang	Mr.D.A.Shahakar
	Himanshu Dakode			
	Prajwal Parve			
	Yashraj Mandpe			
	Roshan Bhakare			
7	Pranjali Uike	Dr. S.B.Warkad	Ms. P.R. Rane	Mr.A.A.Ghute
	Kajal Ingale			
	Vaishnavi Awaghad			
	Vaishnavi Dahane			
	Shardhha Ingole			
8	Pallavi Pakhale	Mr.. A.K.Duchakke	Mrs.Y.D.Shahakar	Ms. S.V. Kalmegh
	Pranali Pakhale			
	Sham Bhatusing Rathod			
	Kanchan Ganeshrao Makode			
	Dipak Dilip Rathod			
9	Pankaj Jatale	Mr. D.A.Shahakar	Mr.S.A.Jalit	Mr.. A.K.Duchakke
	Anushree Shivanand Khandokar			
	Shubham Katore			
	Bhavana Mule			
	Anuja Thakare			
Aniket Balveer				
Vijay Taksande				

	Sheikh Maroof			
	Kanchan Khandare			
10	Mayur Thorat	Ms. S.V. Kalmegh	Mrs.Y.D.Shahakar	Dr.S.B.Warkad
	Krishna Wankhede			
	Vaishanavi bhuyarkar			
	Hitesh bhurghate			
	Priti sanjay Ingale			
	Ram Malkhede			
11	Rhushikesh Ingole	Mr. A.A. Ghute	Dr.A.S.Telang	Ms. S.V. Kalmegh
	Rutik Bisane			
	Pranav Chikate			
	Prathamesh Tigane			
	Tejas Gulhane			
	Shubham Waware			
12	Abhishek Shinde	Mrs. Y.D. Shahakar	Ms. P.R. Rane	Mr.A.A.Ghute
	Akash modhe			
	Pranav Chaudhari			
	Abhinav Shinde			
	Saurabh Bhandare			
13	Jagdish Pote	Dr. A.S. Telang	Dr.S.B. Warkad	Mr. S.A. Jalit
	Divyani Aher			
	Gauri Khate			
	Sarika Chavan			
	Rutiksha Shevatkar			
14	Tejas Kale	Mr. A.A. Ghute	Mr.D.A.Shahakar	Mr.S.V.Sonkhaskar
	Aman Waghmare			
	Rutik Hiwse			
	Aditya Dongre			
	Rahul Bhagat			
	Rutwik Holey			

Project Incharge  
(Prof. A. K. Duchakke)

*P.R. Pote*  
HOD  
(Prof. D.A. Shahakar)  
H.O.D. (Engg. Dept.)  
P.R. Pote (Patil) College of Engg. Management  
Amravati.

**P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions  
College of Engg. & Management, Amravati**

**Department of Electrical Engineering  
Final Year B. E. Academic Year (2021-22)  
Project Presubmission Seminar**

**NOTICE**

Date: 20/4/22

The students of the B.E. 4<sup>th</sup> year are hereby informed that they have to submit the Project Presubmission seminar report with the signature of the guide to Project coordinator. They have to deliver the Project Presubmission seminar as per the schedule mentioned below in presence of the Project Review Committee (PRC), Guide, Project Coordinator and HOD.

Students have to submit one hard copy of their project report to the project coordinator and also soft copies to their respective guide and PRC members atleast **two days prior to seminar**. The content of Report and Seminar is given below.

**Contents (for project Defining seminar):**

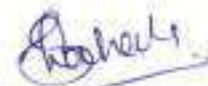
- |                       |                                       |   |                  |
|-----------------------|---------------------------------------|---|------------------|
| (1) Title of Project; | (2) Abstract                          | (3) Contents                            | (4) Introduction |
| (5) Literature Survey | (6) Problem definition                | (8) Proposed project Scheme/Methodology |                  |
| (9) Project Schedule  | (10) Proposed Project report contents | (11) References                         |                  |

**Contents (for project Review seminar):**

- |  |                                 |              |                  |
|--|---------------------------------|--------------|------------------|
| (1) Title of Project;  | (2) Abstract                    | (3) Contents | (4) Introduction |
| (5) Research Objectives  | (6) summary of previous seminar |              |                  |
| (7) Preface of existing seminar (seminar content, work completed, answers to queries/modifications as raised/suggested by PRC members if any |                                 |              |                  |
| (8) Summary of forthcoming progress seminar  | (9) References                  |              |                  |
| (10) Details of publications of work (conferences/Journal etc.) if any,  |                                 |              |                  |



Signature of Project Coordinator



Signature of Head of Department  
H.O.D. (Elect. Dept.)  
P.R.Pote (Patil) College of Engg. & Management  
Amravati.

**Copy to:**

- Dean (R&D) for kind information.
- Project Guide- requested to inform their candidates.

**P.R. Pote (Patil) College of Engineering & Management, Amravati**  
**Department of Electrical Engineering**  
**Project Group -Session 2021-22**

**Schedule-Project Presubmission Seminar - 27th & 28th April 2022**

Sr.No.	Group	Name of Guide & PRC Member		
		Guide	PRC-1	PRC-2
1	Onkar Bhagat	Mr.S.V.Sonkhaskar	Mr.A.A. Ghute	Ms. S.V. Kalmegh
	Sumit Raut			
	Rushikesh Madavi			
	Nikhil Harley			
	Aditya Raut			
	Rushikesh Hete			
2	Rudrapratap Somwanshi	Mr.A. K. Duchakke	Mr.D.A.Shahakar	Mr.A.P.Pundkar
	Sarwesh Raghuwanshi			
	Indrajeet Rum			
	Shreyas Landge			
	Yashodeep Pakhre			
	Anand Matkar			
3	Shubham Mahulkar	Ms. S.V. Kalmegh	Ms.P.R.Rane	Mr.S.V.Sonkhaskar
	Pooja Mondhe			
	Prajakta Shirrao			
	Komal Pimpalkar			
	Harshal Kaikade			
	Sampada Wankhade			
4	Palak Jaiswal	Mrs. Y.D. Shahakar	Mr.S.A.Jalit	Mr.A.P.Pundkar
	Rutuja Madhav Tidake			
	Renuka Vijay Navghare			
	Tarika Govindrao Kale			
	Nisha Ratale			
	Anjali warkad			
5	Vyanktesh Shrikrushna Hande	Mr. S.A. Jalit	Mr.D.A.Shahakar	Ms. S.V. Kalmegh
	Shashikant Deshmukh			
	Abhishek Umbarkar			
	Mayur Deshmukh			
	Adarsh Gadge			
	Hemant Dhok			
6	Tushar Khande	Mr. A. P. Pundkar	Dr.S.B.Warkad	Mr.A. K. Duchakke
	Sanket Kakde			
	Viraj Zambre			
	Prashant Chauhan			
	Ishaque Sheikh			
	Gopal Chude			
7	Rushikesh a Banagle	Dr.S.B. Warkad	Mrs.Y.D.Shahakar	Mr.S.V.Sonkhaskar
	Rushikesh Wankhade			
	Pradumnya Gangane			
	Nandini Sonar			
	Vaishanavi Mandwale			
8	Manashri Rajendrarao Nerkar.	Mr.S.V.Sonkhaskar	Ms.P.M. Mankar	Mr.A. K. Duchakke
	Gauri Yawale.			
	Prachi Vaidya.			
	Prathamesh Tarale.			
	Prajwal Gawai.			
	Karan Band			
	Prassana Gulaxe			



9	Abhinav Gangiwale	Mr. A.P. Pundkar	Mr. S.A. Jalit	Ms. S.V. Kalmegh
	Swapnil Bhad			
	Sushil Karhale			
	Ashutosh Jawanjale			
	Roshan R Vairalkar			
11	Hemsiddhi Sanjay Kayande	Mr. D.A. Shahakar	Ms. P.M. Mankar	Mr. A. K. Duchakke
	Anushri Kanhojkar			
	Deepali Aher			
	Ashwini Ingle			
	Saurabh Vyavhare			
12	Bhagyashri Ban	Ms. S.V. Kalmegh	Ms. P.M. Mankar	Mr. A.P. Pundkar
	Sakshi Thote			
	Shrutika Bijwe			
	Prajvali Meshram			
	Pranali Bobade			
13	Tushar Mohurle	Ms. P.M. Mankar	Ms. P.R. Rane	Mr. A.A. Ghute
	Dinanath Komrekar			
	Mayur Shinde			
	Sakshi Thakre			
	Mayuri Mahajan			
14	Prathamesh Umap	Dr. A.S. Telang	Mr. A.A. Ghute	Mr. S.V. Sonkhaskar
	Prashant Datey			
	Ajay Ingle			
	Nikhil Kaikade			
	Dhiraj Dhoke			
15	Vaibhav Malokar	Mr. A.A. Ghute	Dr. A.S. Telang	Mr. S.A. Jalit
	Ajay Kandarkar			
	Mukesh Dhale			
	Dipti Nimkarde			
	Nikita Gawande			
16	Arati Sunil Lande	Ms. P.M. Mankar	Ms. S.V. Kalmegh	Mrs. Y.D. Shahakar
	Pratiksha Gondane			
	Darshana Kedar			
	Bhushan chaware			
	Neha Rathod			
17	Mandar Wajpe	Mr. D.A. Shahakar	Mr. A.A. Ghute	Dr. S.B. Warkad
	Ravindra Rakhonde			
	Tejas Puri			
	Nikhil Chaudhari			
	Vikas Dhule			
	Hrushikesh Chinchkhede			
18	Mrunal Choudhary	Prof. P. R. Rane	Ms. P.M. Mankar	Mrs. Y.D. Shahakar
	Saurabh Mishra			
	Arpita Gadekar			
	shruti Dongre			
	Tanaya Bhombe			
	Aaditya Mankar			

Project Incharge  
(Prof. A. K. Duchakke)

*A. K. Duchakke*  
H. HOD (Elect. Dept.)  
(Prof. P. A. Shahakar)  
College of Engg. & Management  
Amravati

**P.R. Pote (Patil) College of Engineering & Management, Amravati**  
**Department of Electrical Engineering**  
**Project Group -Session 2021-22**

**Schedule-Project Presubmission Seminar - 27th & 28th April 2022**

Sr.No.	Group	Name of Guide & PRC Member		
		Guide	PRC-1	PRC-2
1	Vaishnavi Sunilrao Shirbhate	Mrs. Y.D. Shahakar	Mr.A.A.Ghute	Mr. A.P.Pundkar
	Yogini Yashwant Chauragade			
	Hariti Vinod Raut			
	Samiksha Jaykumar Dhote			
	Sharvaree Vasant Raut			
2	Anand Mugal	Dr. A.S. Telang	Ms.P.M. Mankar	Mr.S.V.Sonkhaskar
	Sanit Isal			
	Naved Khan			
	Sopan Lipte			
	Tejas Jawanjai			
3	Avantika R. Devikar	Ms. P.R. Rane	Mr.D.A.Shahakar	Mr.. A.K.Duchakke
	Grishma Bhalavi			
	Komal Agarkar			
	Akshay Dhurde			
	Akash Nawalkar			
4	Pawan Baliram Ingle	Mr. A.P.Pundkar	Mr S.A.Jalit	Mr.S.V.Sonkhaskar
	Shilvant Devendra Hatole			
	Kashyap Pramod Bodile			
	Prashik Arun Tayade			
	Sumit Balkrushna Patkar			
5	Rani B. Sakhe	Ms. P.M. Mankar	Dr.S.B. Warkad	Mr. A.P.Pundkar
	Ruchita Charate			
	Snehal Pojage			
	Sagar Deshmukh			
	Rutuja Dhawane			
6	Aniket Ghurde	Mr. S.A. Jalit	Dr.A.S.Telang	Mr.D.A.Shahakar
	Himanshu Dakode			
	Prajwal Parve			
	Yashraj Mandpe			
	Roshan Bhakare			
7	Kajal Ingale	Dr. S.B.Warkad	Ms. P.R. Rane	Mr.A.A.Ghute
	Vaishnavi Awaghad			
	Vaishnavi Dahane			
	Shardhha Ingole			
	Pallavi Pakhale			
8	Pranali Pakhale	Mr.. A.K.Duchakke	Mrs.Y.D.Shahakar	Ms. S.V. Kalmegh
	Sham Bhatusing Rathod			
	Kanchan Ganeshrao Makode			
	Dipak Dilip Rathod			
	Pankaj Jatale			
9	Anushree Shivanand Khandokar	Mr. D.A.Shahakar	Mr.S.A.Jalit	Mr.. A.K.Duchakke
	Shubham Katore			
	Bhavana Mule			
	Anuja Thakare			
	Aniket Balveer			
Vijay Taksande				

	Sheikh Maroof Kanchan Khandare			
10	Mayur Thorat Krishna Wankhede Vaishnavi bhuyarkar Hitesh bhurghate Priti sanjay Ingale Ram Malkhede	Ms. S.V. Kalmegh	Mrs.Y.D.Shahakar	Dr.S.B.Warkad
11	Rhushikesh Ingole Rutik Bisane Pranav Chikate Prathamesh Tigane Tejas Gulhane Shubham Waware	Mr. A.A. Ghute	Dr.A.S.Telang	Ms. S.V. Kalmegh
12	Abhishek Shinde Akash modhe Pranav Chaudhari Abhinav Shinde Saurabh Bhandare	Mrs. Y.D. Shahakar	Ms. P.R. Rane	Mr.A.A.Ghute
13	Jagdish Pote Divyani Aher Gauri Khate Sarika Chavan Rutiksha Shevatkar	Dr. A.S. Telang	Dr.S.B. Warkad	Mr. S.A. Jalit
14	Tejas Kale Aman Waghmare Rutik Hiwse Aditya Dongre Rahul Bhagat Rutwik Holey	Mr. A.A. Ghute	Mr.D.A.Shahakar	Mr.S.V.Sonkhaskar

Project Incharge  
(Prof. A. K. Duchakke)

*D. A. Shahakar*  
HOD  
(Prof. D.A. Shahakar)  
H.O.D. (Elect. Engg.)  
P.R. Pote (Pstl) College of Engg. & Management  
Amravati.

Project and Guide Finalization Format

P. R. Pote (Patil) Education & Welfare Trust's Group  
of Institutions College of Engg. & Mangement, Amravati

Department of Electrical Engineering

Final Year B. E. Academic Year (21-22)

Project & Guide Finalisation Format

Name of Students (in Block Letters)

1. AVANTIKA DEVIKAR (Roll No/Enrollment No. 21BM710281)
2. GRISHMA BHAIKAVI (Roll No/Enrollment No. 21BM710295)
3. KOMAL AGARKAR (Roll No/Enrollment No. 21BM710311)
4. AKSHAY DHURDE (Roll No/Enrollment No. 21BM710269)
5. AKASH NAVALKAR (Roll No/Enrollment No. 21BM710264)
6. \_\_\_\_\_ (Roll No/Enrollment No. \_\_\_\_\_)

Area of Proposed Project: 1) Electrical Power System  
2) Machines  
3) \_\_\_\_\_

Proposed Project Titles: Transformer Parameter monitoring

Whether it is Industry application based Project? Yes/no (Tick ✓)

If yes, give details of Industry Visited -

Name & Address of Industry: \_\_\_\_\_

Contact person and Designation: \_\_\_\_\_

Name of Proposed Guide: 1) P. R. Rame 2) A. K. Dushakke

Remarks of Guide: 1) Students can proceed with the mentioned topic

Remarks of Guide: 2) Students are interested to do project with mentioned topic

Signature of Students 1) Avantika 2) Grishma 3) Komal

4) Akshay 5) Akash 6) \_\_\_\_\_

P. R. Rame

Signature of Guide 1

A. K. Dushakke

Signature of Guide 2

Project and Guide Finalization Format

Academic use only (Not to be filled by Student)

Name of Students (In Block Letters)

- |                            |   |
|----------------------------|---|
| 1. <u>AVANTIKA DEVIKAR</u> | (Roll No/Enrollment No. <u>21BM710281</u> ) |
| 2. <u>GRISHMA BALVIR</u>   | (Roll No/Enrollment No. <u>21BM710295</u> ) |
| 3. <u>KOTPAL AGARKAR</u>   | (Roll No/Enrollment No. <u>21BM710311</u> ) |
| 4. <u>AKSHAY DURDE</u>     | (Roll No/Enrollment No. <u>21BM710265</u> ) |
| 5. <u>AKASH NAVALKAR</u>   | (Roll No/Enrollment No. <u>21BM710264</u> ) |
| 6. _____                   | (Roll No/Enrollment No. _____)              |

Area of Proposed Project: Power system / Electrical machines

Proposed Project Titles: Transformer parameter monitoring.

Name of Allotted Guide: Prof. P. R. Ram

I hereby agree to guide the above mentioned students working on the proposed project.

Prof: P. R. Ram  
(Name of the Guide)

Prof. P.R.  
(Signature of Guide with date)

Name of Project Review Committee (PRC) Member:

1) Prof. D. A. Shahakar

2) Prof. A. K. Dushakke



Signature of PRC Member 1



Signature of PRC Member 2



Signature of Project Coordinator



Signature of Head of Department  
H.O.D. (Electrical)  
P.R. Pote (Patil) College of Engg. & Management  
Amravati.

**P.R.Pote (Patil) Education & Welfare Trust's Group of Institutions College of Engg & Management, Amravati**  
**Department of Electrical Engineering**  
**Odd/Even Semester - Academic Year ( 2021-22 )**

**Project Diary**

Title of Project : Transformer Parameter monitoring by IOT  
 Name of Project Guide : Prof. P.R.Rane

Sr.No	Name of Project Group	Date of Visit with Guide	Student Present/Absent	Project work Discussed	Project work assigned by Guide	Remark
1.	AVANTIKA DEVIKAR	05/02/22	Present	Discussion regarding area of interest and std ref paper survey.	Topic is to be finalized	Satisfactory
2.	Grushma Balvin		Present			
3.	Komal Agarkar		Present			
4.	Akshay Dhumde		Absent			
5.	AKASH Navalkar		Present			
6.						
7.						
1	Avantika Devikar	12/03/22	Present	Literature survey and list of components / Rating of components to be used	components, its ratings and cost information to be collected.	upto 1st week
2	Grushma Balvin		Absent			
3	Komal Agarkar		Present			
4	Akshay Dhumde		Present			
5	AKASH Navalkar		Present			
6						
7						

**Note:**

1. Project Diary is to be maintained by Project Guide only
2. Every week meeting to be planned with project Group
3. Check Project work assigned by Guide in the next meeting
4. In Remark column, please mark level of satisfaction with project group
5. Please verify project Diary with HOD in every Project Defining/Project Review Seminar

P.R.Pote (Patil) Education & Welfare Trust's Group of Institutions College of Engg & Management, Amravati  
 Department of Electrical Engineering  
 Odd/Even Semester - Academic Year ( 2021-22 )  
 Project Diary

Title of Project : Transformer Parameter monitoring by IoT  
 Name of Project Guide : Prof. P. R. Rame

Sr.No	Name of Project Group	Date of Visit with Guide	Student Present/Absent	Project work Discussed	Project work assigned by Guide	Remark
1	Avantika Devikar	31/04/22	Present	Discussion on publication & actual working of prototype model	Should present the working of prototype model	Satisfact
2	Grishma Bhalvi		Present			
3	Komal Agarkan		Present			
4	Akshay D Kunde		Present			
5	AKASH Nawalkar		Present			
6						
7						
1	Avantika Devikar	30/04/22	Present	Publication & Thesis writing	Should have one publication before submission	Satisfact
2	Grishma Bhalvi		Present			
3	Komal Agarkan		Present			
4	Akshay D Kunde		Present			
5	AKASH Nawalkar		Absent			
6						
7						

**Note:**

1. Project Diary is to be maintained by Project Guide only
2. Every week meeting to be planned with project Group
3. Check Project work assigned by Guide in the next meeting
4. In Remark column, please mark level of satisfaction with project group
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P.R.Pote (Patil) Education and Welfare Trust's Group of Institute College of Engineering & Management, Amravati

Department of Electrical Engineering

8<sup>th</sup> Semester B.E (Academic Year: 21-22 )

Project Defining Seminar Evaluation Sheet

Title of project work: *Transformer Parameter monitoring by IoT*

Name of Guide: *P.R. Rane*

Roll No.	Name of Student	PRC Member 1 (J1)				PRC Member 2 (J2)				Average Total of (J1+J2)(25)	Project Guide Valuation Marks(25)	Total Marks(50)
		1 (10)	2 (5)	3 (10)	ToT J1(25)	1 (10)	2 (5)	3 (10)	ToT J2(25)			
	<i>Avantika Devikan</i>	<i>9</i>	<i>5</i>	<i>9</i>	<i>23</i>	<i>8</i>	<i>5</i>	<i>10</i>	<i>23</i>	<i>23</i>	<i>23</i>	<i>46</i>
	<i>Gulshma Bhalavi</i>	<i>9</i>	<i>5</i>	<i>9</i>	<i>23</i>	<i>9</i>	<i>5</i>	<i>9</i>	<i>23</i>	<i>23</i>	<i>23</i>	<i>46</i>
	<i>Kamal Agarkar</i>	<i>9</i>	<i>4</i>	<i>10</i>	<i>23</i>	<i>9</i>	<i>4</i>	<i>10</i>	<i>23</i>	<i>23</i>	<i>23</i>	<i>46</i>
	<i>Akshay Dhunde</i>	<i>10</i>	<i>4</i>	<i>9</i>	<i>23</i>	<i>10</i>	<i>4</i>	<i>9</i>	<i>23</i>	<i>23</i>	<i>23</i>	<i>46</i>
	<i>AKASH Navalkar</i>	<i>8</i>	<i>5</i>	<i>10</i>	<i>23</i>	<i>8</i>	<i>5</i>	<i>10</i>	<i>23</i>	<i>23</i>	<i>23</i>	<i>46</i>

Valuation Criterion: 1. Project Report And Content (From project defining Seminar to project review Seminar-5) (Marks -10)

2: Presentation (Marks -5)

3: Completion (Final Result/Observation/publication if any) of proposed project work (Marks -10)

PRC Member Suggestion:

*[Signature]*  
Signature, PRC Member 1

*[Signature]*  
Signature, PRC Member 2

*[Signature]*  
Signature, PRC project guide

*[Signature]*  
Signature, project coordinator

*[Signature]*  
Signature, HOD  
H.O.D. (Elect. Dept.)  
P.R.Pote (Patil) College of Engg. & Management  
Amravati.



Project Evaluation		Year: 2021-22	
SN	PRC Members Final Observation/ Queries / Suggestion	PRC Members Final Remark	Signature
1	<ul style="list-style-type: none"> <li>Literature review is required</li> <li>Basic Knowledge of Transformer is necessary</li> </ul>	Satisfactory	Prane
2	<ul style="list-style-type: none"> <li>Repetious literature survey is required and refer old papers</li> </ul>	Satisfactory	Prane

PRC Member should Evaluate Point 3 i.e "Final Observation/ Queries / Suggestion about proposed project work (Marks -10)" with reference to:

1. Answers to the queries/changes/modifications as suggested in previous seminar(2 Marks)
2. Status of project work completed as per given / mentioned schedule (6 Marks)
3. Recommendation for final submission of project work (2 Marks)

P.R.Pote (Patil) Education and Welfare Trust's Group of Institute College of Engineering & Management, Amravati

Department of electrical Engineering

8<sup>th</sup> Semester B.E. (Academic Year: 2021-22)

Project Review Seminar Evaluation Sheet

Title of project work: Transformer Parameter monitoring by IoT

Name of Guide: Prof. P R Rane

Roll No.	Name of Student	PRC Member 1 (J1)				PRC Member 2 (J2)				Average Total of (J1+J2)(25)	Project Guide Valuation Marks(25)	Total Marks(50)
		1 (10)	2 (5)	3 (10)	ToT J1(25)	1 (10)	2 (5)	3 (10)	ToT J2(25)			
	Avantika Devikan	9	5	9	23	10	4	9	23	23	23	46
	Grushma Bhalavi	10	4	9	23	9	5	9	23	23	23	46
	Romal Agarkar	9	4	10	23	9	4	10	23	23	23	46
	Akshay Ghunde	9	5	9	23	10	4	9	23	23	23	46
	AKASH Nawalkar	10	4	9	23	9	5	9	23	23	23	46

Valuation Criterion: 1. Project Report And Content (From project defining Seminar to project review Seminar-5)(Marks -10)

2: Presentation (Marks -5)

3: Completion (Final Result/Observation/publication if Any) of proposed project work (Marks -10)

PRC Member Suggestion:

Signature, PRC Member 1

Signature, PRC Member 2

Signature, PRC project guide

Signature, project coordinator

Signature, HOD  
H.O.D. (Elect. Dept.)

P.R.Pote (Patil) College of Engg. & Management  
Amravati.

Project Evaluation		Year :	
SN	PRC Members Final Observation/ Queries / Suggestion	PRC Members Final Remark	Signature
1	Actual calculations for deciding rating of components is to be known	Satisfactory	
2	Should study the basic knowledge of components & its ratings.	Satisfactory	

PRC Member should Evaluate Point 3 i.e. "Final Observation/ Queries / Suggestion about proposed project work (Marks -10)" with reference to:

1. Answers to the queries/changes/modifications as suggested in previous seminar (2 Marks)
2. Status of project work completed as per given / mentioned schedule (6 Marks)
3. Recommendation for final submission of project work (2 Marks)

P.R.Pate (Patil) Education and Welfare Trust's Group of Institute College of Engineering & Management, Amravati

Department of Electrical Engineering

8<sup>th</sup> Semester B.E {Academic Year: 2021-22 }

Project Presubmission Seminar Evaluation Sheet

Title of project work: *Transformer Parameter Monitoring by IoT*

Name of Guide: *Prf. P. R. Rane*

Roll No.	Name of Student	PRC Member 1 (J1)				PRC Member 1 (J1)				Average Total of(J1+J2)(25)	Project Guide Valuation Marks(25)	Total Marks(50)
		1 (10)	2 (5)	3 (10)	ToT J1(25)	1 (10)	2 (5)	3 (10)	ToT J2(25)			
	<i>Avanika Devikan</i>	<i>10</i>	<i>4</i>	<i>9</i>	<i>23</i>	<i>9</i>	<i>5</i>	<i>9</i>	<i>23</i>	<i>23</i>	<i>23</i>	<i>46</i>
	<i>Krishna Bhalavi</i>	<i>9</i>	<i>5</i>	<i>9</i>	<i>23</i>	<i>10</i>	<i>4</i>	<i>9</i>	<i>23</i>	<i>23</i>	<i>23</i>	<i>46</i>
	<i>Ronal Agarkar</i>	<i>9</i>	<i>4</i>	<i>10</i>	<i>23</i>	<i>9</i>	<i>4</i>	<i>10</i>	<i>23</i>	<i>23</i>	<i>23</i>	<i>46</i>
	<i>Akshay Dhunde</i>	<i>10</i>	<i>4</i>	<i>9</i>	<i>23</i>	<i>9</i>	<i>5</i>	<i>9</i>	<i>23</i>	<i>23</i>	<i>23</i>	<i>46</i>
	<i>Arash Nawalkar</i>	<i>9</i>	<i>5</i>	<i>9</i>	<i>23</i>	<i>10</i>	<i>4</i>	<i>9</i>	<i>23</i>	<i>23</i>	<i>23</i>	<i>46</i>

Valuation Criterion: 1. Project Report and Content (From Project defining Seminar to Project review Seminar-5) (Marks -10)

2: Presentation (Marks -5)

3: Completion (Final Result/Observation/Publication if Any) of proposed project work (Marks -10)

PRC Member Suggestion:

*[Signature]*  
Signature, PRC Member 1



*[Signature]*  
Signature, PRC Member 2

*[Signature]*  
Signature, PRC project guide

*[Signature]*  
Signature, project coordinator

*[Signature]*  
Signature, HOD

P.R.Pate (Patil) College of Engg. & Management  
Amravati.

Project Evaluation		Year :	
SN	PRC Members Final Observation/ Queries / Suggestion	PRC Members Final Remark	Signature
1.	Publication is required.	Satisfactory	
2.	Calculations for actual transformer are required.	Satisfactory.	

PRC Member should Evaluate Point 3 i.e. "Final Observation/ Queries / Suggestion about proposed project work (Marks -10)" with reference to:

1. Answers to the queries/changes/modifications as suggested in previous seminar(2 Marks)
2. Status of project work completed as per given / mentioned schedule (6 Marks)
3. Recommendation for final submission of project work (2 Marks)



**P. R. Pote Patil Edu. & Welf. Trust's, Group of Institutions,  
College of Engineering & Management, Amravati** Institute Code : 1107

(Recognized by AICTE, New Delhi, Approved by Govt. of Maharashtra & Affiliated to SGBAU, Amravati)

- Kathora Road, Amravati, Maharashtra, India
- Ph. No. : +91-721-2970110, Fax No. : +91-721-2530089, Email : prpotepatilcollege@gmail.com
- Web. : www.prpcem.org, www.prpatilcollege.org



## Mechanism to deal with internal/external examination related grievances

### INDEX

S.N.	Description
1	Examination Grievance Committee
2	Exam Cell Notice & MOM
3	Internal Question Paper with Scheme & Key
4	Student Grievances



*Amalika*  
Principal  
P. R. Pote Patil  
College of Engineering & Management  
Amravati



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Ref. No. PRPCOEM/Off. Order/11/2021-22

Date: 01-08-2021

**Office Order**

This is in continuation of the office order Ref. No. PRPCOEM/05/ Off. Order/2020-21 dated-06-08-2020 few changes are required to be made and the final Examination Cell is constituted as follows-

Sr. No.	Name	Designation	Department
01	Prof. G. D. Nagoshe	Incharge	EXTC
02	Prof. Y. D. Shahakar (Khair)	Member	Electrical
03	Prof. Abdul Sayeed AW Shaikh	Member	Mechanical
04	Prof. P. S. Gandhak	Member	Civil
05	Prof. D. C. Dhanwani	Member	CSE
06	Prof. Simi S. Khan/ Prof. S. S. Nerkar	Member	Applied science & Humanities
07	Prof. R. A. Sharma (Mahule)	Member	MCA
08	Prof. Ms. P. W. Nimbhorkar	Member	MBA
09	Mr. Rahul Kantole	Member	Sup. Staff
10	Mr. Shivcharan Patil	Member	Peon

Above faculty members are supposed to carry out the activities required for smooth conduct of college level examination as well as university level examination also.

*A. V. Kale*  
Principal  
Dr. A. V. Kale



**Session: 2021-22**

**Institute Level Examination Grievance Committee**

S. N.	Name of Faculty	Designation	Department
1	Prof. G. D. Nagose	Incharge	EXTC
2	Prof. Y.D. Shahakar	Member	Electrical
3	Prof. Abdul Sayeed AW Shekh	Member	Mechanical
4	Prof. P.S. Gandhak	Member	Civil
5.	Prof. D.C. Dhanwani	Member	CSE
6	Prof. Simi S. Khan/Prof. S.S. Nerkar	Member	First Year
7	Prof. R.A. Sharma(Mahule)	Member	MCA
8	Prof. P.W. Nimbhorkar	Member	MBA
9	Prof. V.G.Gore	OIC	Mechanical
10	Mr. Rahul Kantole	Sup. Staff	Mechanical
11	Mr. Shivcharan Patil	Peon	-



*Anil*  
Principal  
P. R. Pote Patil  
College of Engineering & Management  
Amravati





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- Web. : www.prpcem.org, www.prpatilcollege.org



## Moderation Committee

Academic Session -2021-22

Department – Electrical Engineering

S. No.	Name of Faculty	Designation
1	Dr. A.S. Telang	Chairman
2	Dr. S. B. Warkad	Member
3	Prof. S.A. Jalit	Member

  
H.O.D. (Elect. Dept.)  
P.R.Pote (Patil) College of Enng. & Management  
Amravati.



**P. R. Pote Patil Edu. & Welf. Trust's, Group of Institutions,**  
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- Web. : www.prpcem.org, www.prpatilcollege.org



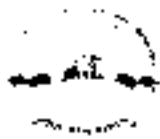
## Grievance Committee

Academic Session -2021-22

Department – Electrical Engineering

S. No.	Name of Faculty	Designation
1	Prof. D.A. Shahakar	Chairman
2	Prof. P. R. Rane	Member
3	Prof. A. A. Ghute	Member

  
H.O.D. (Elect. Dept.)  
P.R.Pote (Patil) College of Engg. & Management  
Amravati.



- Kathra Road, Amravati, Maharashtra, India
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- Web. : [www.prpsem.org](http://www.prpsem.org), [www.prpaticollege.org](http://www.prpaticollege.org)

PRPCEM EXAMICEE No. 01

Date: 01/05/22

Reference No.: PRPCEM UNIT TEST EXAM 2021-22, Dated 02/04/2022

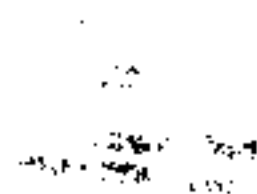
### NOTICE

All the departmental Unit Test coordinator hereby notified that the 2<sup>nd</sup> unit test will be held from 19 May 22 through 22 May 2022.

Note –

1. Mode of Conduction – Offline
2. Please followed all deadline regarding paper submission, result display, Grievances report and final result display

Enclosure - Paper Guidelines



05/09/20, 1:25 PM

Gmail - Sub: Unit test: conduction



Gajanan Nagoshe <gnagoshe@gmail.com>

**Sub: Unit test conduction**

1 message

Gajanan Nagoshe <gnagoshe@gmail.com>

T

Mon, Sep, 2020 at 1:25 PM To: asshakti@prpocpatilengg.ac.in, deepak d dhanwani@gmail.com, sriharakamrunak@gmail.com, prajyogandhak12@gmail.com, rachanamahue@gmail.com, prinitibhokra28@gmail.com, smisadaf54@rediffmail.com, sheetalnerkar03@gmail.com

**Respected exam cell team members (Acc. Session winter 20-21)**

**As per the guidelines given by Exam Committee PRPCEM,**

- 1. Unit test 1 should be conducted in online mode due to pandemic situation during 14/09/20 to 18/09/20**
- 2. Dept coordinator will prepare time table as per schedule mentioned and display it on google classroom**
- 3. Concern teacher will publish paper in google class room on schedule prescribed in timetable**
- 4. Paper pattern will be same (descriptive)**
- 5. Students will write answer on paper and submit pdf of answer sheet in google class room or concern teacher email id.**
- 6. There is no change in valuation scheme**

**Above are the guidelines to conduct unit test in online mode if you have any query than please contact me**

**Thank you**

Regards,  
Prof. G. D. Nagoshe  
Asst. Professor, Dept. Electronics & Telecommunication  
gnagoshe@prpocpatilengg.ac.in, gajanan.nagoshe@prpocpatilengg.ac.in  
075568544984  
(PRPCEM Amravati)

01/11/21, 3:25 PM

Gmail - Sub: Unit test conduction



Gajanan Nagoshe <gnagoshe@gmail.com>

## Sub: Unit test conduction

1 message

Gajanan Nagoshe <gnagoshe@gmail.com>

Tue, Dec, 2020 at 3:25 PM To: ashakli@prpoteptelengg.ac.in, Deepak Chhanwani@gmail.com, shahakamunal@gmail.com, prajyotgandhak12@gmail.com, rachanamahule@gmail.com, primbhorkar26@gmail.com, sim.sadaf84@rediffmail.com, sheetalnerkar09@gmail.com

**Respected exam cell team members (Acc. Session winter 20-21)**

**As per the guidelines given by Exam Committee PRPCEM,**

- 1. Unit test 2 should be conducted in online mode due to pandemic situation during 14/09/20 to 16/09/20**
- 2. Dept coordinator will prepare time table as per schedule mentioned and display it on google classroom**
- 3. Concern teacher will publish paper in google class room on schedule prescribed in timetable**
- 4. Paper pattern will be same (descriptive)**
- 5. Students will write answer on paper and submit pdf of answer sheet in google class room or concern teacher email id.**
- 6. There is no change in valuation scheme**

**Above are the guidelines to conduct unit test in online mode if you have any query than please contact me**

**Thank you**

Regards  
Prof. G D Nagoshe  
Asst Professor, Dept. Electronics & Telecommunication  
gnagoshe@gmail.com, gajanan.nagoshe@prpocem.org  
075588544884  
(PRPCEM, Amravati)

05/04/21, 4:25 PM

Gmail - Sub: Unit test conduction



Gajanan Nagoshe <gnagoshe@gmail.com>

**Sub: Unit test conduction**

1 message

Gajanan Nagoshe <gnagoshe@gmail.com>

Mon, Apr 20, 2021 at 4:25 PM To: assnakh@prpceplengg.ac.in, deepak.dhanwan@gnail.com, shahakamrunal@gmail.com, prajyorgandhak12@gmail.com, rachanamahule@gmail.com, primbhorkar23@gmail.com, smsidal64@rediffmail.com, sheetalnarka03@gmail.com

**Respected exam cell team members (Acc. Session winter 20-21)**

**As per the guidelines given by Exam Committee PRPCEM,**

- 1. Unit test 1 should be conducted in online mode due to pandemic situation during 15/04/21 to 22/04/21**
- 2. Dept coordinator will prepare time table as per schedule mentioned and display it on google classroom**
- 3. Concern teacher will publish paper in google class room on schedule prescribed in timetable**
- 4. Paper pattern will be same (descriptive)**
- 5. Students will write answer on paper and submit pdf of answer sheet in google class room or concern teacher email id.**
- 6. There is no change in valuation scheme**

**Above are the guidelines to conduct unit test in online mode if you have any query than please contact me**

**Thank you**

Regards,  
Prof. G. D. Nagoshe  
Asst. Professor, Dept. Electronics & Telecommunication  
gnagoshe@gmail.com gajanan.nagoshe@prpceplengg.ac.in  
075588544884  
| PRPCEM, Amravati

15/05/21 2:25 PM

Gmail - Sub. Unit test conduction

Gajanan Nagoshe <gnagoshe@gmail.com>

## Sub: Unit test conduction

1 message

Gajanan Nagoshe <gnagoshe@gmail.com>

Sat, May 2021 at 2:25 PM To: asshakhi@prpolepablenng.ac.in, deepak c dhanwani@gmail.com, shahkamrunal@gmail.com, prajyotgandhak12@gmail.com, rachanamahule@gmail.com, prmbherkar26@gmail.com, simisads184@rediffmail.com, sheetalherkar03@gmail.com

**Respected exam cell team members (Acc. Session winter 20-21)**

**As per the guidelines given by Exam Committee PRPCEM,**

- 1. Unit test 2 should be conducted in online mode due to pandemic situation during 24/05/21 to 28/05/21**
- 2. Dept coordinator will prepare time table as per schedule mentioned and display it on google classroom**
- 3. Concern teacher will publish paper in google class room on schedule prescribed in timetable**
- 4. Paper pattern will be same (descriptive)**
- 5. Students will write answer on paper and submit pdf of answer sheet in google class room or concern teacher email id.**
- 6. There is no change in valuation scheme**

**Above are the guidelines to conduct unit test in online mode if you have any query then please contact me**

**Thank you**

Regards

Prof G D Nagoshe

Asst Professor Dept Electronics & Telecommunication

gnagoshe@gmail.com, asgajananagoshe@prpcem.ac.in

075588544884

; PRPCEM, Amravati)

P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions  
 College of Engg. & Management, Amravati  
 Department of Electrical Engineering  
 Shift -I/II/III

## Re-Unit Test-I (Online)

Odd Semester (Session:2021-22)

### Notice

All, the following staff members, are hereby requested to set the question paper for upcoming Re-Unit Test-I as per paper setting guidelines, in the PDF format and upload the same in the google classroom on the scheduled date and time. Also submit the question paper in the standard format which is attached with this, in hard as well as soft copy to the Internal Examination in charge on or before 23/10/2021. The Unit Test I is schedule from 27/10/2021.

### Note:

1. Questions paper should be prepared as per attached format (Model Question Paper) by referring paper setting guidelines.
2. All Questions are compulsory (Q.1A ,Q.1B (Unit I) & Q.2 A, Q.2 B (Unit II)
3. Submit Question paper along with scheme of Evaluation.
4. After moderation, Submit question paper to the earliest in hardcopy as well as soft copy as per suggested modifications, if any.
5. Question Papers should be same for each shift.
6. Question Paper should be of 30 Marks including two units.

### Subject Teachers:

Subject	Faculty	Sign	Subject	Faculty	Sign	Subject	Faculty	Sign
M-III (3EP01)	Prof.S.S.Nerkar		PS-I (5EP01)	Prof.S.A.Jalit		CS-II (7EP01)	Dr.A.S.Telang	
ECA (3EP02)	Prof.D.A.Shahakar		MPMC (5EP02)	Prof.U.W.Hore		PSOC (7EP02)	Prof.P.R.Rane	
ERG (3EP03)	Prof.A.A.Pundkar		EMC-II (5EP03)	Prof.A.A.Ghute		EP-II (7EP03)	Prof.A.K.Duchakke	
EDC (3EP04)	Dr.V.B.Padole		PE-I *(5EP04)	Prof.P.M.Mankar		SGP (7EP04)	Dr.S.B.Warkad	
EMC-I (3EP05)	Prof.S.V.Kalmegh		OE- I**(5EP05)	Prof. M.G. Walecha		CMPSA (7EP05)	Prof.Y.D.Shahakar	

Prof.Y.D.Shahakar  
 (Unit Test I/C)

Prof.D.A.Shahakar  
 (HOD)



PP/EE/RE/Exam/1/2021/22

V. R. Pote (Pate) Education & Welfare Trust's Group of Institutions

College of Engg. & Management, Amravati

Department of Electrical Engineering

**Shift -I /II/III**

**Re-Unit Test-I**


**Odd Semester (Session 2021-22)**

### Notice

All the students of 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> yr are hereby informed that *Re-Unit Test-I* is scheduled from 27/10/2021 to 30/10/2021 on Google Class Room. It is compulsory to attend the same for internal assessment. The scheduled is attached herewith. All have to present on the scheduled time and date.

**Note 1.** Syllabus for *Re-Unit Test I*: Unit I & II Prescribed by Concerned Subject Teacher

2. Questions paper will be of 30 Marks
3. All Questions are compulsory (Solve Q1. A, Q1. B and Q2. A, Q2. B)
3. Answer sheet should be upload on google classroom within given time otherwise it will be marked as an absent.

  
Prof. Y.D. Shahakar  
(Unit Test I/C)

  
Prof. D.A. Shahakar  
(HOD)

P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions College  
of Engg. & Management, Amravati

Department of Electrical Engineering

Time Table (Odd SEM- 2021-22)

Re-Unit Test-I (Shift-I/II/III)

2<sup>nd</sup> Year

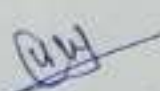
Date	Day	Subject	Time
27/10/2021	Wednesday	M-III	3.30PM-5.00PM
28/10/2021	Thursday	ECA	3.30PM-5.00PM
29/10/2021	Friday	ERG	3.30PM-5.00PM
30/10/2021	Saturday	EMC-I	3.30PM-5.00PM
		EDC	6.00PM-7.30PM

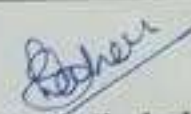
3<sup>rd</sup> Year

Date	Day	Subject	Time
27/10/2021	Wednesday	PS-I	3.30PM-5.00PM
28/10/2021	Thursday	MPMC	3.30PM-5.00PM
29/10/2021	Friday	EMC-II	3.30PM-5.00PM
30/10/2021	Saturday	OE-I	3.30PM-5.00PM
		PE-I(SS)	6.00PM-7.30PM

4<sup>th</sup> Year

Date	Day	Subject	Time
27/10/2021	Wednesday	CS-II	3.30PM-5.00PM
28/10/2021	Thursday	PSOC	3.30PM-5.00PM
29/10/2021	Friday	EP-II	3.30PM-5.00PM
30/10/2021	Saturday	SGP	3.30PM-5.00PM
		CMPSA	6.00PM-7.30PM

  
Prof. Y. D. Shahakar  
Unit Test Incharge

  
Prof. D. A. Shahakar  
H.O.D.



## Departmental Unit Test

**P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions**  
**College of Engg. & Management, Amravati**  
**Department of Electrical Engineering**  
**Unit Test-I (Online)**  
**Even Semester (Session : 2020-21)**  
**Second Year**

### Notice

All the following staff members are requested to create question paper of **Unit Test-I** in PDF format and upload the same in the google classroom on the scheduled date and time. Also send the question paper in the following pattern in soft copy format ([shahakarmrunal@gmail.com](mailto:shahakarmrunal@gmail.com)) on or before **24/03/2021** to the Exam I/C. The Unit Test is schedule from **27/03/2021**.

### **Note:**

1. Question Papers should be same for each class.
2. Question Paper should be of 30 Marks including two units.(Descriptive type)
3. Questions should include the terms as per Bloom's Taxonomy.

### **Instructions to upload the paper:**

1. Go to Google Classroom
2. Go to Class work
3. Click on Create
4. Click on Assignment

**Title:** Name of subject (Eg. CMPSA Unit Test –I Paper)

**Instructions:** if any

**For:** Respective Year & All students

**Points:**30

**Due:** Due date & time as per Time Table

**Topic:**

5. Click on Add
6. Click on file
7. Upload file
8. Click on Assign/Schedule.



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PRPCET/EE/Acad/11.2/2020-21

## Paper Pattern



P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions  
College of Engg. & Management, Amravati  
Department of Electrical Engineering

Semester:

Max Marks: - 30

Sub:

Max. Time: - 1.30 hrs

Unit Test-I (EVEN 2020-21)

Note: Solve Q1. OR Q2 And Q3. OR Q4.

### Subject Teachers:

Subject	Faculty	Sign
EMF (4EP01)	Prof. R.D. Sushir	
EMMI (4EP02)	Dr. S. V. Sonkhaskar	
CS (4EP03)	Prof. P.R. Rane	
NMOT (4EP04)	Prof. G. B. Malvi	
ADC (4EP05)	Prof. V. B. Padole	

Prof. Y.D. Shahakar  
(Unit Test I/C)

Prof. D.A. Shahakar  
(HOD)



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College of Engg. & Management, Amravati  
Department of Electrical Engineering  
**Unit Test-I (Online)**  
Even Semester (Session : 2020-21)  
3<sup>rd</sup> & 4<sup>th</sup> Year Students

Notice

Unit Test-I of even session (Academic session 2020-21) has been scheduled from 15<sup>th</sup> April 2021. Following papers have been received as per Blooms Taxonomy.

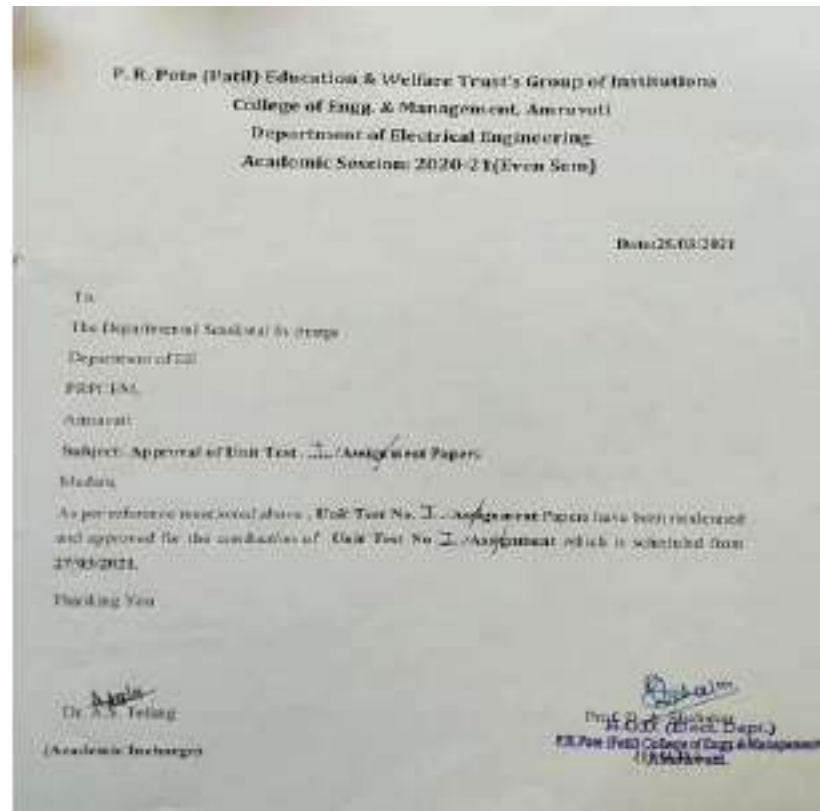
5 <sup>th</sup> Semester		7 <sup>th</sup> Semester	
Subject	Faculty	Subject	Faculty
CS-I (5EP01)	Prof. P. R. Rane	CS-II (7EP01)	Dr. A. S. Telang
MPMC (5EP02)	Prof. U. W. Hore	PSOC (7EP02)	Prof. P. R. Rane
EMC-II (5EP03)	Prof. H. S. Kulat	EP-II (7EP03)	Prof. S.A. Jalit
SS (5EP04)	Prof. P. M. Mankar	SGP (7EP04)	Dr. S. B. Warkad
FE (5EP05)	Prof. S. V. Pawar	CMPSA (7EP05)	Prof. Y. D. Shahakar
CSK (5EP06)	Prof. S. S. Sonkhaskar		

This is submitted to H.O.D. & Departmental Academic In charge for kind approval

  
Prof. Y. D. Shahakar  
(Unit Test I/C)



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PCCET, EAMC, Amravati, Maharashtra

P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions College  
of Engg. & Management, Amravati  
Department of Electrical Engineering  
Time Table (EVEN SEM- 2020-21)  
Unit Test-1  
2<sup>nd</sup> Year ( Pote & Research)

Date	Day	Subject	Time
27/03/2021	Saturday	EMF	11.00AM-12.30PM
		EMMI	3.00PM-4.30PM
30/03/2021	Tuesday	CS	11.00AM-12.30PM
		NMOT	3.00PM-4.30PM
31/03/2021	Wednesday	ADC	11.00AM-12.30PM

Prof. Y. D. Shahakar  
Unit Test Incharge

Prof. D. A. Shahakar  
H.O.D.



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PRT/11/04/2021/0001

**P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions**  
**College of Engg. & Management, Amravati**  
**Department of Electrical Engineering**  
**Even Semester (Session 2020-21)**  
**Unit Test-I (Online)**

**Notice**

All the students of 2<sup>nd</sup> year are hereby informed that, The Unit Test-I (Online) is scheduled from 27/03/2021 on Google Class Room. It is compulsory to attend the same for internal assessment. The schedule is attached herewith. All have to present on the scheduled time and date.

Here are some instructions which you need to follow:

1. Question paper will be uploaded in the classroom itself.
2. Question paper will be of 10 Marks
3. Time to solve and upload the answer sheet will be of one & half hours.
4. There will be a timer set of one & half hours in the classroom. Even if you upload your answer sheet one minute late it will show a late mark and will not be considered.
5. Try to solve your paper within one hour & fifteen minutes & upload your paper before 5-10 min of the finishing time.

PRT/11/04/2021/0001

**How to Solve the paper:**

1. Students need to solve the paper on blank pages.
2. In the answer sheet, all pages should contain the name of the student, Roll no., Class & section.
3. Page number should be written in bold at the corner.
4. Students need not to write the questions. To save time just write the question number and directly write the answers.
5. Question no. should be proper.

**How to upload your paper:**

1. Download the "Top Scanner/ Cam Scanner" application from play store.
2. Click specific images in the top scanner app.
3. Photos should be clicked in proper sequence according to the page number.
4. All the images should be clear. Blur images will not be checked.
5. Name the folder as the student name.
6. Save the paper in PDF format on your google drive.
7. Turn on the link sharing, if link sharing is off then faculty will not be able to check your paper.
8. Copy the link of your paper & paste in google classroom, work assigned & shared in.
9. Upload must take 2-5 minutes depending on your network.
10. Do not try to reupload the paper once uploaded or try to upload more than one attachment, it will be considered as cheating.

**Note:**

1. Any doubts or confusion must be cleared before 27<sup>th</sup> March 2021.
2. We need to follow the strict rules for the betterment of students. Please note that if any issues such as network issue, confusion etc. will not be taken into consideration.

Prof. T. D. Shinde  
(Asst. Prof.)

Prof. T. D. Shinde  
(Asst. Prof.)



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## Internal Question Paper with Scheme & Key

<b>P. R. Pote (Patil) Education &amp; Welfare Trust's Group of Institutions</b> <b>College of Engineering &amp; Management, Amravati</b>		
<b>Department of Electrical Engineering</b>		
B.E. 4th Year (Sem: 7th) -2021	<b>Unit Test-II</b>	<b>Sub:PSOC(7EP02)</b>
<b>Max. Marks:- 30</b>		<b>Max. Time:- 1 hr. 30 min</b>

### Instructions to Candidate:

- 1) Answer ONE question from Section-A & ONE question from Section-B
- 2) Figures to the right indicate the full marks.
- 3) Illustrate your answer whenever necessary with the help of neat sketches.

### SECTION-A

**Q1.A** Explain the excitation system and its basic requirement. Elaborate the components of excitation system with a net diagram (CO3,L2,7M)

**Q1.B** With a elaborative sketch, explain the brushless AVR lop. (CO3,L2,8M)

### OR

**Q2.A** Draw the AVR root locus and discuss the stability compensation technique for the same (CO3,L5,7M)

**Q2.B** Derive and formulate transfer function of AVR loop (CO3,L5,7M)

### SECTION-B

**Q3.A** Explain various components of ALFC loop with its simplified functional diagram (CO4,L2,7M)

**Q3.B** Derive and formulate transfer function of open AVR loop (CO4,L5,8M)

**Q4.A** Explain static response of speed governor (CO4,L2,7M)

**Q4.B** Explain closing of ALFC loop (CO4,L2,8M)





Unit Test II

**Class and Section:** VII Semester

**Subject with Code:**7EP02

**Max. Marks :**30

Q.No.	SCHEME	MARKS	COs
1(a)	Requirements of excitation system	1	3
	Block diagram	2	
	Description of components	4	
1 (b)	Block diagram of AVR Loop	2	3
	Explanation	6	
2 (a)	Sketch of AVR root locus	2	3
	Comments on stability	2	
	Compensation applied to make it stable	3	
2 (b)	Deriving transfer function of individual components	5	3
	Combining the blocks	2	
	Overall transfer function	1	
3 (a)	List of components	1	4
	Block diagram of ALFC	3	
	Description of components	3	
3 (b)	Deriving transfer function of individual components	3	4
	Combining the blocks	3	
	Overall transfer function	2	
4 (a)	Considering three cases for static response	3	4
	Explanation of static response in each case	4	
4 (b)	Explanation of component to be added for closing ALFC	3	4
	Deriving the component transfer function	2	
	Closing the ALFC	3	

**Course Owner:** Prof.P.R.Rane

*Rane*



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**P. R. POTE (PATIL) GROUP OF INSTITUTIONS**  
**COLLEGE OF ENGINEERING & MANAGEMENT, AMRAVATI**

Name of Student : Model Answer sheet

Semester VII Branch/Section \_\_\_\_\_ Roll No \_\_\_\_\_

Subject PSOC Unit Test No II Date \_\_\_\_\_

MARKS OBTAINED			
Q.No.	Marks Obtained	Q.No.	Marks Obtained
1.		7.	
2.		8.	
3.		9.	
4.		10.	
5.		11.	
6.		12.	
Total			
Out of			
Signature _____			

Note : Write on both the sides of the cover page.

Q1A]

Basic requirements of excitation system

Elements of Excitation System

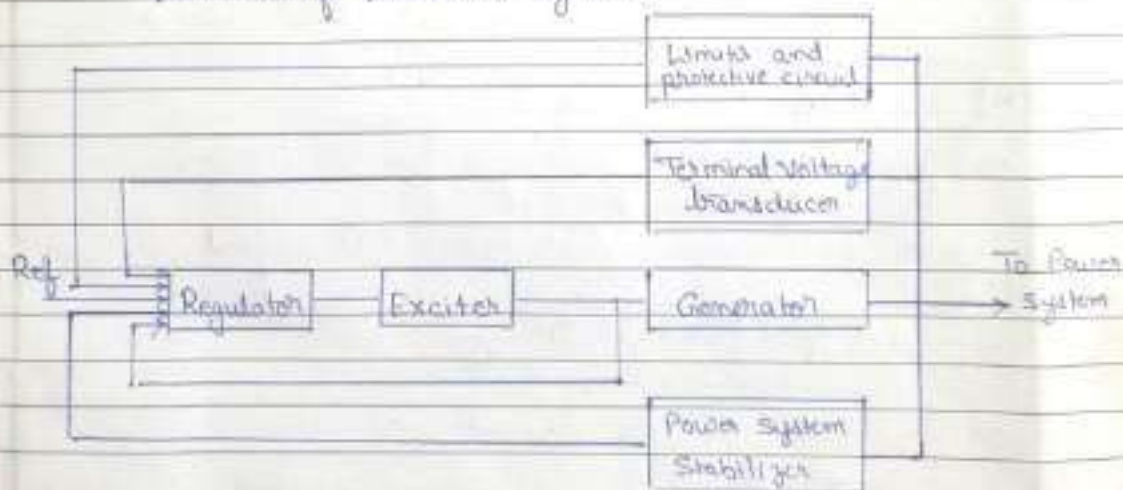


Fig: Functional block dig. of sync generator excitation control



Explanation of components

[5M]

- i) Exciter
- ii) Regulator
- iii) Terminal Voltage Transducer
- iv) Power System Stabilizer
- v) Limiter and protective circuit

Q1A] Brushless excitation for AVR loop.

Explanation and Need.

Basic components

Diagram

Explanation.

Q2A] AVR Root Locus.

$$\text{O.L.T.F of AVR} = \frac{K}{(1+sT_A)(1+sT_e)(1+sT'd_0)}$$

$$\text{Poles of T.F are } s_1 = -\frac{1}{T_A}$$

$$s_2 = -\frac{1}{T_e}$$

$$s_3 = -\frac{1}{T'd_0}$$

$$T'd_0 > T_e > T_A$$

$$s_3 < s_2 < s_1$$



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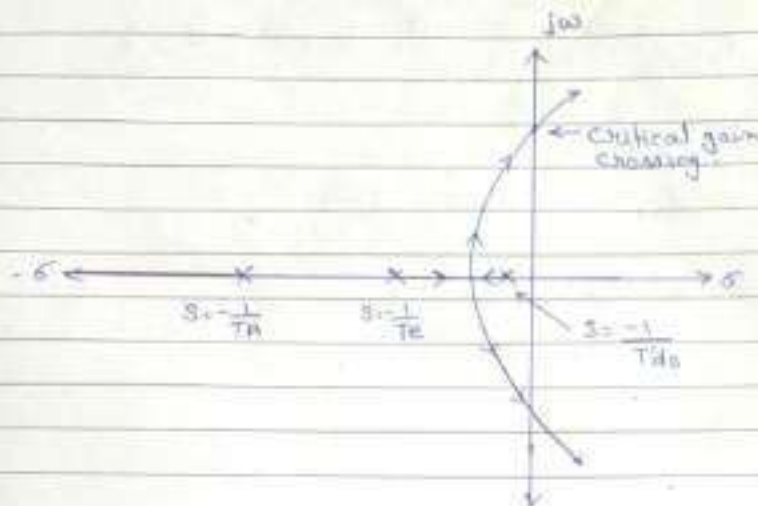


Fig: Root loci of AVR loop

with increase in gain  $K$ , the root locus moves towards unstable region. This makes the AVR loop unstable which is not desired.

Stability compensation :- Addition of series phase lead compensator having T.F

$$G_s = 1 + sT_c$$

$$T.F. \text{ AVR} \rightarrow G(s) = \frac{K(1+sT_c)}{(1+sT_A)(1+sT_E)(1+sT_{d0})}$$

$$T_c = T_e, \quad G(s) = \frac{K}{(1+sT_A)(1+sT_{d0})}$$

System with two poles, Hence the AVR loop becomes absolutely stable.



Q.28] Transfer function of all components of AVR Loop

i) Comparator

$$\Delta V_{ref} = \Delta V(s) = \Delta e(s)$$

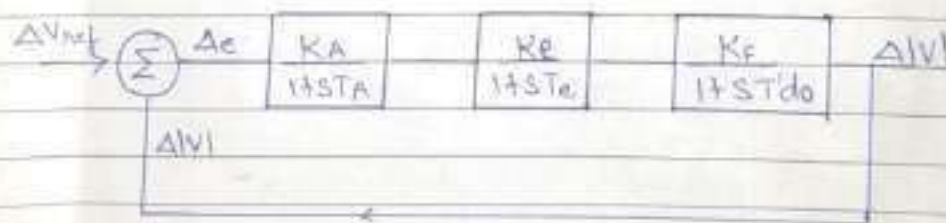
ii) Amplifier

$$\Delta V_R = K_A \cdot \Delta e$$

iii) Exciter  $G(s) = \frac{K_f}{1+sT_c}$

iv) Generator  $G(s) = \frac{K_g}{1+sT_{d0}}$

Combining all T.F, the overall model of AVR is



Overall O.L.T.F

$$G(s)H(s) = \frac{K}{(1+sT_A)(1+sT_c)(1+sT'd_0)}$$

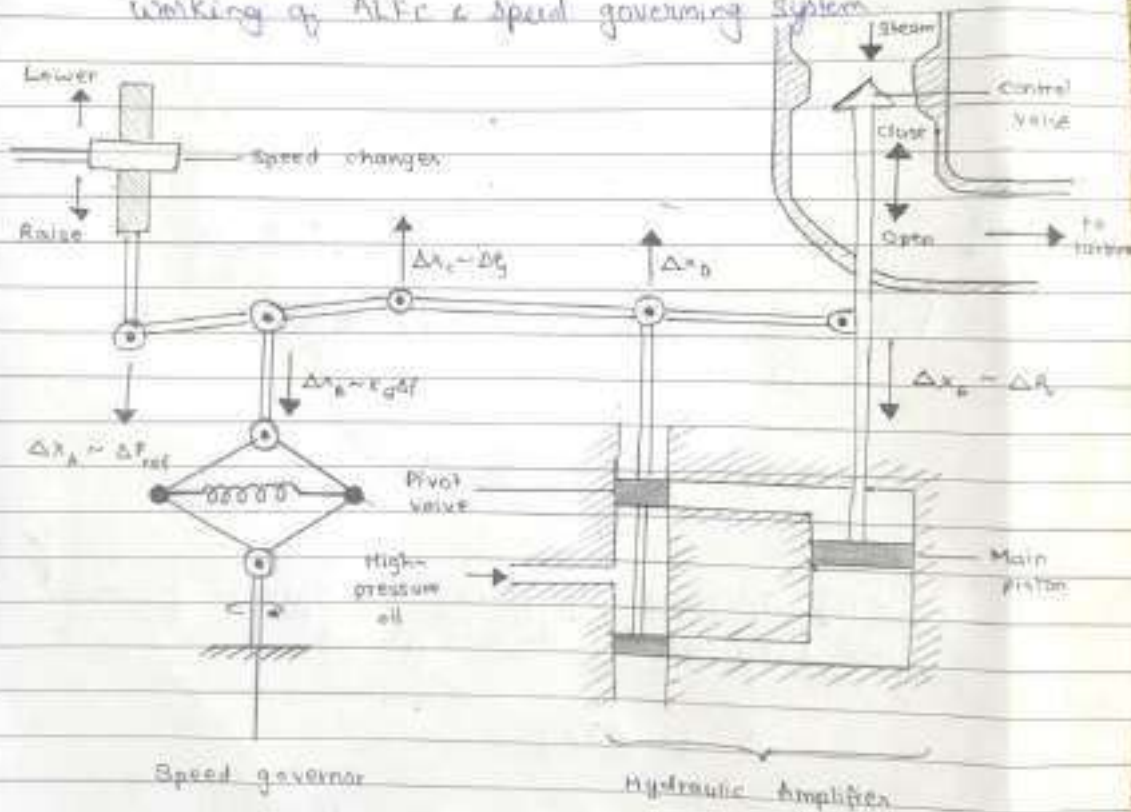


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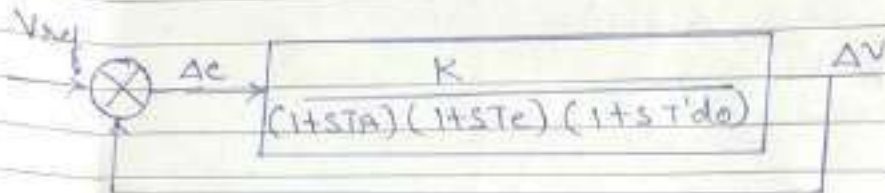
- Q3A] components of ALFC  
Block diagram of ALFC  
Description of components
- i) Hydraulic Amplifier
  - ii) Linkage Mechanism
  - iii) Speed Governor
  - iv) Steam changes

### Working of ALFC & speed governing system





Q3b] Deriving transfer function of each component  
combining the T.F blocks



overall T.F of AVR.

Q4A] Static performance of Speed Governor.

For static performance  $s \rightarrow 0$  therefore

$$G_H(0) = G_T(0) = 1$$

$$\Delta P_{T_0} = \Delta P_{ref} - \frac{1}{R} \Delta f_0$$

case A] Generator synchronized to system of  
very large size, then  $\Delta F = 0$ .

$$\Delta P_{T_0} = \Delta P_{ref}$$

Turbine power is directly changed by changing  
reference setting.



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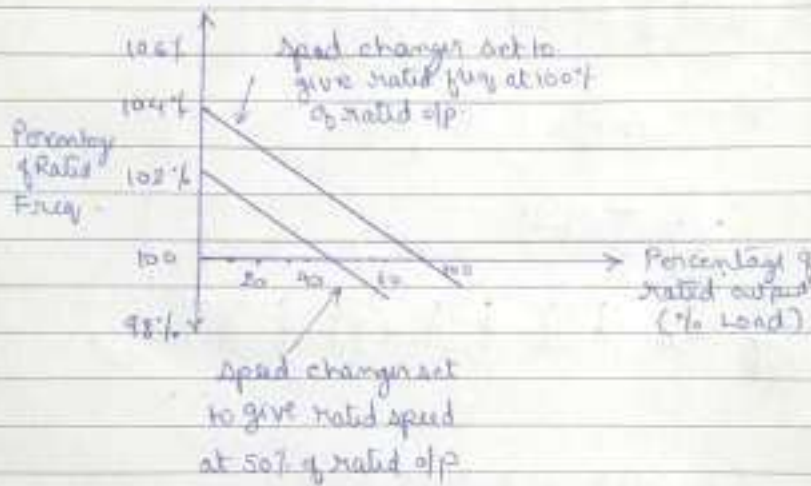


Q4 A. For a Finite Network  $\Delta P_{ref}$

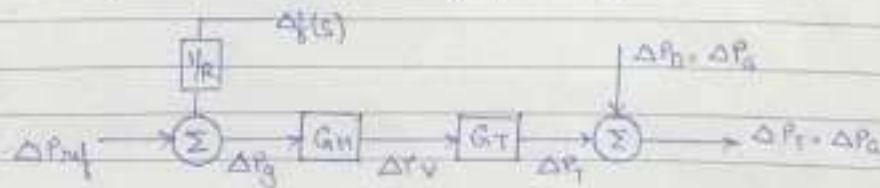
$$\therefore \Delta P_{T_0} = -\frac{1}{R} \Delta f_0$$

change in turbine power is proportional to freq. drop.

Case c. General case



Q4 B] Linear model of primary ALFC loop



Assumptions about lumped area.





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$$\Delta P_T = \Delta P_D + \frac{d}{dT} (W_{kin}) + D \Delta f$$

Solving it to get  $\Delta f(s)$ , we get

$$\Delta f(s) = \frac{1}{D} \left[ \frac{\Delta P_T(s) - \Delta P_D(s)}{1 + \frac{s T_d}{T_D}} \right]$$

$$\Delta f(s) = G_p(s) [\Delta P_T(s) - \Delta P_D(s)]$$

where  $G_p(s) = \frac{K_p}{1 + s T_d}$      $T_p = \frac{s T_d}{T_D}$     &  $K_p = \frac{1}{D}$

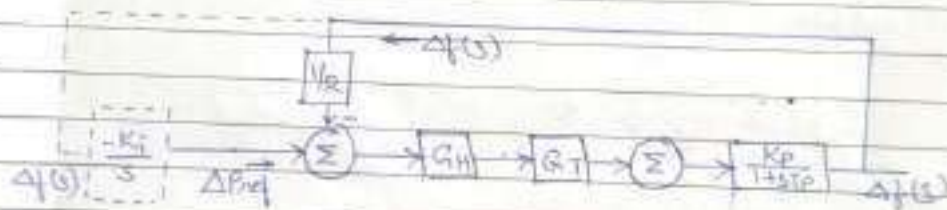


Fig. closing of ALFC loop

Rans



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## Student Grievances

Sr. No.	Grievances raised by students
1	Late answer sheet submission due to network issue
2	Lengthy Question Paper
3	Re-evaluation of unit test answer sheet
4	Under Valuation

  
H.O.D. (Elect. Dept.)  
P.R.Pote (Patil) College of Engg. & Management  
Amravati.



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Date: 18/10/2021

To,  
Exam Grievance Cell,  
P.R.RP.C.E.M,  
Amravati

**Sub: Grievance in Unit Test examination**

Respected Sir,

I undersign, student of Second year, wants to bring to your notice that there was a network issue in residential zone. So my answer sheet for the Unit Test I question paper of the subject Electrical Machine I was submitted late. I request you to kindly consider my answer sheet for valuation.

Kindly do the needful.

Msbagde

Yours Sincerely

MayuriBagade



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## NOTICE

**Date:20/10/2021**

All the exam grievance committee Members are here by informed that there will be meeting on Thursday 21<sup>st</sup> October 2021 at 11:00 am.

Meeting to be presided by: Prof. G.D. Nagose

**Venue:** Examination Cell – EXTC Department

**Agenda for Meeting is:**

1. Grievance of Unit Test
2. Other issues raised on time.

**Prof. G.D. Nagose**  
**Exam Coordinator**



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## Late Answer Sheet Submission due to Network Issue

The screenshot shows a Google Classroom interface. At the top, the URL is <https://classroom.google.com/g/1g1MdyOTA300A2NDwvNDk1MjE1MzQ0Dkku-MjY1NDQ3MjRlV2ktF>. Below the URL bar, there are several browser tabs and extensions. The main content area displays 'Unit Test-I-EMC-I'. A user profile for 'MAYURI BAGDE' is visible. A red box highlights a 'Turned in' notification with a dropdown arrow. Below this, a photo of a handwritten answer sheet is shown. The text on the answer sheet reads: 'P. R. Pote Patil College of Engineering, Amravati', 'Dept - Electrical', 'Name - Mayuri G. Bagde Roll No. 211', 'Sub - EMC II<sup>nd</sup> year III<sup>rd</sup> sem'. A date stamp on the right side of the sheet shows 'Date: 18/10/21'.



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**Department: Electrical Engineering**

**Session: 2021-22**

***Minutes of Meeting***

A Meeting of grievance committee Members with Prof. G.D. Nagose, Exam Coordinator, P.R.P.C.E.M(Amt) was conducted on Thursday 21<sup>st</sup> October 2021 at 11:00 am. Examination Cell Following points were discussed in the meeting & decisions taken unanimously.

1. Warkadsir discussed about the grievance raised by student.
2. Grievance committee Members had discussion over the grievance
3. Concerning with possibility of network issue, all committee Members agreed to the decision that student's papers should be evaluated.

**Prof. G.D. Nagose  
Exam Coordinator**



**Re-Evaluation of Unit Test Paper**

Date	16/09/2022
To,	Exam Grievance cell Electrical Engg PRPCEM Amravati
Subject :-	Regarding Re-Valuation of unit test paper
Sir,	I am kuldip B. Bhakse, student of IV sem of EE Department have given the unit test I paper of NMR subject. It has been observed that My paper is under valuated & so, request you to do the needful to valuate my paper once gain
	Thanking you.
	yours sincerely, kuldip



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- Kathora Road, Amravati, Maharashtra, India
- Ph. No. : +91-721-2970110, Fax No. : +91-721-2530089, Email : prpotepatilcollege@gmail.com
- Web. : www.prpcem.org, www.prpatilcollege.org



## NOTICE

**Date:**18/04/2022

All the exam grievance committee Members are here by informed that there will be meeting on Wednesday 20<sup>th</sup> April 2022 at 11:00 am.

Meeting to be presided by: Prof. G.D. Nagose , Exam Coordinator

**Venue:** Examination Cell – EXTC Department

### **Agenda for Meeting is:**

3. Grievance of Unit Test
4. Other issues raised on time.

Prof. G.D. Nagose  
**Exam Coordinator**





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## *Minutes of Meeting*

A Meeting of grievance committee Members with Prof. G.D. Nagose Exam Coordinator, P.R.P.C.E.M. ,Amt) was conducted on Wednesday 20<sup>th</sup> April 2022 at 11:00 am at Examination Cell – EXTC Department.

Following points were discussed in the meeting & decisions taken unanimously.

4. Warkad sir discussed about the grievance raised by student.
5. Grievance committee Members verified and found that question number 3 was not valuated from Kuldip's NMOT answer sheet.
6. All committee Members agreed to a common decision that he paper must be re-evaluated by the concerned subject teacher.

Prof. G.D. Nagose  
**Exam Coordinator**



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I / II / III Unit Test Examination

Student: Kuldeep Chandrapant Bhatse Class 2<sup>nd</sup> year Section \_\_\_\_\_

Roll No. FEV2103 Subject NMAT (GEM) Date 12/05/22 Supplements used \_\_\_\_\_

Q.No.	1	2	3	4	5	6	Total Marks	Marks Obtained	Signature
Marks Obtained			19	05			30	19	[Signature]

Re-total

Q2A. Guess sudal Method.

Given :-  $20x + y - 2z = 17$  — (1)  
 $3x + 20y - z = -18$  — (2)  
 $2x - 3y + 20z = 25$  — (3)

Step 1.

Finding  $x$  value from eqn (1)

$$20x + y - 2z = 17$$

$$20x = 17 - y + 2z$$

$$x = \frac{17 - y + 2z}{20} \quad \text{--- (4)}$$

Step 2.


Similarly,

finding value of  $y$  from 2<sup>nd</sup> equation and  $z$  from 3<sup>rd</sup> equation



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**Students Grievances form (Examination Related)**

Academic Session : 2021-22 (Even) Unit Test : J

1. Department Name Applied sciences & Humanities

2. Student Name Ku. Komal Vinodrao Waike

3. Course Engg. Chemistry Sem II

4. Roll No. EEU21010 Email ID \_\_\_\_\_

5. Description of problem Q. 2] b) under valuation  
got less marks than expected

Date - 06/07/22 Komal  
Signature




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• Web : www.prpcem.org, www.prpatecollege.org



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**NOTICE**

Date: 07/07/2022


All the exam grievance committee Members are here by informed that there will be meeting on Thursday 7<sup>th</sup> July 2022 at 4:30 pm.

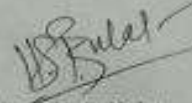
Meeting to be presided by: Prof. H. S. Kulat

Venue: – Department of Applied Sciences & Humanities.

Agenda for Meeting is:

1. Grievance of Unit Test-I
2. Other issues raised on time

  
Prof. S. S. Khan  
Meeting coordinator

  
Prof. H. S. Kulat  
Chairman (Grievance Committee)

For Circulation to:

1. Dr. S. A. Khapre
2. Prof. A. W. Mahore



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Department of Applied Sciences & Humanities  
Session: 2021-22

*Minutes of Meeting*

Meeting of grievance committee Members with Prof. H. S. Kulat Chairman (Grievance committee, Applied Sciences & Humanities, P.R.P.C.E.M Amr) was conducted on Thursday 7th July 2022 at 4:30 pm. Following points were discussed in the meeting & decisions were taken unanimously.

1. Discussed about the grievance raised by student.
2. Grievance committee Members had discussion over the grievance.
3. All committee Members agreed to the decision that the papers must be re-evaluated by the concerned subject teacher.

  
Prof. S. S. Khan  
Meeting coordinator

  
Prof. H. S. Kulat  
Chairman (Grievance Committee)

For Circulation to:

1. Dr. S. A. Khapre
2. Prof. A. W. Mahore



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**PRPCEM/ASH/UT EXAM/415**

Grievance related to Assessment

Grievances Report submitted to EXAM CELL by department

Department – Applied Sciences and Humanities

Academic Session – 2021-22 (ODD)

Unit Test – II

Subject– M-I

S. No.	Nature of Grievances	No of grievances received	No of grievances resolved	remarks
1	Under Valuation	01	01	Marks changed from 26 to 30
2	Retotaling	-	-	-
3	Network issue (Online)	-	-	-
4	Lengthy Question Paper	-	-	-
5	Behind Syllabus	-	-	-
6	Other	-	-	-

Remark – Please write about action taken, if any change than same to inform to Exam Cell

Date- 02/04/22

*[Handwritten Signature]*

HOD

Chairman Grievance committee

PRPCEM Amravati  
EXAM CELL  
Inward No... 03.....  
Date 03/04/22.....  
Sign... S. Ray.....



**P. R. Pote Patil Edu. & Welf. Trust's, Group of Institutions,  
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PRPCEM/ASH/UT EXAM/422

Grievance related to Assessment

Grievances Report submitted to EXAM CELL by department

Department – Applied Sciences and Humanities

Academic Session – 2021-22 (EVEN)

Unit Test – I

Subject – Engg. Chem.

S. No.	Nature of Grievances	No of grievances received	No of grievances resolved	Remarks
1	Under Valuation	01	01	Marks changed from 19 to 22
2	Retotaling	-	-	-
3	Network issue (Online)	-	-	-
4	Lengthy Question Paper	-	-	-
5	Behind Syllabus	-	-	-
6	Other	-	-	-

Remark – Please write about action taken, if any change than same to inform to Exam Cell

Date- 10/07/22

Chairman Grievance committee

  
HOD

PRPCEM Amravati  
EXAM CELL  
Inward No. 004.....  
Date 11/07/2022  
Sign.....



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PRPCEM / ASH / UT EXAM / 315

**Grievance related to Assessment**

Grievances Report submitted to EXAM CELL by department

Department – Applied Sciences and Humanities

Academic Session – 2020-21 (ODD)

Unit Test – II

Subject – E G

S. No.	Nature of Grievances	No of grievances received	No of grievances resolved	Remarks
1	Under Valuation			
2	Retotaling			
3	Network issue (Online)	01	01	Accepted & evaluated answer sheet. Got 20 marks
4	Lengthy Question Paper			
5	Behind Syllabus			
6	Other			

Remark – Please write about action taken, if any change than same to inform to Exam Cell

Date- 29/04/21

Chairman Grievance committee

HOD

PRPCEM Amravati  
EXAM CELL  
Inward No... 093  
Date 30/04/21  
Sign... [Signature]





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PRPCEM / ASH / UT EXAM / 329

Grievance related to Assessment

Grievances Report submitted to EXAM CELL by department

Department – Applied Sciences and Humanities

Academic Session – 2020-21 (EVEN)

Unit Test – II

Subject – EM

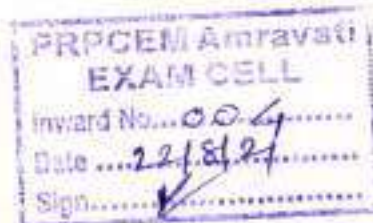
S. No.	Nature of Grievances	No of grievances received	No of grievances resolved	Remarks
1	Under Valuation	-	-	-
2	Retotaling	-	-	-
3	Network issue (Online)	01	01	Accepted and evaluated answer sheet. Got 20 Marks.
4	Lengthy Question Paper	-	-	-
5	Behind Syllabus	-	-	-
6	Other	-	-	-

Remark – Please write about action taken, if any change than same to inform to Exam Cell

Date- 21/08/21

Chairman Grievance committee

HOD





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PRPCEM / ASH / UT EXAM / 222

### Grievance related to Assessment

Grievances Report submitted to EXAM CELL by department

Department – Applied Sciences and Humanities

Academic Session – 2019-20 (EVEN)

Unit Test – I

Subject – Engg. Chem

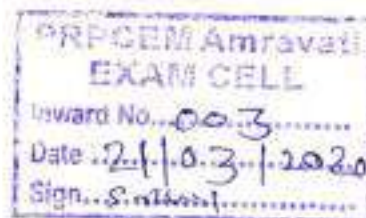
S. No.	Nature of Grievances	No of grievances received	No of grievances resolved	Remarks
1	Under Valuation	01	01	Marks changed from 15 to 18
2	Retotaling			
3	Network issue (Online)			
4	Lengthy Question Paper			
5	Behind Syllabus			
6	Other			

Remark – Please write about action taken, if any change than same to inform to Exam Cell

Date- 20/03/2020

Chairman Grievance committee

HOD





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PRPCEM/ EXAMCELL/no. 10

Date- 01/05/22

Reference No.: - PRPCEM/UNIT TEST EXAM/2021-22, Dated 02/04/202

### NOTICE

All the departmental Unit Test coordinator hereby notified that the 2<sup>nd</sup> unit test will be held from 19 May 22 through 22 May 2022.

Note –

1. Mode of Conduction – Offline
2. Please followed all deadline regarding paper submission, result display, Grievances report and final result display

Enclosure - Paper Guidelines

  
Exam Cell  
PRPCEM Amravati

12/04/22, 1:25 PM

Gmail - Sub: Unit test conduction



Gajanan Nagoshe <gnagoshe@gmail.com>

**Sub: Unit test conduction**

1 message

Gajanan Nagoshe <gnagoshe@gmail.com>

Tue, Dec 2020 at 1:25 PM To: asshakn@prpctepablengg.ac.in, denpak.c.dhanwan@gmail.com, shahsakarunai@gmail.com, prajyotgandhak12@gmail.com, rajchanarnehule@gmail.com, prmbilvika28@gmail.com, simesadai54@rediffmail.com, sheetalnarkar13@gmail.com

**Respected exam cell team members (Acc. Session winter 21-22)**

**As per the guidelines given by Exam Committee PRPCEM,**

- 13. Unit test 1 should be conducted in online mode due to pandemic situation during 11/04/22 to 13/04/22**
- 14. Dept coordinator will prepare time table as per schedule mentioned and display it on google classroom**
- 15. Concern teacher will publish paper in google class room on schedule prescribed in timetable**
- 16. Paper pattern will be same (descriptive)**
- 17. Students will write answer on paper and submit pdf of answer sheet in google class room or concern teacher email id.**
- 18. There is no change in valuation scheme**

**Above are the guidelines to conduct unit test in online mode if you have any query then please contact me**

**Thank you**

Regards

Prof. G. D. Nagoshe  
Asst. Professor, Dept. Electronics &  
Telecommunication gnagoshe@gmail.com,  
gajanan.nagoshe@prpcem.org 75588544884  
(PRPCEM, Amravati)

09/12/22, 3:35 PM

Gmail - Sub: Unit test conduction



Gajanan Nagoshe <gnagoshe@gmail.com>

**Sub: Unit test conduction**

1 message

Gajanan Nagoshe <gnagoshe@gmail.com>

Thu Dec 2020 at 1:26 PM To: asshakr@prpcem.org, ac m. deepak .dhenwan@gmail.com, shahakarjunel@gmail.com, prajyotgardhak12@gmail.com, rajhanamahule@gmail.com, primbhorkar28@gmail.com, srisada\*84@rediffmail.com, srestalnerkar07@gmail.com

**Respected exam cell team members (Acc. Session winter 21-22)**

**As per the guidelines given by Exam Committee PRPCEM,**

7. **Unit test 2 should be conducted in online mode due to pandemic situation during 13/12/21 to 15/12/21**
8. **Dept coordinator will prepare time table as per schedule mentioned and display it on google classroom**
9. **Concern teacher will publish paper in google class room on schedule prescribed in timetable**
10. **Paper pattern will be same (descriptive)**
11. **Students will write answer on paper and submit pdf of answer sheet in google class room or concern teacher email id.**
12. **There is no change in valuation scheme**

**Above are the guidelines to conduct unit test in online mode If you have any query than please contact me**

**Thank you**

Regards  
Prof G D Nagoshe  
Asst. Professor, Dept Electronics &  
Telecommunication gnagoshe@gmail.com,  
gajanan.nagoshe@prpcem.org 75580544864  
; PRPCEM Anravaki

P. R. Pote (Patil) Edu. &Welf. Trusts Group of Institutions College of Engineering & Management, Amravati.  
EXAM CELL

---

04: 28/05/2022

**NOTICE**

All Exam Cell Committee member are here by informed that Exam Cell meeting is organized on 29/05/2022 at 04:00 pm. All are requested to attend the same.

Agenda of Meeting

1. POST-Unit Test meeting
2. Grievances Report.
3. Result Analysis Report
4. Issues raised on time.

1. P. R. Pote (Patil) Edu. &Welf. Trusts Group of Institutions  
2. College of Engineering & Management, Amravati.  
3. EXAM CELL  
4. 28/05/2022  
5. P. R. Pote (Patil) Edu. &Welf. Trusts Group of Institutions  
6. College of Engineering & Management, Amravati.  
7. EXAM CELL  
8. 28/05/2022  
9. P. R. Pote (Patil) Edu. &Welf. Trusts Group of Institutions  
10. College of Engineering & Management, Amravati.  
11. EXAM CELL  
12. 28/05/2022  
13. P. R. Pote (Patil) Edu. &Welf. Trusts Group of Institutions  
14. College of Engineering & Management, Amravati.  
15. EXAM CELL  
16. 28/05/2022

P. R. Pote (Patil) Edu. &Welf. Trusts Group of Institutions College of Engineering &  
Management, Amravati.  
EXAM CELL

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**Minutes of Meeting**

<b>Date of Meeting:</b>	07/05/22	<b>Time:</b>	04:00 pm – 04:30 pm
<b>Venue:</b>	Exam Cell	<b>No. :</b>	PRPCOEM/EXAM CELL/
<b>Meeting Facilitator:</b>	Mr. G. D. Nagoshe	<b>Minutes Prepared By:</b>	Rahul Kantole
<b>Meeting attended by:</b>	Prof. Y. D. Shahakar, Prof Abdul Sayeed AW Shaikh, Prof P. S. Gandhak, Prof. D. C. Dhanwani Prof. Simi Khan, Prof S.S. Nerkar, Prof R.A. Sharma, Prof P. W. Nimbhorkar,		
<b>Agenda and Notes, Decisions, Issues:</b>			
⬇ Meeting started with discussion on Unit Test 2 commencement Date and Time Table			
⬇ Exam Cell instruct department to submit Requirement.			
⬇ Discussion on Moderation committee, Grievance committee and Malpractices during examination			
⬇ Exam Cell instruct to submit invigilator details			
⬇ Exam Cell directed to strictly followed the time constraint paper submission, moderation of papaper and moderation report submission			



Mr. Rahul Kantole

Meeting coordinator





Mr. G. D. Nagoshe  
In-Charge

P. R. Pote (Patil) Edu. &Welf. Trusts Group of Institutions College of Engineering &  
Management, Amravati.  
EXAM CELL.

**Minutes of Meeting**

<b>Date of Meeting:</b>	29/05/22	<b>Time:</b>	04:00 pm – 04:30 pm
<b>Venue:</b>	Exam Cell	<b>No. :</b>	PRPCOEM/EXAM CELL/
<b>Meeting Facilitator:</b>	Mr. G. D. Nagoshe	<b>Minutes Prepared By:</b>	Rahul Kantole
<b>Meeting attended by:</b>	Prof. Y. D. Shahakar, Prof Abdul Sayeed AW Shaikh, Prof P. S. Gandhak, Prof. D. C. Dhanwani Prof. Simi Khan, Prof S.S. Nerkar, Prof R.A. Sharma, Prof P. W. Nimbhorkar.		
<b>Agenda and Notes, Decisions, Issues:</b>			
➤ Meeting started with discussion on problem in Unit Test conduction			
➤ Grievances compliance and action report has been discussed.			
➤ Absentee report of students for Unit Test is handover to department.			
➤ Exam Cell committee member raised issue of absentee percentage of students for unit test and some strict action expecting from HOD .			

  
Mr. Rahul Kantole  
Meeting coordinator

  
Mr. G. D. Nagoshe  
In-Charge





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PRPCEM / ASH / UT EXAM / 008

### Grievance related to Assessment

Grievances Report submitted to EXAM CELL by department

Department – Applied Sciences and Humanities

Academic Session – 2017-18 (ODD)

Unit Test – I

Subject – Engg Phy.

S. No.	Nature of Grievances	No of grievances received	No of grievances resolved	Remarks
1	Under Valuation	1	1	Marks change from 19 to 22.
2	Retotaling	-	-	-
3	Network issue (Online)	-	-	-
4	Lengthy Question Paper	-	-	-
5	Behind Syllabus	-	-	-
6	Other	-	-	-

Remark – Please write about action taken, if any change than same to inform to Exam Cell

Date- 10/10/2017

Chairman Grievance committee

PRPCEM Amravati EXAM CELL Inward No... 008 Date .. 10/10/2017 Sign... S. S. Patil
---



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PRPCEM/ASH/UT EXAM/022

### Grievance related to Assessment

Grievances Report submitted to EXAM CELL by department

Department – Applied Sciences and Humanities

Academic Session – 2017-18 (EVEN)

Unit Test – I

Subject– **M - II**

S. No.	Nature of Grievances	No of grievances received	No of grievances resolved	Remarks
1	Under Valuation	1	1	marks change from 22 to 26
2	Retotaling	-	-	-
3	Network issue (Online)	-	-	-
4	Lengthy Question Paper	-	-	-
5	Behind Syllabus	-	-	-
6	Other	-	-	-

Remark – Please write about action taken, if any change than same to inform to Exam Cell

Date- 02/04/2018

Chairman Grievance committee

*[Handwritten Signature]*

PRPCEM Amravati  
EXAM CELL  
Inward No. 004  
Date 3/04/2018  
Sign. g. patil

08/04/22 8:25 PM

Gmail - Sub: Unit test conduction



Gajanan Nagoshe <gnagoshe@gmail.com>

### Sub: Unit test conduction

1 message

Gajanan Nagoshe <gnagoshe@gmail.com>

Tue, Dec 2020 at 1:25 PM To: aashakh@protecalilssgg.ac.in, deepak.r.dhanwani@gmail.com, shahakairmural@gmail.com, prajyotganohak12@gmail.com, rajlaxmanibute@gmail.com, printhorkar28@gmail.com, smisedaf84@rediffmail.com, sheetalnerkar03@gmail.com

**Respected exam cell team members (Acc. Session winter 21-22)**

**As per the guidelines given by Exam Committee PRPCEM,**

- 13. Unit test 1 should be conducted in online mode due to pandemic situation during 11/04/22 to 13/04/22**
- 14. Dept coordinator will prepare time table as per schedule mentioned and display it on google classroom**
- 15. Concern teacher will publish paper in google class room on schedule prescribed in timetable**
- 16. Paper pattern will be same (descriptive)**
- 17. Students will write answer on paper and submit pdf of answer sheet in google class room or concern teacher email id.**
- 18. There is no change in valuation scheme**

**Above are the guidelines to conduct unit test in online mode if you have any query than please contact me**

**Thank you**

Regards,

Prof G D Nagoshe

Asst Professor, Dept Electronics &  
Telecommunication gnagoshe@gmail.com  
gajanan.nagoshe@prpcem.org 75586544634  
(PRPCEM, Amravati)

P. R. Pote (Patil) Edu. & Welf. Trusts Group of Institutions College of Engineering & Management, Amravati.  
EXAM CELL

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Dr: 05/05/2022

**NOTICE**

All Exam Cell Committee members are hereby informed that Exam Cell meeting is organized on 07/05/2022 at 04:00 pm. All are requested to attend the same.

Agenda of Meeting –

1. Pre-Unit Test meeting
2. Unit Test 2 Conduction
3. Issues raised on time.

Exam Cell  
Amravati

1. Mr. P. R. Pote  
2. Mr. P. R. Pote  
3. Mr. P. R. Pote  
4. Mr. P. R. Pote  
5. Mr. P. R. Pote  
6. Mr. P. R. Pote  
7. Mr. P. R. Pote  
8. Mr. P. R. Pote  
9. Mr. P. R. Pote  
10. Mr. P. R. Pote



- Kathora Road, Amravati, Maharashtra, India
- Ph. No. : +91-721-2970110, Fax No. : +91-721-2530089, Email : prpotepatilcollege@gmail.com
- Web. : www.prpceem.org, www.prpatilcollege.org

PRPCEM/ASH/UT EXAM/108

### Grievance related to Assessment

Grievances Report submitted to EXAM CELL by department

Department – Applied Sciences and Humanities

Academic Session – 2018-19 (ODD)

Unit Test – I

Subject – CP

S. No.	Nature of Grievances	No of grievances received	No of grievances resolved	remarks
1	Under Valuation			
2	Retotaling	01	01	marks changed from 20 to 23
3	Network issue (Online)			---
4	Lengthy Question Paper			
5	Behind Syllabus			
6	Other			

Remark – Please write about action taken, if any change than same to inform to Exam Cell

Date- 05/10/2018

Chairman Grievance committee





**P. R. Pote Patil Edu. & Welf. Trust's, Group of Institutions,  
College of Engineering & Management, Amravati**

(Recognized by AICTE, New Delhi, Approved by Govt. of Maharashtra & Affiliated to SGBAU, Amravati)

Institute Code : 1107



- Kathora Road, Amravati, Maharashtra, India
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- Web. : www.prpccem.org, www.prpatilcollege.org

PRPCEM/ASH/UT EXAM/129

Grievance related to Assessment

Grievances Report submitted to EXAM CELL by department

Department – Applied Sciences and Humanities

Academic Session – 2018-19 (EVEN)

Unit Test – II

Subject– M-I

S. No.	Nature of Grievances	No of grievances received	No of grievances resolved	Remarks
1	Under Valuation	01	01	Marks changed from 15 to 17
2	Retotaling	-	-	-
3	Network issue (Online)	-	-	-
4	Lengthy Question Paper	-	-	-
5	Behind Syllabus	-	-	-
6	Other	-	-	-

Remark – Please write about action taken, if any change than same to inform to Exam Cell

Date- 07/03/2019

Chairman Grievance committee

