1.1 Curricular Planning and Implementation _CIE (20)

DEPARTMENT OF MECHANICAL ENGINEERING

Sr. No.	Key Aspects	Assessment Indicators	Details	Evidences
1.1.2	Curricular Planning and Implementation Continuous Internal Evaluation (CIE)	The Institute ensures effective curriculum delivery through a well planned and documented process	Academic Calendar	SPPU, Institute and department Calendar
			Course file	Assessment Plan,
			Module Contents : Activities	Quiz, Game Pedagogy activities, other activity
			Mid Term	Time table, Schedule, analysis
			End Term	Time table, Schedule, analysis
			Continuous assessment in the laboratory	Performance parameter rubrics, Sample grading sheet
			Quality Of Student Projects	Project Identification, Allotment, Monitoring & Evaluation, Continuous evaluation process for the project, Sample Evaluation sheet, Sample task sheet, sample of assessment based on the task sheet (Individual & Team leader) & Sample of assessment based on Rubrics (During online teaching-learning)
			Module Contents : Activities	Quiz, Game Pedagogy activities, other activity
			Continuous assessment sheet link for AY 2021-22	Sample continuous assessment sheet

1.1.2. The Institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE):

- Effective implementation is possible only by meticulous planning; hence department plans and executes academic activities with Continuous Internal Evaluation (CIE) adhering to the academic calendar.
- Department academic calendar prepared is based on the SPPU calendar and institute calendar.
- It mainly includes the various activities planned in the coming semester viz. teaching plan, guest-lectures, internal / external examination schedules, technical events, industry visit schedules,
- Continuous assessment sheet linetc.

- Continuous Internal Evaluation which includes MOODLE activities like Quiz, Game Pedagogy activities, other activity, internal / external examination, Continuous assessment in the laboratory & Quality Of Student Projects. k for AY 2021-22.

Adherence to academic calendar during pandemic.

- University could not maintain the regular academic schedule due to pandemic waves.
- University has to change the academic schedule in the run time, based on Covid situation.
- All the affiliated colleges followed the same as per the circulars of the University.
- Each faculty member prepares a teaching plan based on the university and college academic calendar.

1.1.2.1 Quality of internal semester Question papers, Assignments and Evaluation.

A. Process for internal semester Question Paper setting and evaluation and effective process implementation:

- To ensure learning happens with expected competency, a continuous evaluation is the most important element in the education system.
- The various activities of internal assessment are depicted in Fig.1.1.2(a) and in Table 1.1.2(a). The entire evaluation process is effectively implemented and monitored by PAC as per the defined schedule and continuous interaction with the stakeholders, so the efficacy of the process is ensured.
- The major activity of internal assessment is midterm and end term examinations, where all COs are addressed. The quality of question paper is ensured with the help of Blooms level. The sample question is as shown in Fig. 1.1.2(b).

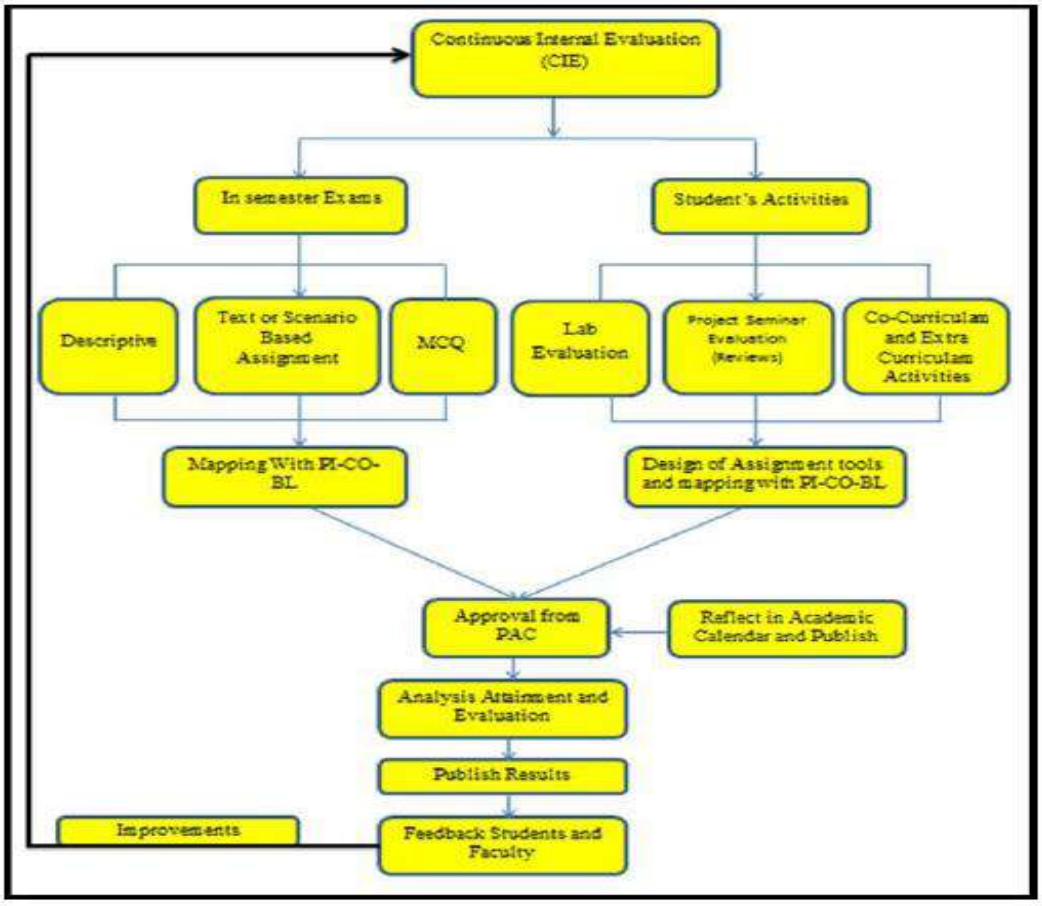
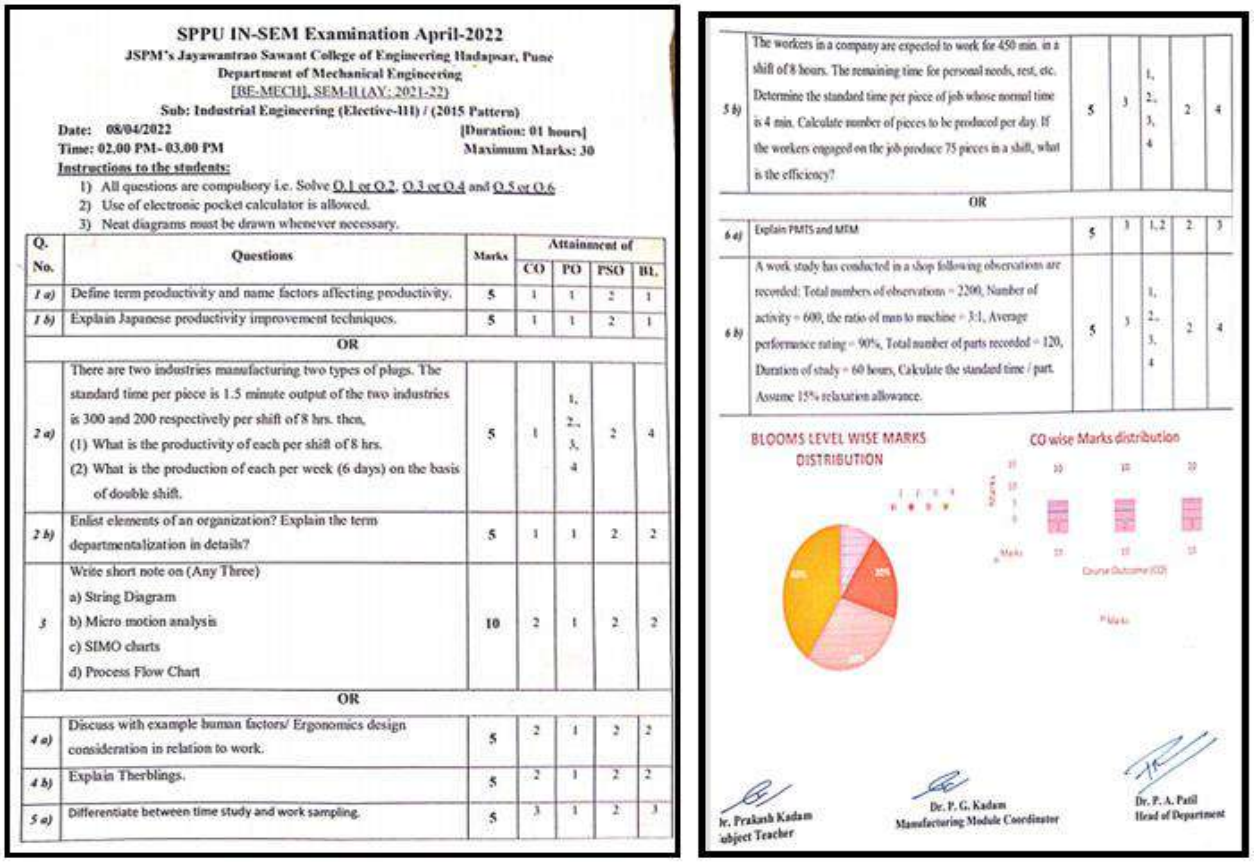


Fig.1.1.2(a): The process of internal assessment and Continuous Evaluation

Tab 1.1.2 (a): Evaluation Tool Frequency CO coverage

Evaluation Tool	Frequency	CO coverage
Internal Test	One at Mid-sem and second at End-sem	The mid-term test covers 50% COs and End-term covers remaining COs. Each internal test carries 50 Marks and weightage to COs are distributed according to the syllabus
Assignments/Student activity (course level)	One assignment for each unit	Relevant COs are covered in assignments and each assignment carries 20 Marks
MCQ	Four tests in a semester.	One MCQ is conducted for the first four units each covering relevant COs. Each MCQ test carries 25 Marks
Lab assessments	During the end of each experiment	Relevant COs covered in course-wise marks vary based on credits
Project & Seminar	Thrice in a semester	Relevant POs covered 200 Marks for the project and 25 marks for the seminar
Student activities (Program level)	Once in a semester	Relevant POs covered in course-wise activities

· A sample of CO coverage in an internal exam is shown in Fig.1.1.2(b).



SPPU IN-SEM Examination April-2022

JSPM's Jayawantrao Sawant College of Engineering Hadapsar, Pune

Department of Mechanical Engineering

[BE-MECH], SEM-II (AY: 2021-22)

Sub: Industrial Engineering (Elective-III) / (2015 Pattern)

Date: 08/04/2022 **[Duration: 01 hours]**

Time: 02.00 PM- 03.00 PM **Maximum Marks: 30**

Instructions to the students:

1) All questions are compulsory i.e. Solve Q.1 or Q.2, Q.3 or Q.4 and Q.5 or Q.6
2) Use of electronic pocket calculator is allowed.
3) Neat diagrams must be drawn whenever necessary.

Q. No.	Questions	Marks	Attainment of			
			CO	PO	PSO	BL
1 a)	Define term productivity and name factors affecting productivity.	5	1	1	2	1
1 b)	Explain Japanese productivity improvement techniques.	5	1	1	2	1
	OR					
2 a)	There are two industries manufacturing two types of plugs. The standard time per piece is 1.5 minute output of the two industries is 300 and 200 respectively per shift of 8 hrs. then, (1) What is the productivity of each per shift of 8 hrs. (2) What is the production of each per week (6 days) on the basis of double shift.	5	1	1, 2, 3, 4	2	4
2 b)	Enlist elements of an organization? Explain the term departmentalization in details?	5	1	1	2	2
3	Write short note on (Any Three) a) String Diagram b) Micro motion analysis c) SIMO charts d) Process Flow Chart	10	2	1	2	2
	OR					
4 a)	Discuss with example human factors/ Ergonomics design consideration in relation to work.	5	2	1	2	2
4 b)	Explain Therblings.	5	2	1	2	2
5 a)	Differentiate between time study and work sampling.	5	3	1	2	3
5 b)	The workers in a company are expected to work for 450 min. in a shift of 8 hours. The remaining time for personal needs, rest, etc. Determine the standard time per piece of job whose normal time is 4 min. Calculate number of pieces to be produced per day. If the workers engaged on the job produce 75 pieces in a shift, what is the efficiency?	5	3	1, 2, 3, 4	2	4
	OR					
6 a)	Explain PMTS and MTM	5	3	1, 2	2	3
6 b)	A work study has conducted in a shop following observations are recorded: Total numbers of observations = 2200, Number of activity = 600, the ratio of man to machine = 3:1, Average performance rating = 90%, Total number of parts recorded = 120, Duration of study = 60 hours, Calculate the standard time / part. Assume 15% relaxation allowance.	5	3	1, 2, 3, 4	2	4

Dr. P. A. Patil
Head of Department

Dr. P. G. Kadam
Manufacturing Module Coordinator

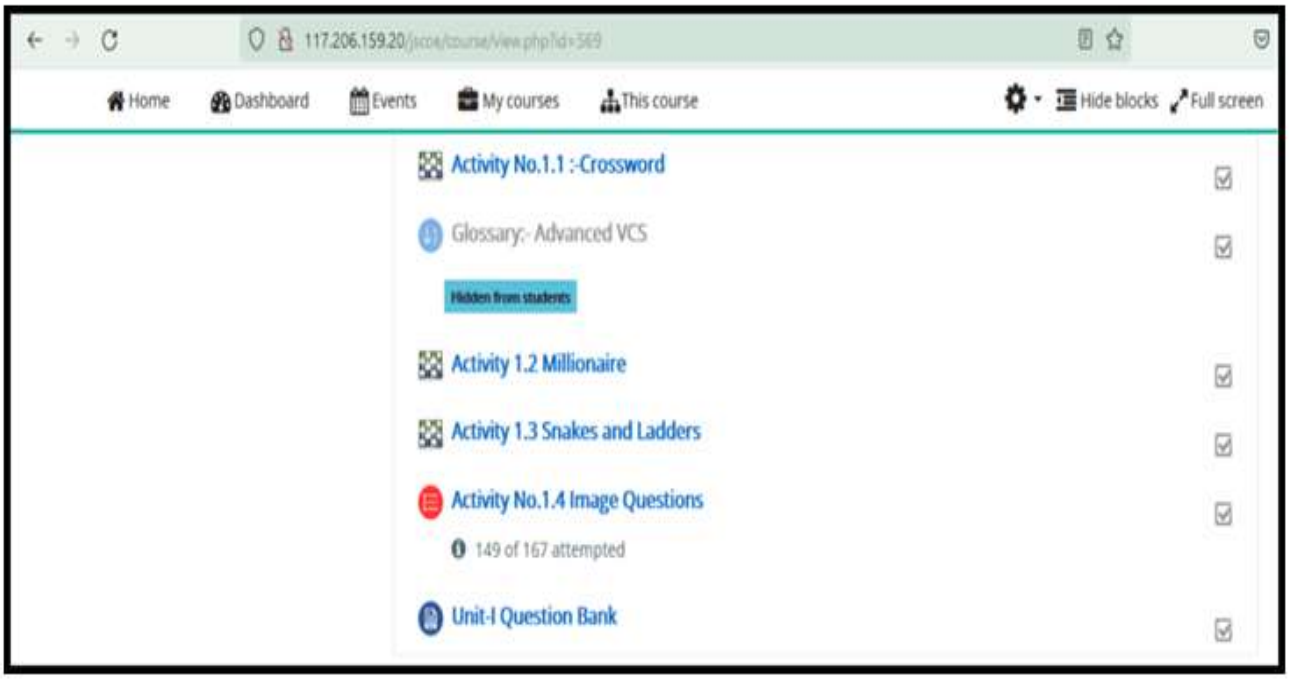
Subject Teacher

Fig. 1.1.2(b): Sample Internal test question paper

B The process to ensure questions from outcomes/learning levels

Quality of internal assessment test is ensured through the following

- Distribution of max marks to questions as per contribution in syllabi
- Faculty members frame the question in context with OBE/Learning perspective, Questions are mapped to COs and BL New/modified COs formulated to increase the mapping level and questions are framed accordingly.
- Module Committee and PAC ensure that the internal assessment questions are framed based on various Cognitive levels and are mapped to the COs with appropriate weightage. Questions also included real-time problems to increase the BL.
- A sample question paper is shown below in Fig.1.1.2(b).
- During Pandemic, all the internal tests were conducted as per offline mode, only submission of answer sheet done through online mode (LMS-MOODLE platform.)
- Multiple choice questions (MCQ) tests conducted online mode. Mainly remembering and understanding level question are asked in the MCQ examination.
- To attain the higher blooms level student activities, viz. drag and drop , match the pairs , crossword and interactive videos such activities are performed online.The screen shot of MOODLE page is as shown in Fig. 1.1.2(c).



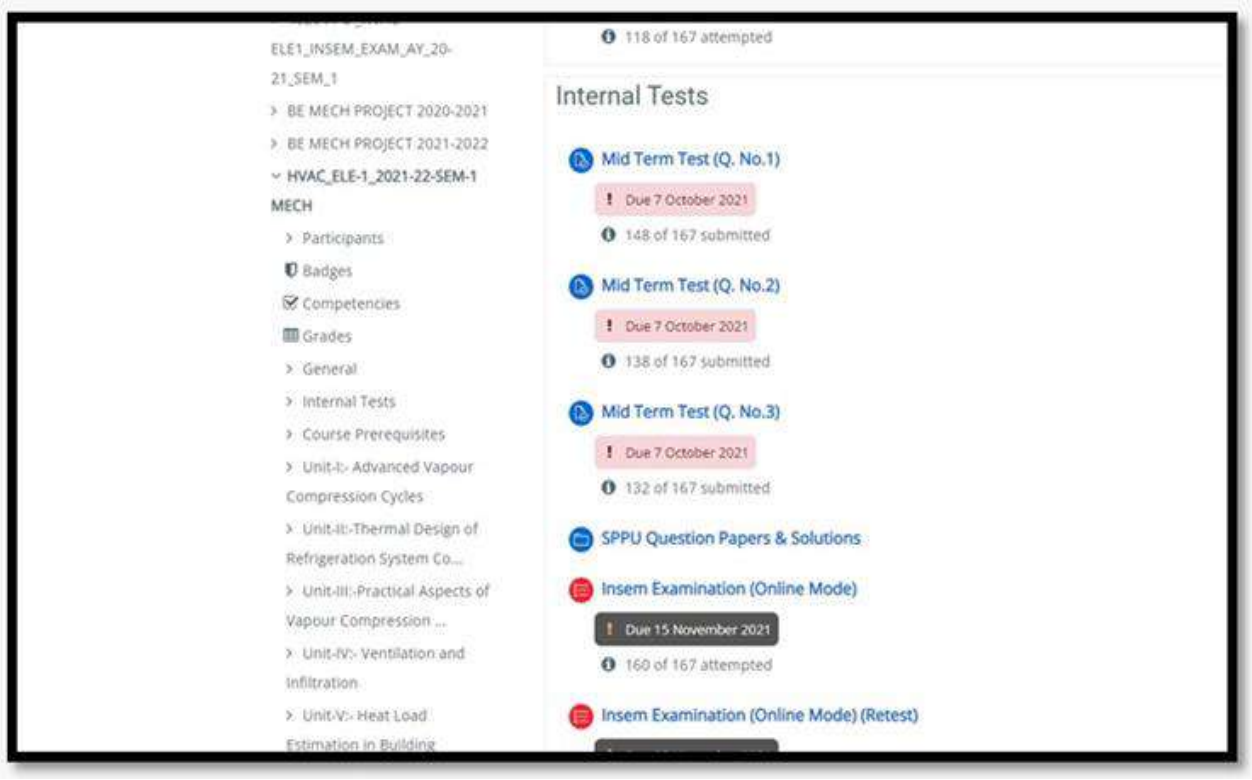


Fig. 1.1.2(c): Moodle activities for internal assessment and Continuous Evaluation

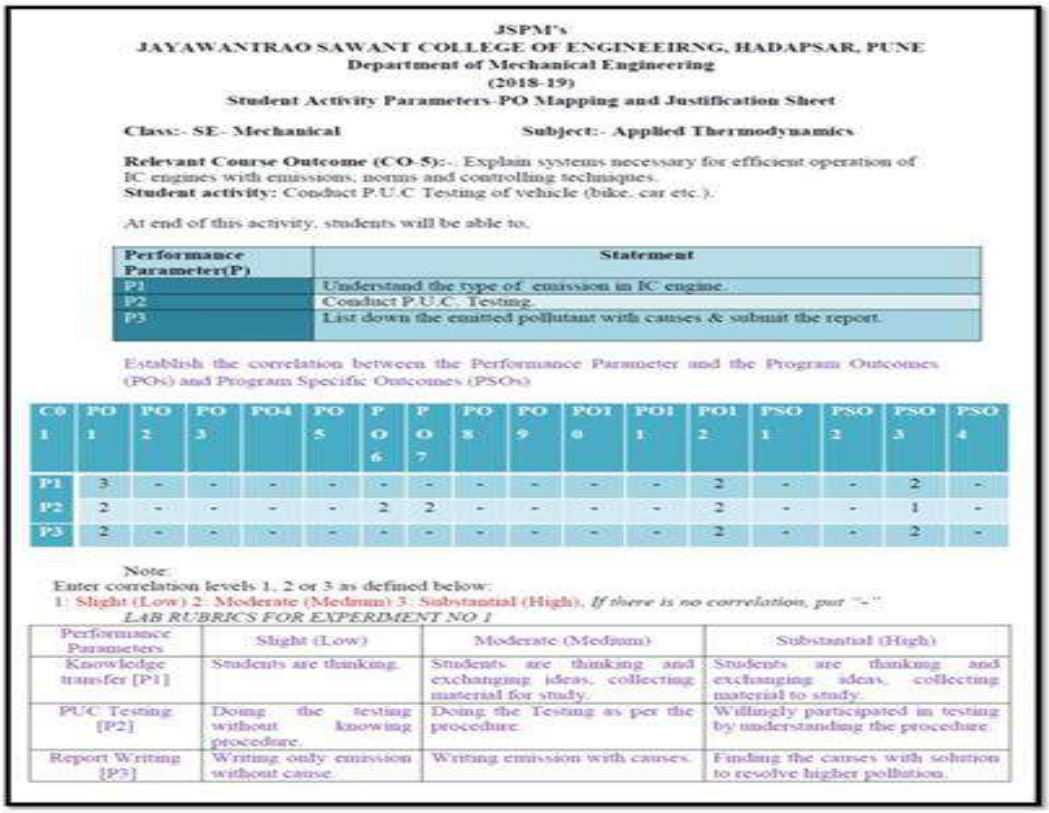
C. Evidence of CO's coverage in Mid Term test /End term tests

- The course coordinator prepares the Question paper for proper coverage of CO-PO.
- Module coordinator and subject teacher brainstorm the pattern of question paper with appropriate CO coverage. The evidence is shown in the Fig. 1.1.2(b)

D. Quality of assignments and its relevance to COs:

- Assignments are one of the tools for continuous improvement and evaluation and the department effectively utilizes the tool to ensure outcomes. Department conducts two types of assignments to achieve lower and higher-order learning of students,
- Textual: it includes a set of questions along with mapping of PIs, POs, and BL, the questions are preferably set to ensure the application of core knowledge and basic engineering principles.
- Field scenario assignments: it includes the activities of problem-solving assignments, where students are engaged in real-life application of gained knowledge hence a higher level of learning is ensured.

A sample of scenario assignment is shown in Fig.1.1.2(d) and Fig.1.1.2(e).



JSPM's
JAYAWANTRAO SAWANT COLLEGE OF ENGINEEIRNG, HADAPSAR, PUNE
Department of Mechanical Engineering
(2018-19)
Student Activity Parameters-PO Mapping and Justification Sheet

Class:- SE- Mechanical Subject:- Applied Thermodynamics

Relevant Course Outcome (CO-5):-. Explain systems necessary for efficient operation of IC engines with emisssions, norms and controlling techniques.
Student activity: Conduct P.U.C Testing of vehicle (bike, car etc.).

At end of this activity, students will be able to,

Performance Parameter(P)	Statement
P1	Understand the type of emission in IC engine.
P2	Conduct P.U.C. Testing.
P3	List down the emitted pollutant with causes & submit the report.

Establish the correlation between the Performance Parameter and the Program Outcomes (POs) and Program Specific Outcomes (PSOs)

CO 1	PO 1	PO 2	PO 3	PO4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3	PSO 4
P1	3	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-
P2	2	-	-	-	-	2	2	-	-	-	-	2	-	-	1	-
P3	2	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-

Note:
Enter correlation levels 1, 2 or 3 as defined below:
1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High), *If there is no correlation, put "-"*

LAB RUBRICS FOR EXPERIMENT NO 1

Performance Parameters	Slight (Low)	Moderate (Medium)	Substantial (High)
Knowledge transfer [P1]	Students are thinking.	Students are thinking and exchanging ideas, collecting material for study.	Students are thinking and exchanging ideas, collecting material to study.
PUC Testing [P2]	Doing the testing without knowing procedure.	Doing the Testing as per the procedure.	Willingly participated in testing by understanding the procedure.
Report Writing [P3]	Writing only emission without cause.	Writing emission with causes.	Finding the causes with solution to resolve higher pollution.

Fig. 1.1.2(d): Activity Parameters

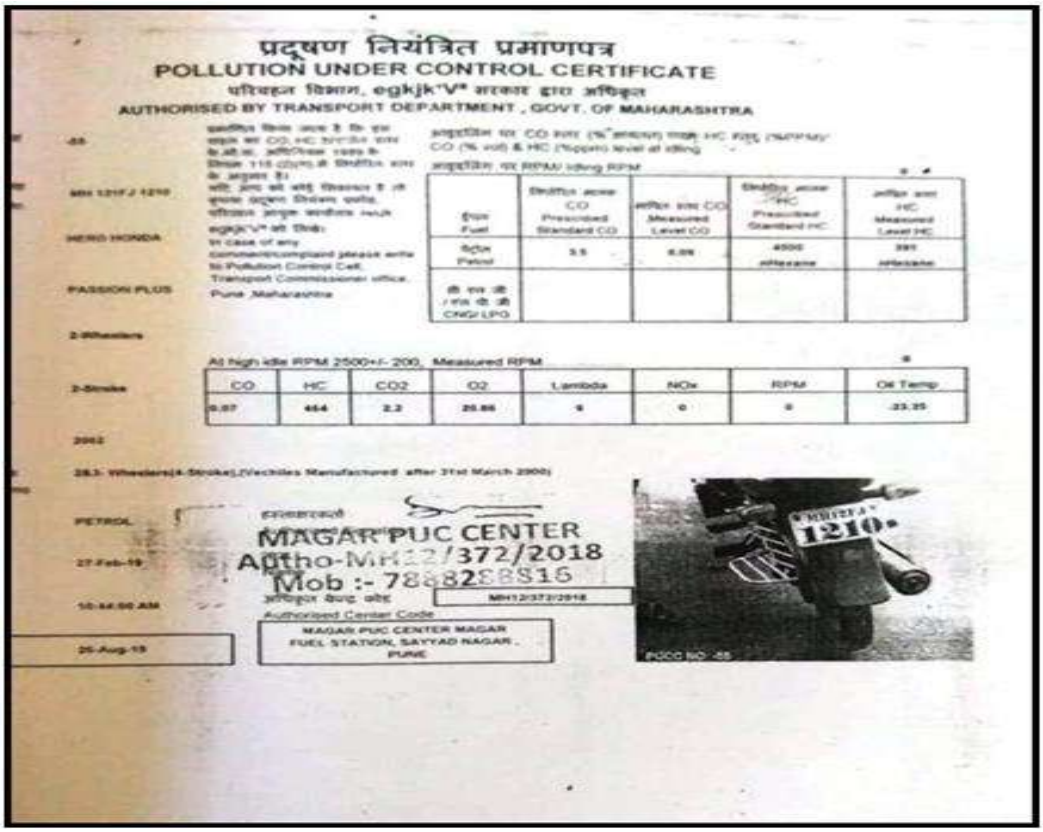


Fig. 1.1.2(e): P.U.C. Testing of vehicle

E. Assignments during Pandemic

- During pandemic, activities or assignments are of online nature. More emphasis is given on game pedagogy and simulation type assignments. Samples of the same are shown in Fig. 1.1.2(f) and 1.1.2(g).

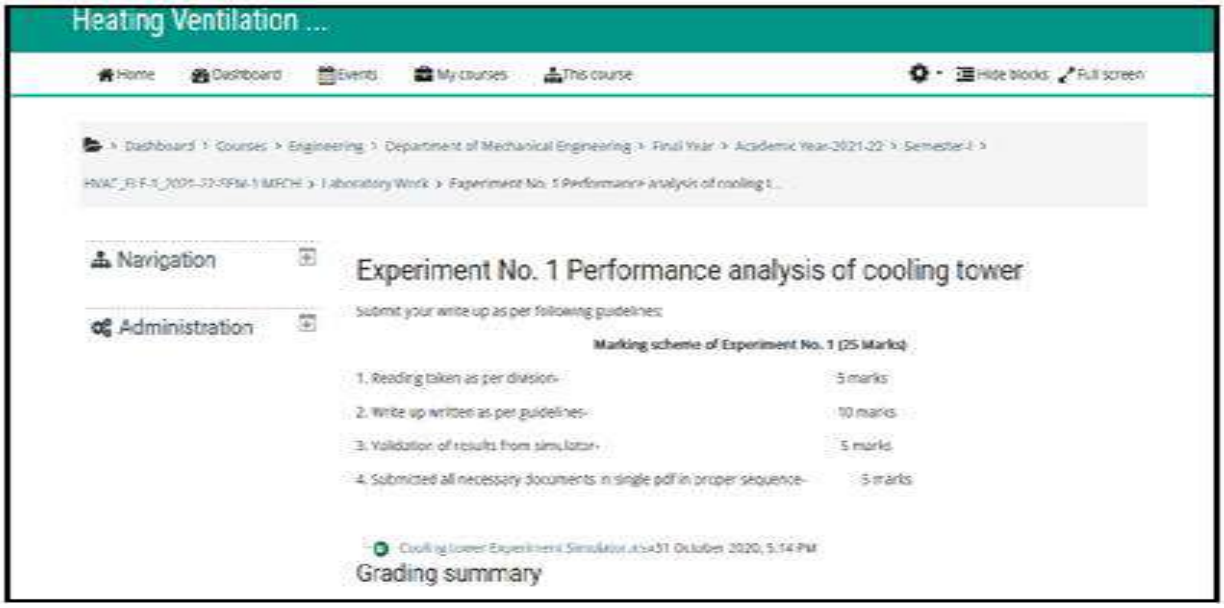
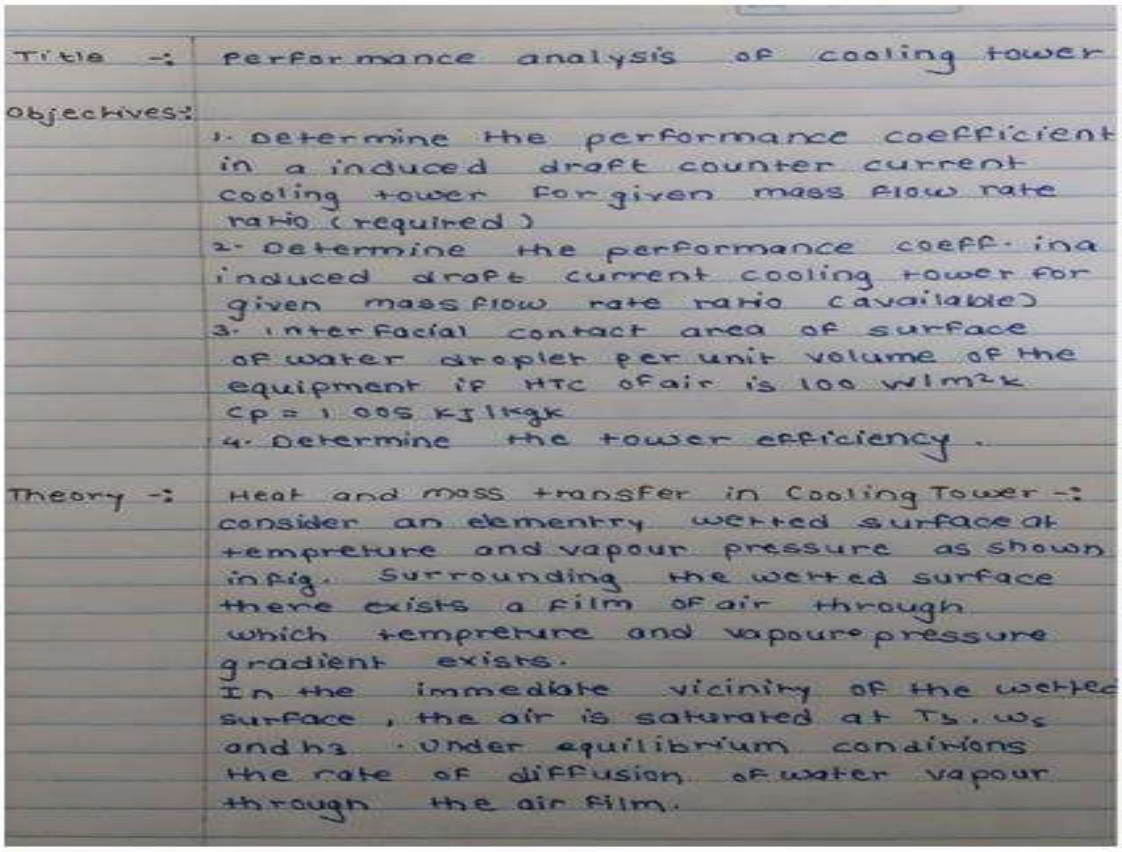


Fig.1.1.2(f): Sample Moodle based assignments



Title -: Performance analysis of cooling tower

Objectives:

1. Determine the performance coefficient in a induced draft counter current cooling tower for given mass flow rate ratio (required)
2. Determine the performance coeff. ina induced draft current cooling tower for given mass flow rate ratio (available)
3. Interfacial contact area of surface of water droplet per unit volume of the equipment if HTC of air is 100 W/m^2K Cp = 1.005 KJ/kgk
4. Determine the tower efficiency.

Theory -: Heat and mass transfer in Cooling Tower -: consider an elementry wetted surface at tempreture and vapour pressure as shown in fig. Surrounding the wetted surface there exists a film of air through which tempreture and vapour pressure gradient exists.
In the immediate vicinity of the wetted surface, the air is saturated at T_s. w_s and h_s. Under equilibrium conditions the rate of diffusion of water vapour through the air film.

Fig. 1.1.2(g): Sample Moodle based assignment submission

F. Continuous assessment in the laboratory

The internal assessment of a student's performance in the laboratory is done on a regular basis. Students perform the experiment/activity as per the guidelines mentioned in the lab manual.

- After successful completion of every experiment, the performance of each student is evaluated and graded as per the rubrics. Average of all the performances during the semester, considered as final practical marks.
- The lab reports are written and evaluated on a regular basis for continuous assessment.
- The process of assessment in the laboratory is as shown in the Fig. 1.1.2(h)
- A sample assessment sheet along with CO-PO mapping and rubrics is Shown in the Fig.1.1.2(i)

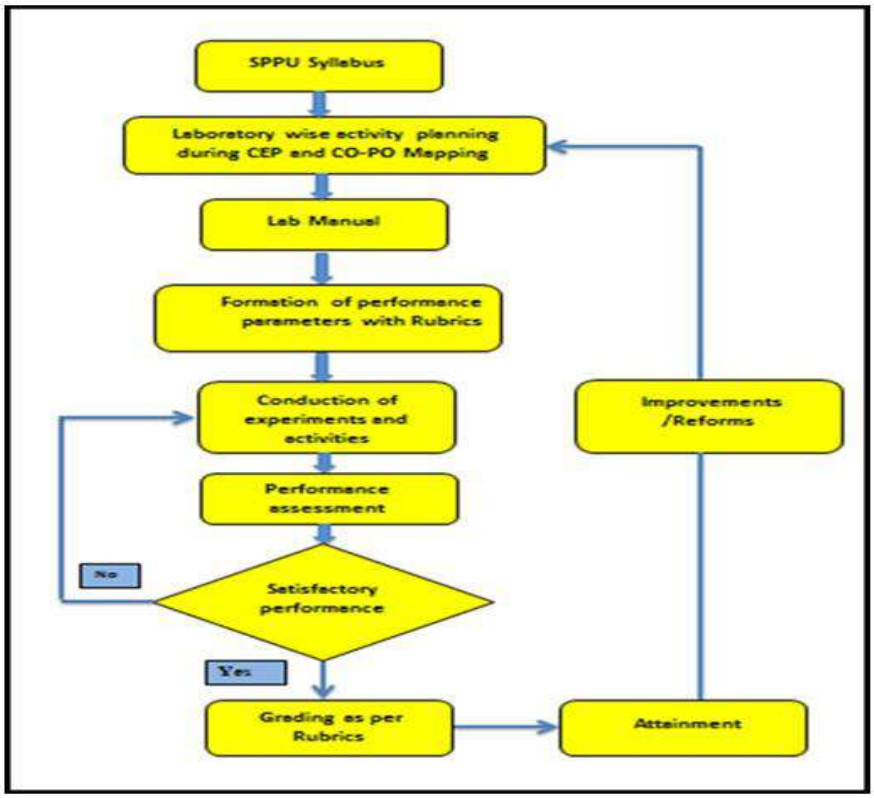
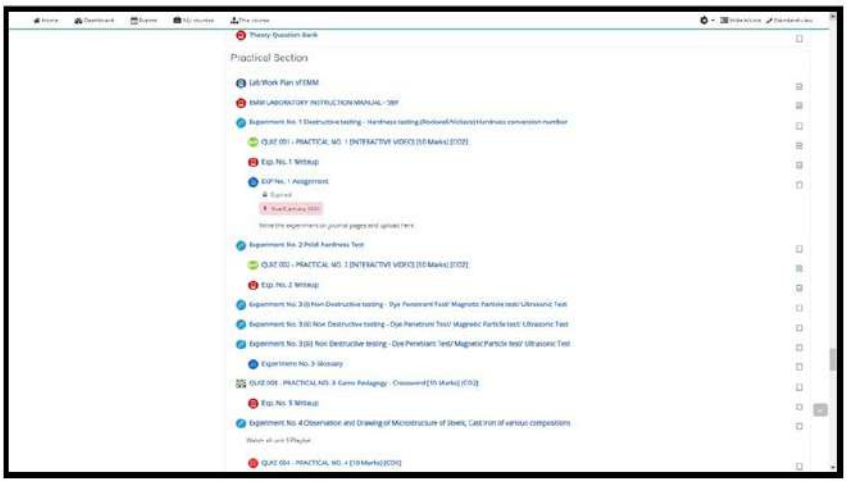
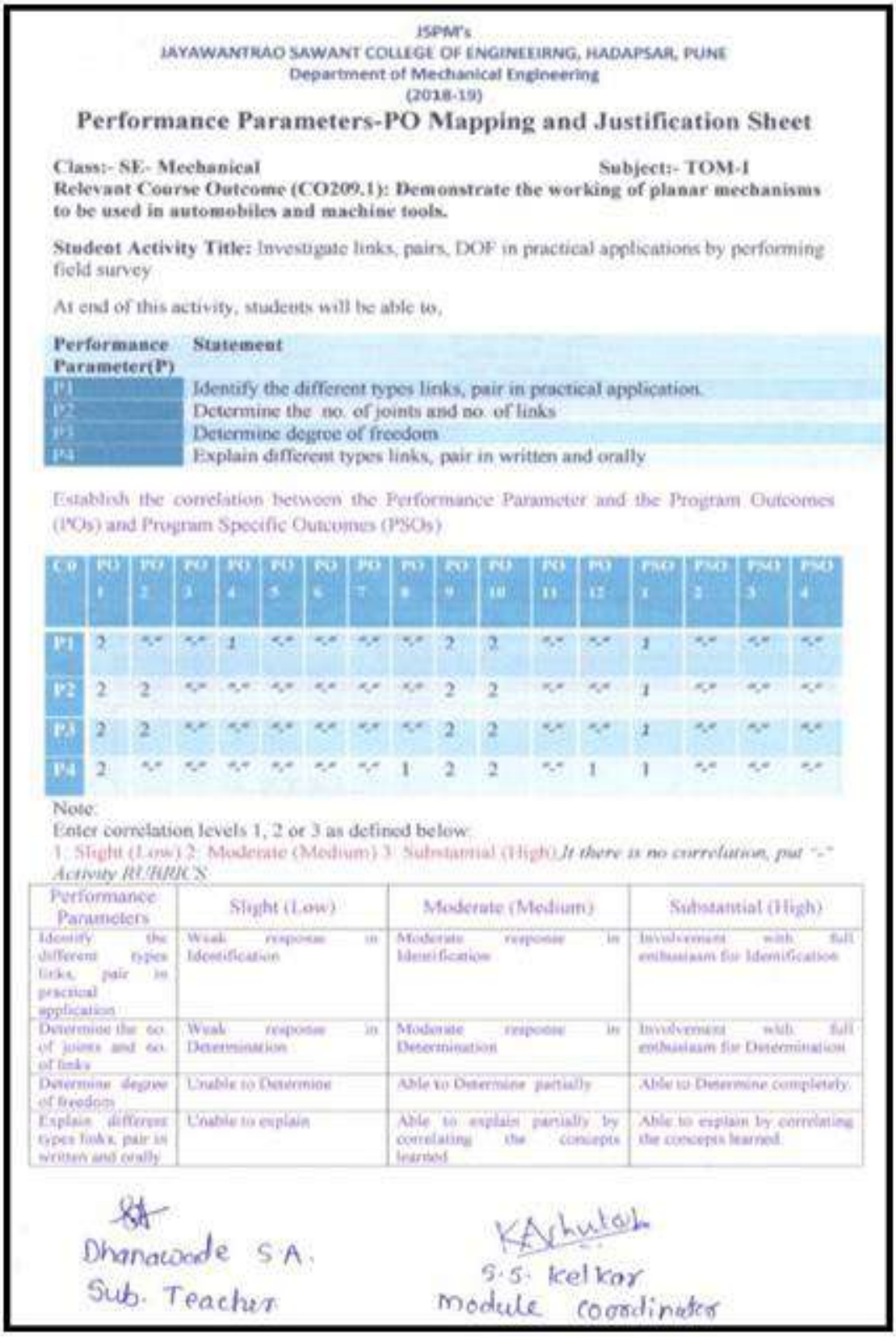


Fig.1.1.2 (h): Process of Continuous Assessment in the laboratory.



· Sample of performance parameter rubrics is shown in the figure **1.1.2 (i)**



JSPM's
JAYAWANTRAO SAWANT COLLEGE OF ENGINEEIRNG, HADAPSAR, PUNE
Department of Mechanical Engineering
(2018-19)

Performance Parameters-PO Mapping and Justification Sheet

Class:- SE- Mechanical **Subject:- TOM-I**

Relevant Course Outcome (CO209.1): Demonstrate the working of planar mechanisms to be used in automobiles and machine tools.

Student Activity Title: Investigate links, pairs, DOF in practical applications by performing field survey

At end of this activity, students will be able to,

Performance Parameter(P)	Statement
P1	Identify the different types links, pair in practical application.
P2	Determine the no. of joints and no. of links
P3	Determine degree of freedom
P4	Explain different types links, pair in written and orally

Establish the correlation between the Performance Parameter and the Program Outcomes (POs) and Program Specific Outcomes (PSOs)

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4
P1	2	-"-	-"-	1	-"-	-"-	-"-	-"-	2	2	-"-	-"-	1	-"-	-"-	-"-
P2	2	2	-"-	-"-	-"-	-"-	-"-	-"-	2	2	-"-	-"-	1	-"-	-"-	-"-
P3	2	2	-"-	-"-	-"-	-"-	-"-	-"-	2	2	-"-	-"-	1	-"-	-"-	-"-
P4	2	-"-	-"-	-"-	-"-	-"-	-"-	1	2	2	-"-	1	1	-"-	-"-	-"-

Note:
Enter correlation levels 1, 2 or 3 as defined below:
1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High) *If there is no correlation, put "-"*

Activity RUBRICS

Performance Parameters	Slight (Low)	Moderate (Medium)	Substantial (High)
Identify the different types links, pair in practical application	Weak response in Identification	Moderate response in Identification	Involvement with full enthusiasm for Identification
Determine the no. of joints and no. of links	Weak response in Determination	Moderate response in Determination	Involvement with full enthusiasm for Determination
Determine degree of freedom	Unable to Determine	Able to Determine partially	Able to Determine completely
Explain different types links, pair in written and orally	Unable to explain	Able to explain partially by correlating the concepts learned	Able to explain by correlating the concepts learned

Dhanawade S.A.
Sub. Teacher

S.S. Kelkar
Module Coordinator

Fig. 1.1.2 (i) : Sample of performance parameter rubrics.

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The sample grading sheet as per performance parameter based on rubrics is as shown in the figure 1.1.2 (j)

Academic Year 2018- 19 / Sem - II
SE B Div
Exp. No. 1 Assessment Sheet

Roll No.	Name of Students	P1	P2	P3	P4	Avg. Grade
2201	AHIRE SUDARSHAN TRYAMBAK	2	3	2	2	2.25
2202	ANDHALE AMOL PARMESHWAR	2	3	2	2	2.25
2203	ASHTEKAR VRUSHALI DINESH	3	2	2	2	2.25
2204	BARGAJE MAHESH MADHUKAR	1	1	2	2	1.5
2205	BAVISKAR MAYUR SANTOSH	2	2	2	3	2.25
2206	BHAMBID MAYUR MOHAN	3	3	3	3	3
2207	BHAWAR BHAGWAT PRABHAKAR	2	3	2	2	2.25
2208	BHOSALE KANCHAN SUNIL	2	2	1	1	1.5
2209	CHAUDHARI BHAVESH RAJESH	1	1	1	1	1
2210	DALVI SOHAM SUBHASH	2	3	1	2	2
2211	DESHMUKH AKASH SAHEBRAO	3	3	2	2	2.5
2212	DHOBE ANSHUL VITTHAL	2	3	2	3	2.5
2213	DIXIT PRASAD PRABHAKARRAO	2	2	2	2	2
2214	GAIKWAD JITESH SHESHERAO	1	2	1	1	1.25
2215	GANGEKAR ARUNDHATI AMBADAS	2	2	2	2	2
2216	GAWALI SUYOG ASHOK	1	1	1	1	1
2217	GORE RUSHIKESH DNYANDEO	3	2	3	3	2.75
2218	HAZARE ONKAR	1	1	1	1	1
2219	INGALE MAYUR MAHESH	1	1	1	1	1
2220	INGLE SHUBHAM DILIP	2	3	2	2	2.25
2221	JADHAV TEJAS JIJABHAU	1	3	1	1	1.5
2222	JAWARE KARAN BHAGWAT	2	1	2	1	1.5
2223	JOSHI RONALD	3	2	3	3	2.75
2224	KADAM SAVITA DHONDIRAM	2	2	1	2	1.75
2225	KALE SWARAJ	1	1	1	1	1
2226	KATKE AISHWARYA ASHOK	1	1	2	1	1.25
2227	KHANKAR RUSHIKESH SANTOSH	1	1	1	1	1
2228	KOLNURE SUDHAKAR HANMANT	1	2	2	2	1.75
2229	KOLPE KOMAL POPAT	2	2	2	2	2
2230	KURE GANESH ROHIDAS	3	3	3	3	3
2231	LASHKAR TUSHAR SANJAY	1	1	1	1	1
2232	LAVAND AKASH SHIVAJI	1	1	1	1	1
2233	LOKARE OMKAR RAGHUNATH	3	3	2	2	2.5
2234	MALAVE SAURABH DILIP	1	1	2	2	1.5
2235	MANE ABHIJEET SANJAY	2	2	2	2	2

Dr. P. A. Patil
(Subject Teacher)

Fig. 1.1.2 (j): sample grading sheet

G. Quality Of Student Projects.

- The projects need to address complex mechanical engineering problems with measurable outcomes
- The students must follow the entire process of design, development of the product and processes to meet specified needs with appropriate consideration in to the environment, safety, ethics and societal needs. The process used for identification, allotment of projects and procedures of monitoring and evaluation is illustrated in the Fig.1.1.2(k).

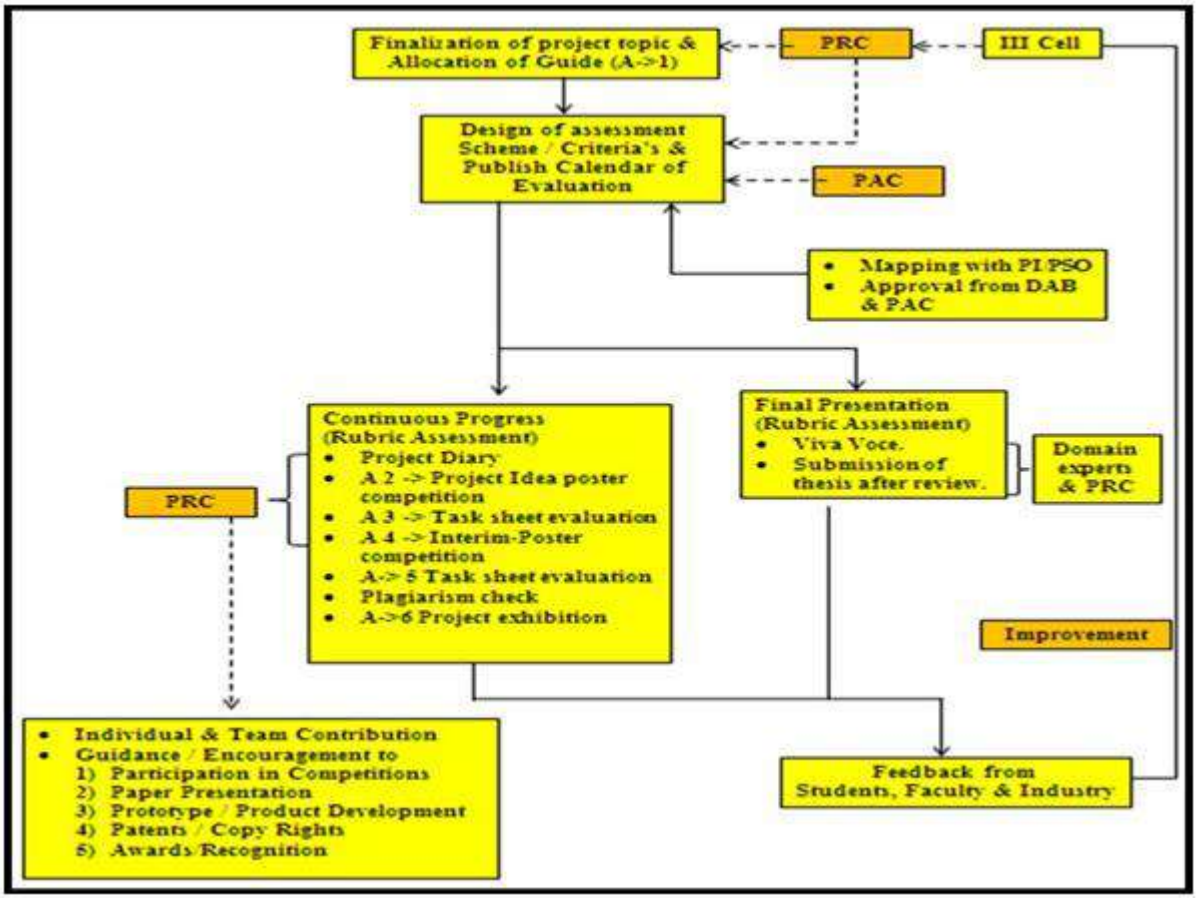


Fig.1.1.2(k): Project Identification, Allotment, Monitoring & Evaluation .

a) Identification of projects and allocation methodology:

- **Policies for identification of project:**

A meeting is held between PAC and Industry institute interaction cells to review the progression of previous year projects and discuss current/future technical scenarios. While the identification of projects, the prominence is given to interdisciplinary approach, societal needs, employability support and exposure to advanced technology.

Accordingly, suggestions and policies framed for the fourth-coming projects. The same is followed and implemented by the project review committee. The project may be identified by student/faculty or it may be a sponsored project;

1. **By student**

a. Propose at least one topics/ideas for project work;

b. Present the proposed topics before the project allocation committee**;**

2. **By faculty**

a. The faculty should propose at least three projects.

b. The consolidated list of the topics proposed by the faculty members displayed for the students to select as per domain interest.

3. **By sponsorship**

a. Students and faculty members should explore the opportunities for the project from industries.

b. The proposed sponsored project will be presented before the project allocation committee.

Students may select a project topic from any of the above-mentioned criteria. However, the project topic will be finalized by the allocation committee based on the quality, efficacy of the project idea.

b) Allocation methodology

Assessment of the project topics done by the project review committee, on the basis of technical feasibility, economic viability, and time frame. Then the allocation committee will finalize the project topic and will allocate the guides from a similar domain.

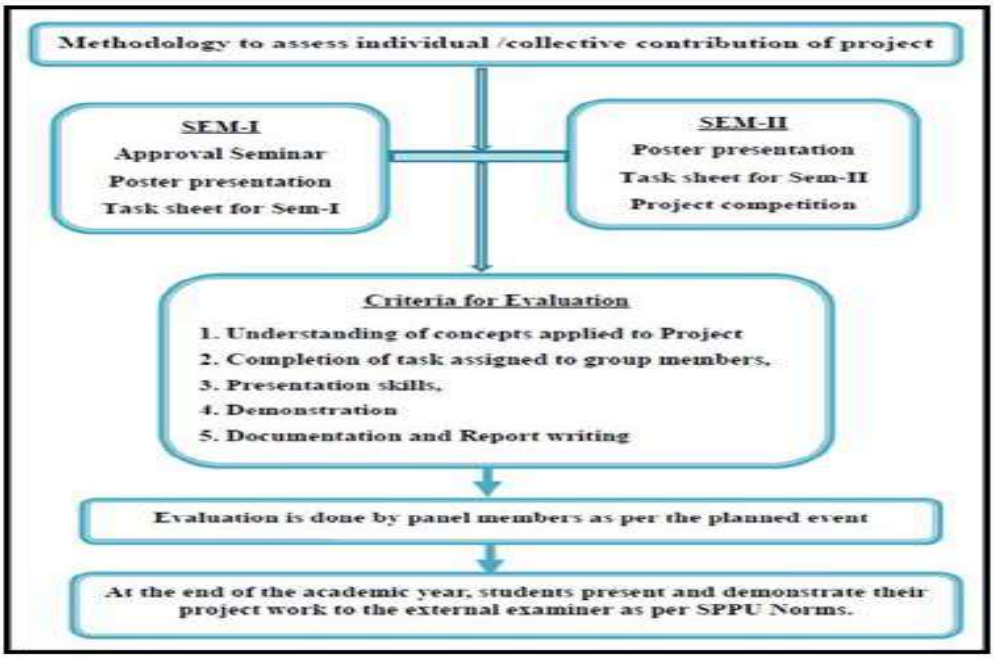


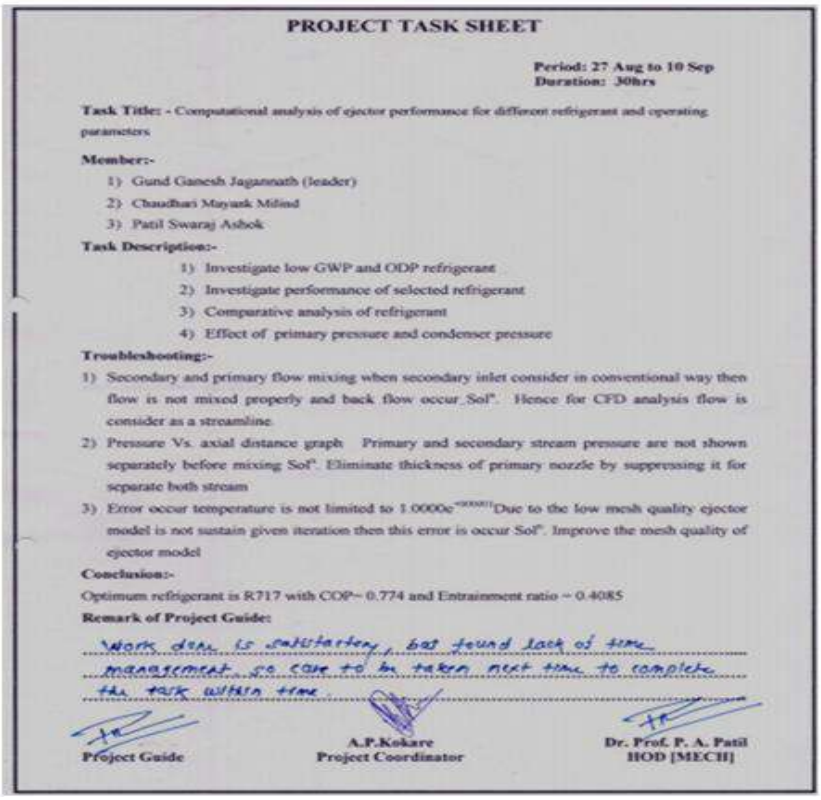
Fig. 1.1.2(I): Continuous evaluation process for the project.

Table 1.1.2 (b): Sample Evaluation sheet

Sr. No.	Particular		Marks
1	Synopsis	Synopsis & batch form submission within the time	5 (or 0*)
2	Title and objective	The clarity in the topic	5
		Partial clarity	3
		Only title	1
3	Project Planning	Outline of the project defined in the following Sequence: - Title, Scope, Objectives, Literature, Design, manufacturing, testing, validation, Result, Conclusion, references. If yes then 8 Marks if some points missing then reduce 1 mark per point.	10 (or 5*)
4	Presentation skills & QA	Well prepared and presentation of the allotted part to a particular student followed by satisfactory viva-voce	5
		Partially prepared the part of presentation allotted to a particular student followed by satisfactory viva-voce	3
		Poor presentation of part allotted to a particular student without viva-voce	1

c. Process to assess individual and team performance:

The project task sheet is framed to ensure the assessment of the individual member's performance as a team member and also as a team leader. As shown in Fig. 1.1.2(m) and Fig.1.1.2(n).



PROJECT TASK SHEET

Period: 27 Aug to 10 Sep
Duration: 30hrs

Task Title: - Computational analysis of ejector performance for different refrigerant and operating parameters

Member:-

1) Gund Ganesh Jagannath (leader)
2) Chaudhari Mayank Milind
3) Patil Swaraj Ashok

Task Description:-

1) Investigate low GWP and ODP refrigerant
2) Investigate performance of selected refrigerant
3) Comparative analysis of refrigerant
4) Effect of primary pressure and condenser pressure

Troubleshooting:-

1) Secondary and primary flow mixing when secondary inlet consider in conventional way then flow is not mixed properly and back flow occur Sol". Hence for CFD analysis flow is consider as a streamline.
2) Pressure Vs. axial distance graph Primary and secondary stream pressure are not shown separately before mixing Sol". Eliminate thickness of primary nozzle by suppressing it for separate both stream
3) Error occur temperature is not limited to 1.0000e"""""Due to the low mesh quality ejector model is not sustain given iteration then this error is occur Sol". Improve the mesh quality of ejector model

Conclusion:-

Optimum refrigerant is R717 with COP= 0.774 and Entrainment ratio = 0.4085

Remark of Project Guide:

Work done is satisfactory, but found lack of time management. so care to be taken next time to complete the task within time.

Project Guide | A.P.Kokare, Project Coordinator | Dr. Prof. P. A. Patil, HOD [MECH]

Fig. 1.1.2(m): Sample task sheet

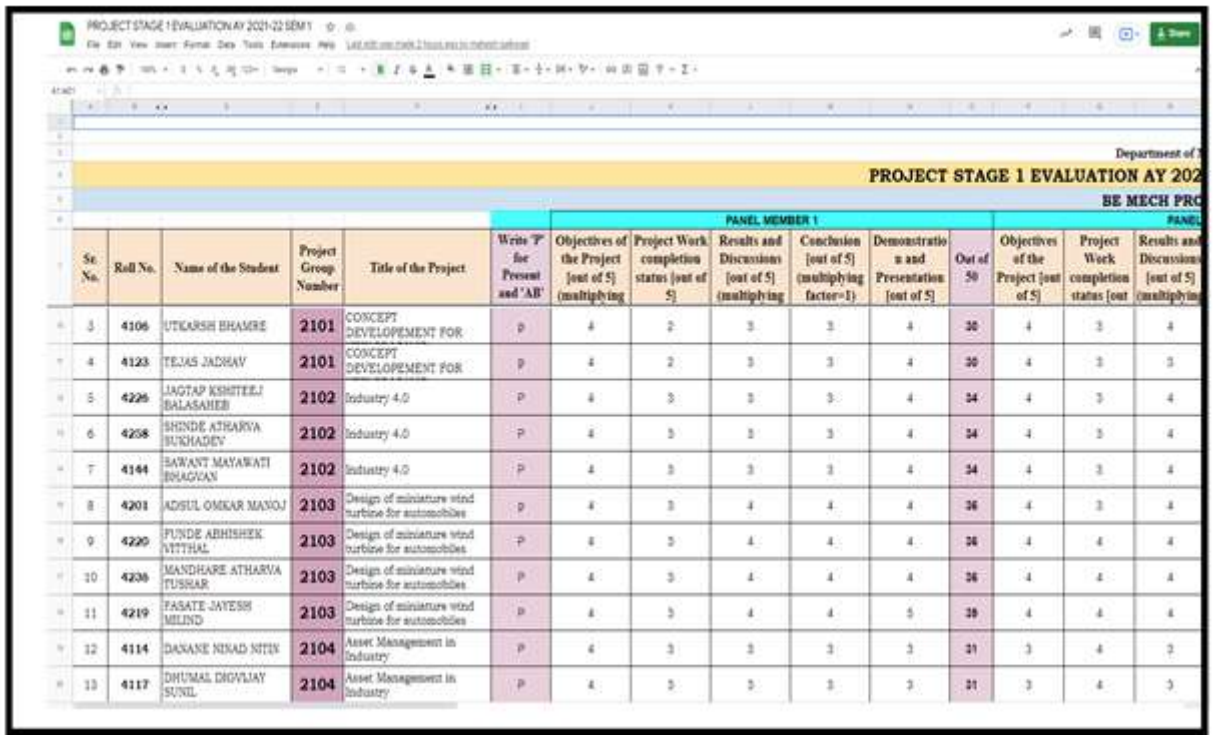
Performance Parameters

Sr. No.	Performance Parameters	Slight	Moderate	Substantial
1	Work quality	No/less work	Labour work	Creative work
2	Task outcome	No outcome	Partial outcome	Satisfactory
3	Trouble shooting	No problem	Problem but	Problem with full
4	Role	Inactive member	Active member	Leader
5	Duration	Less than 5hrs	Greater than 5 hrs but less than 10 hrs	10 hrs and more

Sr. No	Exam Seat No.	Name of Student	1	2	3	4	5	Total
1	71715022E	Mali Sainath Mukund	3	3	3	3	3	15
2	71714870L	Bhamre Sumit Bhaskar	3	3	3	3	3	15
3	71715125F	Savaratkar Vaibhav Ramchand	2	3	2	2	2	11
4	71714958H	Jadhav Sahil Shivaji	2	3	2	2	2	11

Fig. 1.1.2 (n): Sample of assessment based on the task sheet (Individual & Team leader)

The assessment of the task sheet used during pandemic is shown in Fig.1.1.2(o).



PROJECT STAGE 1 EVALUATION AY 2021-22 SEM 1

Department of

PROJECT STAGE 1 EVALUATION AY 202

BE MECH PRO

Sr. No.	Roll No.	Name of the Student	Project Group Number	Title of the Project	Write 'P' for Present and 'AB'	PANEL MEMBER 1 Objectives of the Project [out of 5] (multiplying	Project Work completion status [out of 5]	Results and Discussions [out of 5] (multiplying	Conclusion [out of 5] (multiplying factor=1)	Demonstration and Presentation [out of 5]	Out of 50	PANEL Objectives of the Project [out of 5]	Project Work completion status [out	Results and Discussions [out of 5] (multiplying
3	4106	UTKARSH BHAMRE	2101	CONCEPT DEVELOPEMENT FOR	P	4	2	3	3	4	36	4	3	4
4	4123	TEJAS JADHAV	2101	CONCEPT DEVELOPEMENT FOR	P	4	2	3	3	4	36	4	3	3
5	4226	JAGTAP KSHITEEJ BALASAHEB	2102	Industry 4.0	P	4	3	3	3	4	34	4	3	4
6	4258	SHINDE ATHARVA SUKHADEV	2102	Industry 4.0	P	4	3	3	3	4	34	4	3	4
7	4144	SAWANT MAYAWATI BHAGVAN	2102	Industry 4.0	P	4	3	3	3	4	34	4	3	4
8	4201	ADSUL OMKAR MANOJ	2103	Design of miniature wind turbine for automobiles	P	4	3	4	4	4	36	4	3	4
9	4220	PUNDE ABHISHEK VITTHAL	2103	Design of miniature wind turbine for automobiles	P	4	3	4	4	4	36	4	4	4
10	4238	MANDHARE ATHARVA TUSHAR	2103	Design of miniature wind turbine for automobiles	P	4	3	4	4	4	36	4	4	4
11	4219	FASATE JAYESH MILIND	2103	Design of miniature wind turbine for automobiles	P	4	3	4	4	5	38	4	4	4
12	4114	DANANE NINAD NITIN	2104	Asset Management in Industry	P	4	3	3	3	3	31	3	4	3
13	4117	DHUMAL DIGVIJAY SUNIL	2104	Asset Management in Industry	P	4	3	3	3	3	31	3	4	3

Fig. 1.1.2(o): Sample of assessment based on Rubrics (During online teaching-learning)

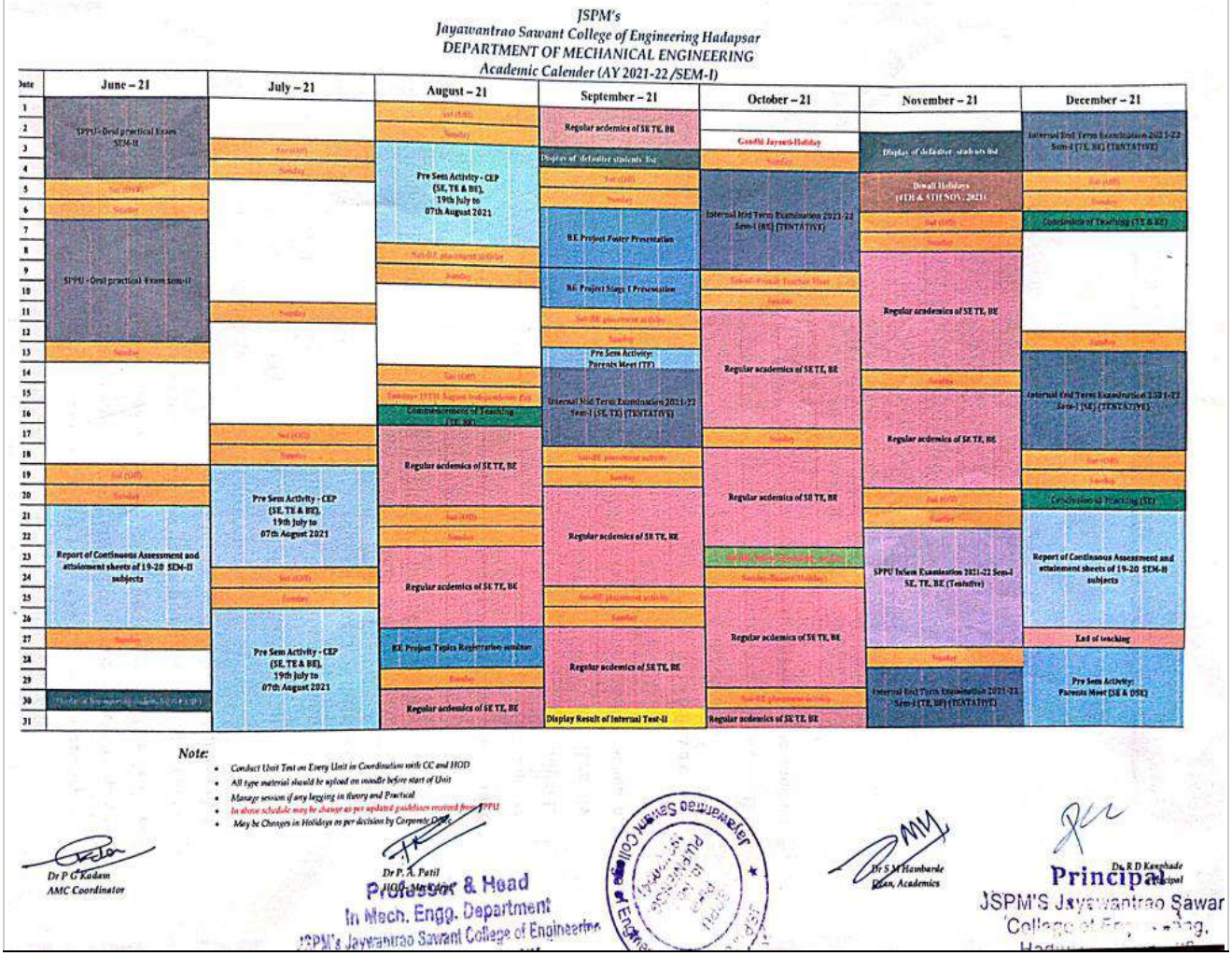
d. Project assessment during pandemic:

Students were allotted topics as per the regular practice

- Students selected project topics based on their interest and project groups were formed
- The regular evaluation activities done through online mode, where students gave presentation in front of the panel members
- Panel members assessed the students on the basis of individual and team level performance/contribution.

JSPM's
Jayawantrao Sawant College of Engineering Hadapsar
Academic Calendar (2021-22)

A.Y. :- 2021-22 Sem-I



JSPM's

JayawantraoSawant College of Engineering, Hadapsar. Pune-28

Department of Mechanical Engineering

Curriculum Enrichment Program for 2021-22Sem-I

GAP AnalysisWith Program Objectives for CEP

INTRODUCTION:

OBE (Outcome Based Education) is the key aspect for educational institutes in this era of globalization. While studying and at the time of passing out from the institute what the students have achieved (Knowledge, Awareness, Ethics, Moral, etc.) is the main point of concern. Central government of India has specified 12 attributes, a graduate engineer should possess and in OBE, quality of education or gain of the students is quantified in terms of attainment of these attributes.

In view of OBE; mere completion of syllabi as stipulated by the University will not be enough to fulfill the needs of OBE and hence to give justice to syllabi as well as the OBE, it is required to frame the curriculum in such a way that, while sticking to University syllabus still efforts are made to attain the more and more attributes to the best possible level. Therefore in view of this goal, this Curriculum Enrichment Program has been organized by the institute to frame out the curriculum for semester-I subjects of Academic Year 2021-22 where efforts will be made to design activities in such a way as to help attain the attributes at best possible level

PROGRAMME OBJECTIVES:

The participants through this CEP should:

- SPPU CO-PO mapping, CO formation, CO-PO-PSO mapping.
- Attainment Levels and Actions for improvement
- Develop an appreciation of case method in teaching and learning in Mechanical Engineering.
- Become aware of background preparation required to become successful case teachers;
- Get motivated to use case method of teaching in appropriate learning contexts.
- To design ICT based teaching learning material to be collecting and develop and also prepare academic plan subject wise.

JSPM's

JayawantraoSawant College of Engineering, Hadapsar. Pune-28

Department of Mechanical Engineering

Curriculum Enrichment Program for 2021-22 Sem-I courses

Program Schedule

Date	Week	Particulars
July 12-17, 2021	Week 1	Syllabus of Unit 1 & 2 Applicable picture, depicting content of unit Self-Video Lectures as per content (Min.5 video Notes as per syllabus (Flipbooks/Typed/handwritten) Activity 1:- Simple Quiz Activity 2:- Game Pedagogy -I Activity 3:- Image related Quiz (Addressing BL4) Activiy 4:- Numerical Quiz/ Game Pedagogy -II/H5P Interactive content Theory Question Bank
July 12-17, 2021	Week 2	Syllabus of Unit 3 & 4 Applicable picture, depicting content of unit Self-Video Lectures as per content (Min.5 video Notes as per syllabus (Flipbooks/Typed/handwritten) Activity 1:- Simple Quiz Activity 2:- Game Pedagogy -I Activity 3:- Image related Quiz (Addressing BL4) Activiy 4:- Numerical Quiz/ Game Pedagogy -II/H5P Interactive content Theory Question Bank
July 26-31, 2021	Week 3	Syllabus of Unit 5 & 6 Applicable picture, depicting content of unit Self-Video Lectures as per content (Min.5 video Notes as per syllabus (Flipbooks/Typed/handwritten) Activity 1:- Simple Quiz Activity 2:- Game Pedagogy -I Activity 3:- Image related Quiz (Addressing BL4) Activiy 4:- Numerical Quiz/ Game Pedagogy -II/H5P Interactive content Theory Question Bank
Aug 02-07, 2021	Week 4	Experiment videos out of 8 Experiment quiz available out of 8

JSPM's Jayawantrao Sawant College Of Engineering Hadapsar, Pune-28.
SAEINDIA BAJA TEAM

Prof. Professor & Head (Faculty Advisor)
(HOD) Mech. Engg. Department
JSPM's Jayawantrao Sawant College of Engineering
Hadapsar, Pune 411 028.

PRINCIPAL
J.S.P.M.'S Jayawantrao Sawant
College of Engg.
Hadapsar, Pune-28

30

Chief Patron

Hon'ble Shri. T. J. Sawant
Founder Secretary
Jayawant Shikshan Prasarak Mandal,Pune

Patron

Dr. M. G. Jadhav
Campus Assistant Director, JSPM's JSCOE, Hadapsar

Prof. Sanjay Sawant
Assit. Campus Director, JSCOE, Hadapsar

Organizing Chairman

Prof. Dr. R. D. Kanphade
Principal, JSPM's, JSCOE, Hadapsar, Pune-411028.

FDP Secretary

Prof. Suneeta Phadkule
HOD, Mechanical Engineering
Email: suneetaphadkule@yahoo.co.in
Contact No: +919422538856

CDP Convener

Prof. Dr. Pradeep A. Patil
HOD [MECH], Contact No: +919765542844

Advisory Committee

Dr. A. G. Kharat, Director Academics.
Prof. Anil Bhosale, Deputy Director Academics
Prof. Hemant Joshi- ARQAC Member.
Dr. Nitin Khardekar- ARQAC Member.

Organizing Committee

Prof. Dr. Nilesh Alone	9881933885
Prof. Dr. Prakash Kadam	98232 04824
Satej Kelkar	98220 29364
Mahesh Gaikwad	98222 80955
Pradnya Kosbe	94219 58594
Laxman Mane	99227 47745
Ulhas Malwade	99755 63891
Suvarna Ghadge	98227 39598
Amol Kokare	94218 66313
Manisha Nalawade	94238 04029

About The JSPM

Jayawant Shikshan Prasarak Mandal was set up in 19[illegible] under able & dynamic leadership of Prof. T. J. Sawant with an objective of providing quality education in fields of Engineering, Management, Computer Applications, Pharmacy, Education & Basic School education from Kinder Garden onwards. In short "Quality Education from K.G to P.G." There are 55 institutes under the aegis of JSPM offering full fledged school education, Diploma, Graduation, Post graduation in various branches of Engineering & Management, at five educational campuses ideally located in various parts of Pune city in picturesque environment conducive for better & effective Teaching – Learning process.

About Jayawantrao Sawant College of Engineering

Jayawantrao Sawant College of Engineering, since its establishment in 2004 is involved in practicing various teaching learning methodologies of excellence to deliver quality engineering education to students coming from all corners of the country. The institute is located at Hadapsar (Pune) surrounded by industries, IT companies & reputed townships. The excellent academic calendar with space for individual skills and personality development, excellent team work of faculty members & initiative for industry interface are salient features of the college.

About Savitribai Phule Pune University

Savitribai Phule Pune University (SPPU) formerly University of Pune, called as the Oxford of East, is one of the leading Universities in India. The National Assessment and Accreditation Council has given five star rating and UGC has identified SPPU as the "University with Potential for Excellence (UPE)". SPPU is one of the largest in world with more than five lakh students studying in 58 Post graduate departments, research centres and more than 800 affiliated colleges. SPPU supports R&D activities undertaken by affiliated colleges to a great extent. The atmosphere in Pune is quite pleasant to stay during winter season. It is well connected by all means to all corners of the country.

E-mail Address for Communication

jscoemechanical@gmail.com

Organized by
Dept of Mechanical Engineering
Contact: (020)-26970886
www.jspm.edu.in

JSPM's
JAYAWANTRAO SAWANT COLLEGE OF ENGINEERING
Hadapsar, Pune – 411028

Announces

CEP

A
4 Week Curriculum Enrichment Program

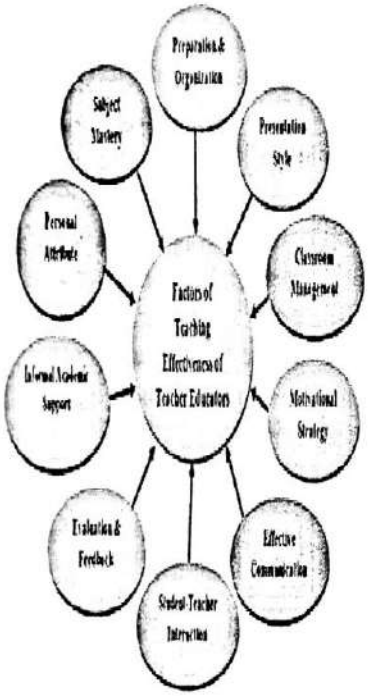
On
Curriculum Design for Semester-I Subjects

12th July. to 07th Aug. 2021

Sponsored by

JSPM Pune

About FDP



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Date	Week	Particulars
July 12-17, 2021	Week 1	Syllabus of Unit 1 & 2 Applicable picture, depicting content of unit Self-Video Lectures as per content (Min.5 video Notes as per syllabus (Flipbooks/Typed/handwritten) Activity 1:- Simple Quiz Activity 2:- Game Pedagogy -I Activity 3:- Image related Quiz (Addressing BL4) Activiy 4:- Numerical Quiz/ Game Pedagogy -II/H5P Interactive content Theory Question Bank
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Aug 02-07, 2021	Week 4	Experiment videos out of 8 Experiment quiz available out of 8

- Course Assessment Plan

CO Assessment Process : Direct Tools-Graded and Indirect Graded (Internal)

Course:- Computer Aided Engineering (AY 2021-22) TE-2019 Pattern

CO	UNIT	Marks allocation	Objective Test						Game Pedagogy			Lab Work		Internal Test		Total	% Distribution
			OT 1 (10)	OT 2 (10)	OT 3 (10)	OT 4 (10)	OT 5 (10)	OT 6 (10)	Snake & Ladder	DRAG AND DROP	Numerical / Quiz	50	In Sem	MTT	ETT	100	
CO1	I	15	10						10	10	10	10	15	15		60	15
CO2	II	15		10					10	10	10	10	15	15		60	15
CO3	III	10			10				10	10	10	20			15	75	17
CO4	IV	15				10			10	10	10	10			15	65	15
CO5	V	10					10		10	10	10	20			15	75	17
CO6	VI	15						10	10	10	10	10			15	65	15

Prof. A. P. Rananaware
Subject Teacher

Dr. E. N. Allavade
Module Co-ordinator

Dr. P. A. Patil
HOD, Mechachnical Engineering Department

JSCOE – Mechanical Moodle data Index

- **Announcements**
  - Attendance
  - Syllabus
  - Teaching L Plan UPDATED
  - CO assessment plan
  - CAS format for PR/TW marks calculation for students awareness
  - E-books
- **Exam Section**
  - Insem Exam
  - MTT (Written Exam)
  - ETT (Written Exam)
  - SPPU Solved Papers

- **Pre-requisites**
  - Pre-requisites videos and Quiz (you tube/NPTL video etc. links regarding pre-requisites and concern Quiz of minimum 20marks)
  - Recorded / You tube/ NPTL(give time slot to be watched for clearing required concept) minimum 2 and maximum 6 videos
  - Pre-requisites Quiz maximum 2 (each with 15 minutes duration)
  - Pre-requisites notes (Required to clear fundamentals of the subject)- Optional

- **Unit I: Name of the Unit**
  - Image/Gif representing Unit content
  - Syllabus and CO
  - Self Recorded Lecture videos / Links
  - Notes (Hand written / E-notes) / PPT in Flipbook format
  - Reference material for advanced study (optional)
  - Activity 1:- Simple Quiz
  - Activity 2:- Game Pedagogy -I
  - Activity 3:- Image related Quiz (Addressing BL4)
  - Activity 4:- Numerical Quiz/ Game Pedagogy -II/H5P Interactive content
  - Unit 1 Question Bank as per SPPU Syllabus (Theory)

Similarly to be followed for

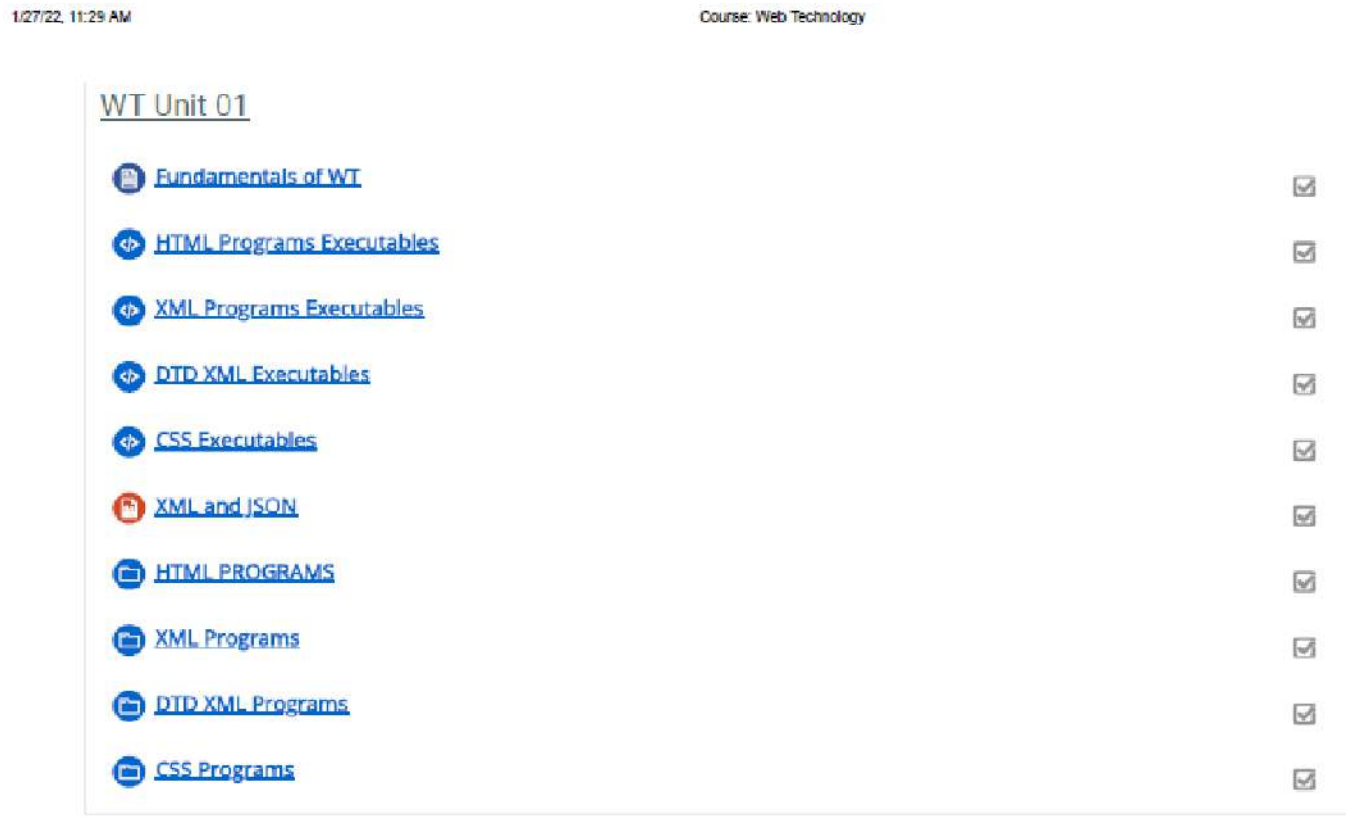
- Unit II
- Unit III
- UNIT IV
- Unit V
- Unit VI

- **Practical Section**
  - Practical/ Laboratory plan
  - Lab Manual
  - Experiment 1: Expt. details Video
  - Quiz (Bank with 20 Questions strictly based on Practical video) Quiz of 10 questions for 15 minutes
  - Write Up for reference
  - Expt. Submission (10 Marks)

- **Online Courses (Coursera /NPTL etc.)**
  - Link of courses
  - Submission of certificates

Moodle Course Contents :

Each faculty prepares course content during CEP and uploads on moodle.One sample course snapshot is shown below.



Continuous assessment sheet link for AY 2021-22

Jayawantrao Sawant College of Engineering, Pune

402045 B | SUBJECT - Industrial Engineering

Faculty: PGK | GFM

CONTINOUS ASSESSMENT SHEET (A.Y. 2021-22)

ROLL NO.	NAME OF STUDENTS		ASSESSMENT TOOLS											Course total	Internal Assessment Marks	Modified Marks
			Unit 1 [CO 1]		EXPERIMENTAL ASSESSMENT			STUDENT ACTIVITY		INTERNAL TEST ASSESMENT						
			Activity No.1.1	Activity No.1.4	Expt 01	Expt 02	Expt 09	SA 1	SA 2	MTT [Q.1]	MTT [Q.3]	ETT [Q.1]	ETT [Q.6]			
			CO01	CO01	CO02	CO02	CO06	CO01	CO04	CO 1	CO 3	CO 1	CO 6			TW
			20	20	20	20	25	10	5	10	10	7	16	705	25	25
4101	ABNAVE TEJAS VITTHAL	NDR	15	17	20	20	-	8	-	7	3	5	5	474	18	18
4102	AHERRAO AKSHAYKUMAR RAMDAS	NUA	18	20	19	18	18	8	-	5	5	4	4	518	20	20
4103	BALODE ADITYA SANJAY	NDR	7	12	-	-	-	-	-			3	6	97	4	10
4104	BANDI HARSHAD ISHWAR	NDR														
4105	BHAMARE YASH KAMALAKAR	NDR	12	19	9	14	18	8	5	8	3	4	4	392	15	15
4165	GITE MANGESH SUBHASH	NUA	15	15	20	20	21	8	4	8	3	8	5	451	17	17
4172	JAGTAP RUSHIKESH VIJAY	SRG	17	18	-	-	-	-	-	8	4			72	3	10
4173	GODSE DEEPAK HEMANT	ALD	19	19	20	20	20	8	-	10	4	5	-	585	22	22
4174	PATIL NAGESH PRAKASH	NDR	12	19	-	-	-	-	-					143	5	10
4201	ADSUL OMKAR MANOJ	GKL	15	19	20	20	18	8	5	7	2	5	4	611	23	23
4202	AGRAWAL PIYUSH ANIL	GKL	4	11	14	20	20	9	-	9	4	4	4	546	21	21
4203	AGRE YOGESH SHIVRAJ	GKL	18	17	20	0	-	5	5	10	4	4	4	495	19	19
4204	AMBLEPATIL AMRUT NAMDEO	GKL	20	7	4	6	18	8	-	8	3	5	8	272	10	10
4268	MORVE SAUD SHAKIL AHEMAD	NUA														
4269	GANESH CHANDRAKANT TALOLE	GKL	6	7	16	12	-	-	-	4	3	3	6	245	9	15
4270	PATIL PRATIK KISHOR	NUA	13	17	7	18	-	8	-			3	6	447	17	17
4301	AMNADATE ANKET VIJAYKUMAR	SCB	15	14	20	6	20	-	-	10	2	4	8	462	18	18
4302	BADGE RAHUL SUNDERAO	SCB	7	0	0	0	8	6	-	8	2	3	6	226	9	15
4303	BALDOTA YASH SATISH	NUA	17	19	20	16	22	8	5	10	4	-	6	604	23	23
4304	BANDODKAR SAHIL	SCB	12	10	-	-	-	-	-	10	1	5	6	207	8	14
4371	KHOSARE MAYUR BALASAHEB	PGK	13	-	-	-	-	0	0					62	2	10
4372	DHUSHAM SANDIPAN GAIKWAD	SST														
4373	SANKPAL VINAY RAJAN	SRG	13	17	-	-	-	0	0					177	7	14
4374	PAWAR PRASHANT	VNA	9	20	4	13	-	0	0					224	9	16

Fig.: Sample continuous assessment sheet

IQAC Guidelines

Guidelines for course file preparation

All the Subject-in-charge should follow the following guidelines while preparing the course file and approve the content from module coordinator based on following parameters.

A.Teaching and Learning Plan:

1. Adherence to Academic Calendar
2. Use of various instructional methods
3. Methodologies to support weak students and encourage bright students
4. List of text, reference books, video links, research papers.

B**.CO-PO Mapping**

1. Relevancy of Cos with Syllabus curriculum.
2. Preparation of a matrix of COs and PO statement
3. Consistency/justification of co-relation parameters of the above matrix

C.GAP IDENTIFICATION

1. Steps taken to get identified gaps included in the curriculum.(e.g. letter to university/BOS)
2. List of curricular gaps for the attainment of defined POs & PSOs
3. Delivery details of content beyond syllabus
4. Mapping of content beyond syllabus with the POs & PSOs

D.LABORATORY

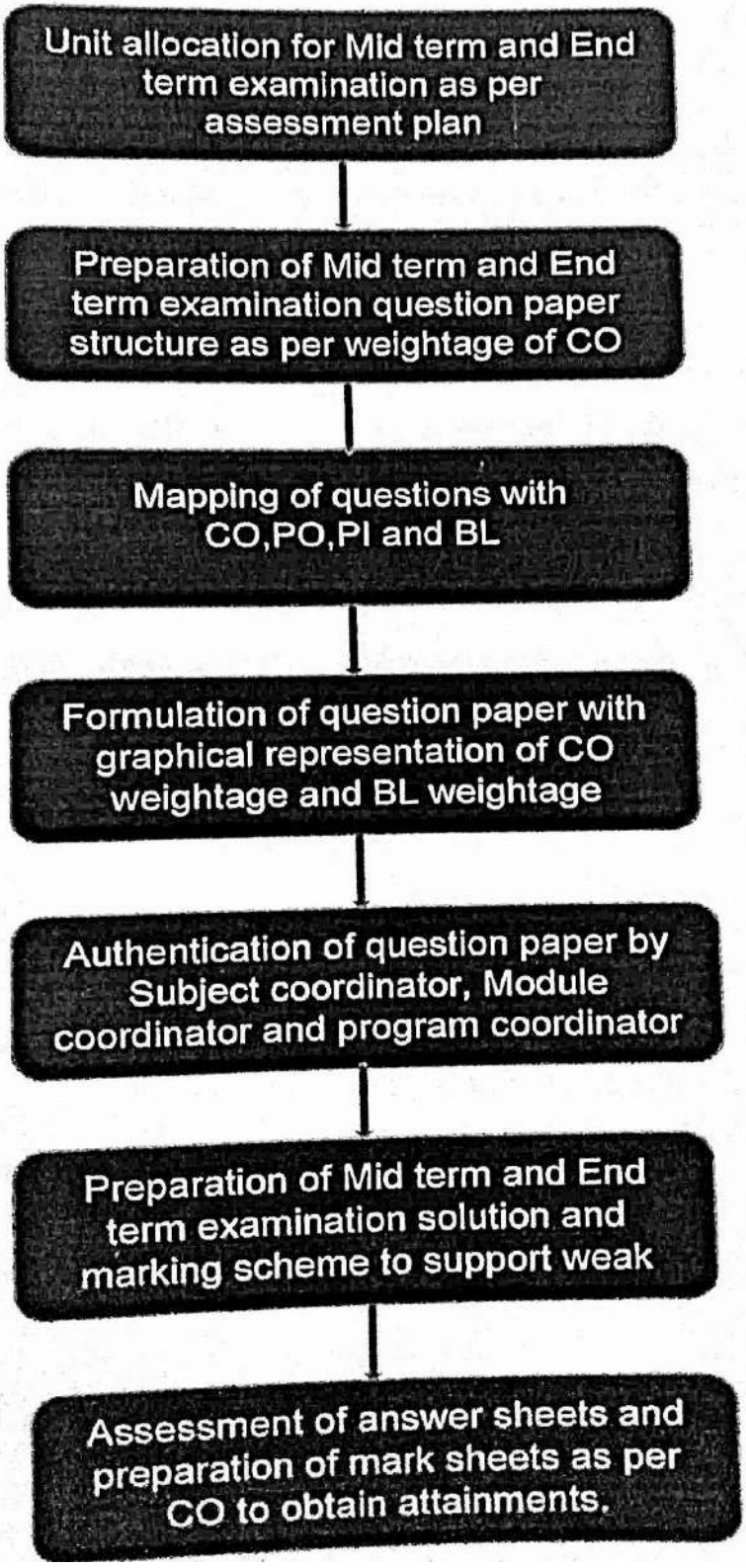
1. Conduct of experiments (Observation in Lab)
2. Continuous Assessment in the laboratory

E. QUALITY OF internal ASSESSMENT

1. Question paper validation to ensure desired standard from outcome attainment perspective as well as learning levels perspective
2. Quality of Assignment and its relevance to Cos
3. Evidence of COs coverage in class test / mid-term tests
4. Assignments to promote self-learning, survey of contents from multiple sources, assignment evaluation and feedback to the students, mapping with the Cos
5. Verify the attainment levels as per the benchmark set for all courses.

JSPM's
Jayawantrao Sawant College of Engineering, Hadapsar, Pune.
Department of Mechanical Engineering

Internal Test Question Paper Setting and Assessment Procedure



JSPM's
JAYAWANTRAO SAWANT COLLEGE OF ENGINEERING, HADAPSAR (PUNE-28)
Academic Year 2021-22 (Semester-I)

Date: 11/09/2021

Department of mechanical Engineering

NOTICE Regarding Mid Term Test

All the students are hereby informed to note that,SE and TE Mid Term Test is scheduled from 13th September 2021 for A.Y.2021-22 (Sem-I). Note following points strictly.

1. Number of Unit for Test :02 (First Two)
2. Maximum Marks : 30
3. Time Duration: 01Hrs
4. Time for Uploading: 15min
5. It is written examination. You have to write the answers then scan it, make the pdf of that document, and upload on the Moodle for respective subject.
6. There are two compulsory questions with sub questions(For example Q.1a, Q.1b, Q. 2a and Q. 2b).
7. Each question carry 15 Marks
8. Total Marks: 30
9. Under exam section, there is Mid term test assignment. For each question there will be separate assignment will be available for uploading the document. (For example Q. 1 and Q. 2)

10. Upload file on Moodle on the given assignment in the pdf format.
11. File size should not be more than 1MB

Aditya Bawane
[Exam co-coordinator]

Pradnya Kosbe
[Exam Coordinator]

Dr. P. A. Patil
HOD [Mechanical]

JSPM's

JAYAWANTRAO SAWANT COLLEGE OF ENGINEERING, HADAPSAR (PUNE-28)

Academic Year 2021-22 (Semester-I)

Date: 07/09/2021

Department of mechanical Engineering

NOTICE Regarding Mid Term Test

All the students are hereby informed to note that, SE and TE Mid Term Test is scheduled from 13th September 2021 for A.Y.2021-22 (Sem-I). Note following points strictly.

1. Number of Unit for Test :02 (First Two)
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3. Time Duration: 01Hrs
4. Time for Uploading: 15min
5. Upload file on Moodle on the given tab in the pdf format.
6. File size should not be more than 1MB

Time: 2.00pm to 4.00pm

TIME-TABLE [SE &TE]

Sr. No.	Date	Day	SE	TE	Mech
1.	13-09-2021	Monday	SM	NSM	02:00 to 04:00
2.	14-09-2021	Tuesday	SMD	HMT	02:00 to 04:00
3.	15-09-2021	Wednesday	ET	DME	02:00 to 04:00
4.	16-09-2021	Thursday	EMM	MECHX	02:00 to 04:00
5.	17-09-2021	Friday	EEE	ELECTIVE - I	02:00 to 04:00

Aditya Bawane
Exam Co-coordinator

Pradnya Kosbe
Exam Coordinator

Dr. Pradeep Patil
HOD MECH

JSPM's – JSCOE - MECH
Academic Year 221-22 / Sem - I
Mid Term Test
Marksheet

Div: BE A

Roll No.	Name of Students	H&P	CAD-CAM	DOM	ELE I-(FEA)	ELE I - (HCAC & R)	ELE II (EAM)	ELE II(OR)	EL-II AE	Total	Percentage
4101	ABNAVE TEJAS VITTHAL	26	24	21		19			19	109	72.67
4102	AHERRAO AKSHAYKUMAR RAVINDRA	25	26	12		19			22	104	69.33
4103	BALODE ADITYA SANJAY	26	25	17		19			17	104	69.33
4104	BANDI HARSHAD ISHWAR	19	18	14	13				14	78	52.00
4105	BHAMARE YASH KAMALAKAR	25	24	2	4				2	57	38.00
4106	BHAMRE UTKARSH SACHIN	26	23	17	18				19	103	68.67
4107	BHOR NIRANJAN SUBHASH	26	24	14		13			19	96	64.00
4108	BHORE PRADIP SHIVAJI	25	23	14	12				15	89	59.33
4109	BHOSALE ADESH UMESH	26	24	12		17			17	96	64.00
4110	BONDAR ABHIJEET TATYARAO	27	25	21		18			2	93	62.00
4111	CHAVAN SAHIL SHRIRANG	27	28	2		17			19	93	62.00
4112	CHAWALE SANGAMESHWAR CHANDRAKANT	AB	AB	7		AB			1	8	5.33
4113	CHIGALE CHANDRAKANT HAIBATI	27	17	13		AB				57	38.00
4114	DANANE NINAD NITIN	25	3	17		19			16	80	53.33
4115	DESHPANDE ANIKET ATUL	25	23	12		15				75	50.00
4116	DHOBLE PRATIMESH RAJU	24	23	19		2			15	83	55.33
4117	DHUMAL DIGVIJAY SUNIL	27	25	2		2			2	58	38.67
4118	GAWANDE ADVAIT MANOJ	28	27	18	22				18	113	75.33
4119	GIRBNWAD PRASAD MADHAV	26	27	17		18			2	90	60.00
4120	GOLAMBADE YOGESH PRAKASH	27	25	21		18			18	109	72.67
4121	GUNJAL ANIKET SHANKAR	26	25	13	12				15	91	60.67
4122	INGALE RAHUL PANDURANG	22	24	21		17			17	101	67.33
4123	JADHAV TEJAS DIGAMBAR	27	26	18		16			2	89	59.33
4124	JADHAV YASH PRASHANT	24	26	21		19			17	107	71.33
4125	JAGTAP KUNAL KALYAN	26	26	19					18	89	59.33
4126	KHUNKAR VIKRANT PRAMOD	18	28	19		1			2	68	45.33
4127	KODOLI VINAY CHANDRAKANT	26	25	2	12				19	84	56.00
4128	MALBHARE KIRAN SARJERAO	26	24	21					18	89	59.33
4129	PAROLE ABHISHEK SUSHIL	21	24	12	4				13	74	49.33
4130	PANGE ATHARVA PRADIP	22	23	18		19				82	54.67
4131	PATIL RUSHIKESH DHANAJI	26	25	19		19	16		17	83	55.33
4132	PERE DINESH BABANRAO	25	27	14					17	63	42.00
4133	PHADKARI RUSHIKESH SATISHAPPA	25	AB	6		15				53	35.33
4134	SANAP SIDDESH PANKAJ	22	AB	14		17				97	64.67
4135	SANGALE ROHAN DATTATRAY	18	27	18		19			15	93	62.00
4136	SHAIKH AMAN AYUB	21	24	19		14			15	0	0.00
4137	TAMMALWAR ADITYA SOMNATH	AB	AB	AB						59	39.33
4138	RANPISE PRASAD YUVRAJ	26	22	11						103	68.67
4139	RATHOD SAKRU SUBHASH	27	23	18		18			17	90	60.00
4140	RAUT MANAS NILAM	27	23	19		2			19	88	58.67
4141	SHINDE RAVINDRA SITARAM	26	23	16		19			4	107	71.33
4142	SALVE AVINASH PANDIT	26	24	19		19			19	89	59.33
4143	SANDHU GAGANDEEP SINGH	26	27	2		17			17	90	60.00
4144	SAWANT MAYAWATI BHAGVAN	25	26	19		18			2	104	69.33
4145	SHEJUL SWAPNIL SUBHASHRAO	26	23	19		17			19	106	70.67
4146	SHEKOKAR GANESH SUNIL	25	24	18		17			22	84	56.00
4147	SHELKE AKSHAY VIKRAM	25	24	18		2			15	108	72.00
4148	KADAM SHUBHAM DIPAKRAO	26	29	16		18			19	73	48.67
4149	TUPE SWARAJ SHIRISH	24	26	21		2				105	70.00
4150	THORAT SIDDHESH HARISH	27	27	16		17			18	75	50.00
4151	TURAMBEKAR OMKAR KUNDLIK	26	25	22		2				84	56.00
4152	VAJALE HARSHAL BANDU	8	25	18		19			14	85	56.67
4153	WAGH GAURAV MAHENDRA	26	22	2		17			18	0	0.00
4154	WAGHMODE ADITYA SHITAL	AB	AB	AB						103	68.67
4155	KALE RUSHIKESH RAJENDRA	24	23	21		19			16	92	61.33
4156	LANDAGE MISABA ZAKIRHUSEN	26	25	2		18	21			44	29.33
4157	TAYDE AKSHAY SANTOSH	17	16	AB					11	112	74.67
4158	PATIL AAKASH BAJIRAO	27	29	21	4	12			19	66	44.00
4159	PATIL NIRAJ SANJAY	18	28	6	11				3	106	70.67
4160	ASHTEKAR VRUSHALI DINESH	27	24	19		18			18	108	72.00
4161	DESHMUKH RADHIKA PRADIPRAO	26	24	22		19			17	0	0.00
4162	BAGAL VEDANT VIVEKRAO	AB	AB	AB						0	0.00
4163	DHAVALE KADAMBARI MAHENDRA	AB	AB	AB						105	70.00
4164	JOSHI YASH VIJAY	26	23	19		19			18	94	62.67
4165	GITE MANGESH SUBHASH	24	25	2	25				18	85	56.67
4166	BARGAJE MAHESH MADHUKAR	26	26	19		AB			14	90	60.00
4167	SID SHWETA CHANDRAKANT	27	24	19		2			18	80	53.33
4168	GAWALI SUYOG ASHOK	2	22	21		18			17	112	74.67
4169	KENE HARSH DILIP	28	25	18	24				17	117	78.00
4170	MULE KIRAN INDRAJIT	24	25	22	24				22	95	63.33
4171	THORAT ABHISHEK MANOHARRAO	24	25	16		15			15	97	64.67
4172	JAGTAP RUSHIKESH VIJAY	22	22	17		19			17	91	60.67
4173	GODSE DEEPAK HEMANT	25	24	2		19			21	83	55.33
4174	PATIL NAGESH PRAKASH	24	25	19		15					
	Total No Stud	74	74	74	13	56	2		60		
	Absent Stud	5	7	5		3		NA	0		
	Appeared	69	67	69	13	53	2	NA	60		
	Failed	1	0	3	2	4		NA	7		
	passed	68	67	66	11	49	2	NA	53		
	% result	98.50%	100.00%	96%	84.62%	92.45%	1	NA	88.33%		
	SUBJECT INCHARGE →	SST	SMS	NUA	SCB	PAP	LNM	NA	ALD		

JSPM's

JAYAWANTRAO SAWANT COLLEGE OF ENGINEERING, HADAPSAR (PUNE-28)

Academic Year 2021-22 (Semester-I)

Date: 16/11/2021

Department of mechanical Engineering

NOTICE Regarding End Term Test

All the students are hereby informed to note that, **BE End Term Test** is scheduled from 29 th November 2021 for A.Y.2021-22 (Sem-I). Note following points strictly.

1. Number of Unit for Test : 03 (Unit no 4 to Unit no. 6)
2. Maximum Marks : 30
3. Time Duration: 0 1.30 Hrs
4. Upload file on Moodle on the given tab in the **pdf format.**
5. File size should not be more than **2 MB**

Time: 2.00pm to 3.30pm

TIME-TABLE [BE]

Sr. No.	Date	Day	BE	Mech
1.	29-10-2021	Monday	H & P	02:00 to 03:30
2.	30-10-2021	Tuesday	CAD CAM	02:00 to 03:30
3.	01-11-2021	Wednesday	DOM	02:00 to 03:30
4.	02-11-2021	Thursday	ELECTIVE I	02:00 to 03:30
5.	03-11-2021	Friday	ELECTIVE II	02:00 to 03:30

Aditya Bawane
Exam Co-coordinator

Pradnya Kosbe
Exam Coordinator

Dr. Pradeep Patil
HOD MECH

JSPM's – JSCOE -MECH

Academic Year 2021- 22 / Sem I

EndSem Exam

Marksheet

Div: SE A

Roll No.	Name of Students	SM	SMD	ET	EMM	EEE	TOTAL	PERCENTAGE
2101	ATOLE SUHAS ABA	49	35	44	33	39	200	66.67
2102	BAVISKAR SHYAM DHANRAJ	AB	32	45	28	30	135	45.00
2103	BHONGARE SANKET RAMESHWAR	30	36	38	38	40	182	60.67
2104	BHOSALE SHRADDHA SUDHIR	59	48	51	5	39	202	67.33
2105	BILAGI CHAITRA SHEKHAR	19	34	45	37	39	174	58.00
2106	BORSE ADITYA YOGESH	8	29	25	36	37	135	45.00
2107	CHAND YASH SHANKAR	41	34	39	36	32	182	60.67
2108	CHAVAN OMKAR KASHINATH	34	38	42	8	39	161	53.67
2109	CHVAN PAVAN SUNIL	AB	AB	AB	AB	41	41	13.67
2110	DEOKATE RUSHIKESH JAGANNATH	AB	AB	AB	AB	29	29	9.67
2111	DESHMUKH TANUSH SANJAY	AB	32	39	37	39	147	49.00
2112	DESHPANDE TUSHAR YOGESH	38	29	38	23	40	168	56.00
2113	DHAMANKAR PRATIK SURESH	AB	AB	AB	AB	29	29	9.67
2114	DIVEKAR SAURAV DATTATRAY	39	36	37	34	39	185	61.67
2115	DORAGE SAURABH MADHUSUDAN	40	30	37	35	39	181	60.33
2116	GAIKWAD ARJUN GOPAL	42	40	56	46	44	228	76.00
2117	GAIKWAD MAYUR SANTOSH	39	32	39	38	38	186	62.00
2118	GAWALI NARHARI PRALHAD	46	46	42	32	39	205	68.33
2119	HAJARE ABHISHEK RAMDAS	8	26	39	37	42	152	50.67
2120	JARE AKSHAY SUBHASH	48	36	44	39	43	210	70.00
2121	KACHARE ONKAR PRAVIN	39	42	49	38	41	209	69.67
	KADAM DISHANT DIPAK	AB	AB	AB	AB	AB	0	0.00
2123	KADAM SHRUTIKA VIJAY	41	39	42	41	42	205	68.33
2124	KAMBLE SAHIL SUHAS	7	35	41	22	40	145	48.33
2125	KATWATE SARTHAK MAHESH	56	49	53	42	44	244	81.33
2126	KHATATE KARAN UTTAM	42	36	38	37	39	192	64.00
2127	KULKARNI ANUP VINAYAK	60	53	55	44	43	255	85.00
2128	KULKARNI YADNIK AMOL	16	26	39	21	39	141	47.00
2129	LAWATE UMESH SUBHASH	37	30	3	28	42	140	46.67
2130	LOHAR SACHIN VITTHAL	46	42	51	36	41	216	72.00
2131	LONDHE SAGAR DATTATRAY	0	24	35	26	38	123	41.00
2132	MEHER PRUTHVIRAJ NAVNATH	47	35	55	41	40	218	72.67
2133	MENASE VISHAL YALLAPPA	30	32	37	24	37	160	53.33
2134	NIVALIKAR PRAMOD ASHOK	45	36	33	39	40	193	64.33
2135	PATEL BASHIR APPA	21	28	35	2	39	125	41.67
2136	PATLE VIKAS GULAB	36	24	4	42	41	147	49.00
2137	RAJMANE VISHAL DHANRAJ	44	42	38	45	38	207	69.00
2138	RAJPUT ABHISHEK	51	38	43	34	38	204	68.00
2139	RAJPUT SUBODH SUVARNSING	49	41	42	35	40	207	69.00
2140	RAUT HARSHAD SANTOSH	24	34	42	3	42	145	48.33
	SALUMBER AZIZ MOHAMMED	AB	AB	AB	AB	0	0	0.00
2142	SALVI SHUBHADA VINAYAK	39	38	44	37	42	200	66.67
2143	SAQIB SHAFI SHAIKH	AB		39	31	39	109	36.33
2144	SHAIKH SAHIL KALIM	AB	AB	AB	AB	30	30	10.00
2145	SHARMA ABHAY GAJRAJ	1	24	31	22	38	116	38.67
	SINGH KHUSHNANDAN MUNNA	AB	AB	AB	AB	AB	0	0.00
2147	SONAWANE HRISHIKESH KISHOR	41	35	42	37	40	195	65.00
2148	SUPEKAR RUSHIKESH SANJAY	30	40	51	35	40	196	65.33
2149	TEKALE RUSHIKESH RADHAKISAN	40	38	43	39	40	200	66.67

2150	TUSHAR CHANDRA MANI TIWARI	44	45	42	31	33	195	65.00
	WITKAR SWASTIK HEMANT	AB	AB	AB	AB	AB	0	0.00
2152	YADAV KULDEEP RAMSUKH	36	37	43	42	31	189	63.00
2153	KORDE KARTIK VASUDEV	34	42	38	27	28	169	56.33
SE AB PROVISIONAL ADMISSION	DHEMARE YASHRAJ	AB	AB	AB	AB	AB	0	0.00

Total No Stud	53	52	53	53	53
Absent Stud	12	9	9	9	4
Appeared	41	43	44	44	49
Failed	8	0	2	8	1
passed	33	43	42	36	48
% result	80.49	100.00	95.45	81.82	97.96
SUBJECT INCHARGE →	APR	MVH	ASB	SBP	SVG

JSPM's Jayawantrao Sawant College of Engineering Hadapsar, Pune

Department Of Mechanical Engineering

END TERM

[BE MECH], SEM II (AY: 2021-22)

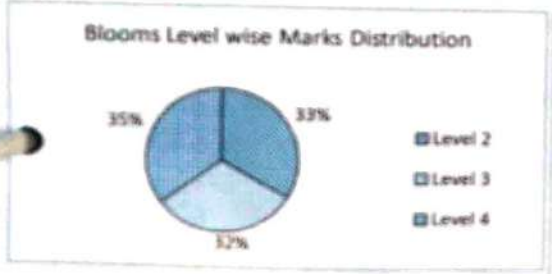
Sub: Industrial Engineering (Elective-III)

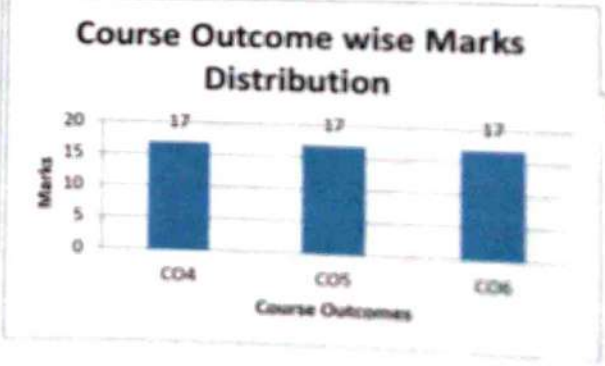
Date: 15/04/2020 **[Duration: 2 hours]**

Time: 09.00 AM-11:000 AM **Maximum Marks: 50**

Answer all questions

Q. No.	Question Description	Marks	Attainment of			
			CO	PO	PSO	BL
1 a)	State And Explain Various Function Involved In Production Planning And Control	8	4	1	2	3
1 b)	A manufacturing Company requires 9500 unit/yr. Ordering cost is Rs.125/- per order and Carrying cost is 20%. Purchasing price per unit is Rs. 45/- Determine i) EOQ ii) Optimum number of orders iii) Total cost including acquisition of material.	9	4	1,3	2	4
2 a)	Define Plant Layout? What Factors Involved in Selection of Good plant Layout?	9	5	1	2	2
2 b)	List the Material Handling Equipment used in Industry	8	5	1	2	2
3 a)	What is Importance of Standard Costing? Explain Method to Calculate Standard Cost of Product?	8	6	1	2	3
3 b)	A company has given following information: Sales (Rs.1,50,000/-), Variable Overheads (Rs. 1,20,000/-), Gross Profit (Rs. 60,000/-), Fixed overheads (Rs. 20,000/-), Net Profit (Rs. 40,000/-). Detremine: i) P/V Ration, ii) BEP, iii) Net profit when sales are Rs. 4,00,000/-	9	6	1	2	4





Subject In-charge Module coordinator Program coordinator HOD

JAYAWANT SHIKSHAN PRASARAK MANDAL's
Jayawantrao Sawant College of Engineering
(Approved by AICTE, New Delhi, Govt of Maharashtra and Affiliated to University of Pune)
Id.No. : PU/PN/Engg./199/(2004)
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Ph. :8484897374 Telefax : 020-26970880
Email : principal@jspmjscoe.edu.in
Website : www.jspmjscoe.edu.in

Prof.Dr.T.J.Sawant
D.E.E., B.E.(Electrical), MISTE,Ph.D
FOUNDER SECRETARY

Dr. Rajendra D. Kanphade
M.E. Ph.D. (Electonics Engg.)
LMISTE, FIETE, SMIEEE
Principal

Date: - 03/06/2022

To,
The Principal,
JSCOE, Hadapsar.
Pune- 411028

Subject: - Formation of Programme Assessment Committee (PAC) in Mechanical Engineering Department.

Respected Sir,

With reference to the previous formation meeting of PAC held on 07/06/2022, PAC committee are subjected to following roles and regulations to regulate the academic and departmental activity

1. Evaluates and monitors the attainment of POs / PSOs
2. Proposes necessary changes for continuous improvements.
3. Preparation of periodic reports on programme related activities, status reports for management and key stakeholders.
4. Faculty motivation: Attend / organize workshop / seminar / FDP, paper publication, development of models / lab.
5. Student motivation: Attend/participate tech competitions, paper presentation, mini projects/models, social / cultural events, skill development programs.
6. Conduct surveys, interaction with faculty, coordinators and other stakeholders
7. Planning of co-curricular activities for attainment of POs / PSOs.
8. Project policy
9. PBL, Mini project policy.

Following are the members of PAC till further notice:

SR. No.	Name of the member	Designation	Sign
1	Dr. Prakash Kadam	Chairman, PAC - Progrmme Coordinator / (NBA Coordinator)	
2	Dr. Prakash Kadam	Member- AMC (DAC)	
3	Prof. Manisha Nalawade	Member - Module Coordinator - Allied Engineering	
4	Dr. Nilesh Alone	Member - Module Coordinator - Design	
5	Dr. Prakash Kadam	Member - Module Coordinator - Manufacturing	
6	Prof. Laxman Mane	Member - Module Coordinator - Fluid & Thermal	
7	Dr. Prakash Kadam	Member- AMC (DAC)	
8	Dr. Prakash Kadam	Member- IQAC Dept member	

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FOUNDER SECRETARY

Dr. Rajendra D. Kanphade
M.E. Ph.D. (Electronics Engg.)
LMISTE, FIETE, SMIEEE
Principal

Meeting of Program Assessment Committee

Date: 25.06.2021

Time: 03:30 pm

Venue: C-109

Minutes of meeting:

1. Introduction of MOODLE software tool as new modified LMS for e-resource.
2. Course completion of respective faculty on MOODLE tool.
3. Course updating through MOODLE.
4. CEP conduction through MOODLE
5. Discussion on teaching method innovation mention in MOODLE learning tool
6. Introduce new gap analysis, techniques in teaching learning process w.r.t during CEP.
7. Detailed discussion on erratic results of any course by checking OBE process. Checking of weakly attained course. Analysis of top three and last three attained values.
8. Introduction of MOODLE software and its benefits to students. Utilization of MOODLE tools for framing new student activities along with rubrics.
9. Review taken to continue the assessment process.
10. HoD discussed the modifications in instructional manual and same informed to overall in charge of lab.
11. Prepare Project, PBL Mini-project policy as per 2019 pattern also prepare rubrics & attainment.
12. Prepare Internship sop.

Action taken

Sr. No.	Description of work	Responsible person	Target date to complete
1	Teaching method innovation	All Module Coordinators/ Subject Coordinators	As per schedule before start of semester
2	new gap analysis, techniques	All Module Coordinators/ Subject Teachers	As per schedule before start of semester

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M.E. Ph.D. (Electonics Engg.)
LMISTE, FIETE, SMIEEE
Principal

Attendees:

Sr. No.	Name of Member	Subject / Coordinator	Sign
01	Dr. P. G. Kadam	Chairman PAC	
02	Dr. P. G. Kadam	AMC Coordinator	
03	Prof. Nilesh Alone	Module Coordinator - Design	
04	Prof. Laxman Mane	Module Coordinator – Fluid & Thermal Engineering.	
05	Dr. P.G.Kadam	Module Coordinator - Manufacturing	
06	Prof. Manisha Nalawade	Module Coordinator - Allied Engineering.	
07	Prof. Pradnya Kosbe	Faculty Representative – Internal Examination	
08	Prof. Rakesh Sidheshwar	MESA Faculty Advisor	R.K.S.
09	Prof. Shekhar Gulwade	Department Training & Placement	
10	Prof. Mahesh Gaikwad	Project Coordinator	
11	Prof. Manisha Nalawade	Alumni Coordinator	
12	Dr. Abhijeet Dandawate	III Cell Co-ordinator, VLCI Club	A.B.D
13	Prof. Aditya Bawane	ISHRAE Faculty Advisor	AD
14	Prof. Chitaranjan Mane	Auto Club - Faculty Advisor, E-newsletter coordinator	CMane
15	Prof. Mahesh Shinde	Industrial Visit Co-ordinator	
16	Prof. Sandeep Patil	PBL co-ordinator, Mini Project	S.B.Patil
17	Prof. Fayaz Kharadi	Overall Lab Mainenance Co-ordinator	F.Y.K.
18	Prof. Siddesh Bandekar	T & P Joint Department Co-ordinator, Internship	
19	Prof. Nilesh Alone	ME Design Coordinator	
20	Prof. Aditya Bawane	Guest Lecture coordinator	AD
21	Prof. Shivanand Talwar	Internship Co-ordinator,	SST

Dr. P. G. Kadam
Program Coordinator

Dr. P A Patil
Head of Department

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LMISTE, FIETE, SMIEEE
Principal

Date: 21.06.2021

Departmental Circular:

All PAC members are hereby informed to attend the meeting on 25/06/2021 in room no C-109 at 3.30 pm.

The agenda of meeting is as follows:

1. Discussion on Innovative Teaching Methods
2. Introduce new gap analysis.
3. Discussion regarding Results of assessment of OBE.
4. Discussion regarding Conduct of Student Activities, Rubrics for Student Activities and Lab Work.
5. Discussion regarding whether it is required to Alter the Target and Threshold values for next Academic Year.
6. Modification of Instructional Lab Manual.
7. Project, mini-project, PBL & Internship.

All are informed to attend the said meeting at 3.30 pm.

Dr. Pradeep Patil

HOD [Mech]

JSPM'S SPPU Pune Id. No. PU/PN/ENGG/199/(2004) Jayawantrao Sawant College of Engineering

Principal
JSPM'S Jayawantrao Sawant
College of Engineering,
Hadapsar, Pune - 28