



I Sem M.Tech. (Production Management)

Curriculum Content

Course Code: **17EPMW701**

Course Title: **Mini Project I**

L-T-P: **0-0-3**

Credit: **1**

Contact Hrs: **6hrs/week**

CIE Marks: **80**

SEE Marks: **20**

Total Marks: **100**

Practical Hrs: **72 hrs**

Mini Project I: The Guide shall define the problem statement for the Project work. The student shall execute the Project within during the 1st semester. The student who has opted Mini Project I shall opt Manufacturing theme to carry out their work.



II Sem M.Tech. (Production Management)

Curriculum Content

Course Code: **17EPMW702**

Course Title: **Mini Project II**

L-T-P: **0-0-3**

Credit: **1**

Contact Hrs: **6hrs/week**

CIE Marks: **80**

SEE Marks: **20**

Total Marks: **100**

Practical Hrs: **72 hrs**

Mini Project II: The Guide shall define the problem statement for the Project work. The student shall execute the Project within during the 2nd semester. The student who has opted Mini Project II shall opt automation theme to carry out their work.

Course Feedback (2017-18 (odd))

(To be filled by each Student at the time of Course Completion)

Dear Students,

Please give us your views on this Course so that the course quality can be improved. You are encouraged to be frank and constructive in your comments.

Course Teacher

Department/School PM-SME Name of the Teacher Vinayak. Kulkarni
13EPMW701
Course Title Mini Project I Course code: _____ Semester I

a. The design of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The course objectives were clear		<input checked="" type="checkbox"/>			
The course contents met with your expectation		<input checked="" type="checkbox"/>			
The course work load was manageable				<input checked="" type="checkbox"/>	
The lecture sequence was well planned to meet learning outcomes		<input checked="" type="checkbox"/>			
The contents were illustrated with adequate examples		<input checked="" type="checkbox"/>			
The course exposed you to new knowledge and practice			<input checked="" type="checkbox"/>		
The level of the course was moderate				<input checked="" type="checkbox"/>	

b. The conduct of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The lectures were easy to understand & ideas and concepts presented clearly	<input checked="" type="checkbox"/>				
The teaching aids were effectively used		<input checked="" type="checkbox"/>			
The course material handed out was adequate		<input checked="" type="checkbox"/>			
Were objectives of the course realized?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
The overall environment in the class was conducive to learning					

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful		<input checked="" type="checkbox"/>			
Recommended reading Books etc. were relevant and appropriate		<input checked="" type="checkbox"/>			
The provision of learning resources in the library was adequate and appropriate		<input checked="" type="checkbox"/>			

d. Assessment	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The method of assessment were reasonable		<input checked="" type="checkbox"/>			
Feedback on ISA assessment was timely		<input checked="" type="checkbox"/>			
Feedback on ISA assessment was helpful		<input checked="" type="checkbox"/>			

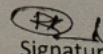
Suggestions for improvement:

Less time for project due to more number of labs

Overall rating of the course: (Tick mark the appropriate)

90% - 100% 90% 70% - 80% 70% 50% - below 50%

Date: 26/01/2018


Signature



Course Feedback 2017-18 (odd)

(To be filled by each Student at the time of Course Completion)

Dear Students,

Please give us your views on this Course so that the course quality can be improved. You are encouraged to be frank and constructive in your comments.

Course Teacher

Department/School PM-SME Name of the Teacher Vinayak Kulkarni
Course Title mini project I Course code: 17EPMW701 Semester I

a. The design of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The course objectives were clear		✓			
The course contents met with your expectation		✓			
The course work load was manageable			✓		
The lecture sequence was well planned to meet learning outcomes		✓			
The contents were illustrated with adequate examples	✓				
The course exposed you to new knowledge and practice		✓			
The level of the course was moderate		✓			

b. The conduct of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The lectures were easy to understand & ideas and concepts presented clearly		✓			
The teaching aids were effectively used	✓				
The course material handed out was adequate		✓			
Were objectives of the course realized?	✓				
The overall environment in the class was conducive to learning		✓			

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful		✓			
Recommended reading Books etc. were relevant and appropriate		✓			
The provision of learning resources in the library was adequate and appropriate			✓		

d. Assessment	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The method of assessment were reasonable		✓			
Feedback on ISA assessment was timely		✓			
Feedback on ISA assessment was helpful		✓			

Suggestions for improvement:

Workload was difficult to manage

Overall rating of the course: (✓ tick mark the appropriate)

90% - 100% 90% - 70% - 80% 70% - 50% below 50%

Date: 26/01/2018

Signature

Course Feedback (2017-18 Oct)

(To be filled by each Student at the time of Course Completion)

Dear Students,

Please give us your views on this Course so that the course quality can be improved. You are encouraged to be frank and constructive in your comments.

Course Teacher

Department/School P.M - SME Name of the Teacher Vinayak Kulkarni
17 EPMW701
Course Title Mini project - I Course code: _____ Semester I

a. The design of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The course objectives were clear		✓			
The course contents met with your expectation		✓			
The course work load was manageable			✓		
The lecture sequence was well planned to meet learning outcomes			✓		
The contents were illustrated with adequate examples		✓	✓		
The course exposed you to new knowledge and practice		✓			
The level of the course was moderate		✓			

b. The conduct of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The lectures were easy to understand & ideas and concepts presented clearly		✓	✓		
The teaching aids were effectively used		✓			
The course material handed out was adequate		✓	✓		
Were objectives of the course realized?		✓	✓		
The overall environment in the class was conducive to learning		✓			

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful		✓			
Recommended reading Books etc. were relevant and appropriate		✓			
The provision of learning resources in the library was adequate and appropriate		✓			

d. Assessment	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The method of assessment were reasonable		✓			
Feedback on ISA assessment was timely		✓			
Feedback on ISA assessment was helpful		✓			

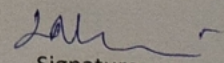
Suggestions for improvement:

No comments

Overall rating of the course: (tick mark the appropriate)

90% - 100% 90% 70% - 80% 70% 50% - below 50%

Date: 26/1/2019


Signature

Course Feedback 2017-18 (odd)

(To be filled by each Student at the time of Course Completion)

Dear Students,

Please give us your views on this Course so that the course quality can be improved. You are encouraged to be frank and constructive in your comments.

Course Teacher

Department/School PM-SME Name of the Teacher Vinayak Kulkarni
17EPMW701
Course Title Mini project I Course code: _____ Semester I

a. The design of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The course objectives were clear		✓			
The course contents met with your expectation		✓			
The course work load was manageable		✓			
The lecture sequence was well planned to meet learning outcomes			✓		
The contents were illustrated with adequate examples	✓				
The course exposed you to new knowledge and practice		✓			
The level of the course was moderate		✓			

b. The conduct of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The lectures were easy to understand & ideas and concepts presented clearly		✓			
The teaching aids were effectively used	✓				
The course material handed out was adequate			✓		
Were objectives of the course realized?		✓			
The overall environment in the class was conducive to learning		✓			

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful	✓				
Recommended reading Books etc. were relevant and appropriate		✓			
The provision of learning resources in the library was adequate and appropriate		✓			

d. Assessment	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The method of assessment were reasonable		✓			
Feedback on ISA assessment was timely		✓			
Feedback on ISA assessment was helpful		✓			

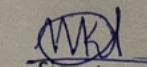
Suggestions for improvement:

Time management was difficult

Overall rating of the course: (✓ tick mark the appropriate)

90% - 100% 90% 70% - 80% 70% 50% - Below 50%

Date: 25/1/2018


Signature

Course Feedback 2017-18 (Even)

(To be filled by each Student at the time of Course Completion)

Dear Students,

Please give us your views on this Course so that the course quality can be improved. You are encouraged to be frank and constructive in your comments.

Course Teacher

Department/School PM-SME Name of the Teacher Vinayak Kulkarni
 Course Title Mini Project II Course code: DEPMW702 Semester II

a. The design of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The course objectives were clear		<input checked="" type="checkbox"/>			
The course contents met with your expectation		<input checked="" type="checkbox"/>			
The course work load was manageable			<input checked="" type="checkbox"/>		
The lecture sequence was well planned to meet learning outcomes		<input checked="" type="checkbox"/>			
The contents were illustrated with adequate examples		<input checked="" type="checkbox"/>			
The course exposed you to new knowledge and practice		<input checked="" type="checkbox"/>			
The level of the course was moderate			<input checked="" type="checkbox"/>		

b. The conduct of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The lectures were easy to understand & ideas and concepts presented clearly	<input checked="" type="checkbox"/>				
The teaching aids were effectively used		<input checked="" type="checkbox"/>			
The course material handed out was adequate		<input checked="" type="checkbox"/>			
Were objectives of the course realized?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
The overall environment in the class was conducive to learning		<input checked="" type="checkbox"/>			

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful		<input checked="" type="checkbox"/>			
Recommended reading Books etc. were relevant and appropriate		<input checked="" type="checkbox"/>			
The provision of learning resources in the library was adequate and appropriate		<input checked="" type="checkbox"/>			

d. Assessment	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The method of assessment were reasonable		<input checked="" type="checkbox"/>			
Feedback on ISA assessment was timely		<input checked="" type="checkbox"/>			
Feedback on ISA assessment was helpful		<input checked="" type="checkbox"/>			

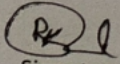
Suggestions for improvement:

Mini Project II was better than mini project I.

Overall rating of the course: (✓ tick mark the appropriate)

90% - 100% 90% - 70% 70% - 50% below 50%

Date: 4/6/2018


 Signature

Course Feedback 2017-18 (Even)

(To be filled by each Student at the time of Course Completion)

Dear Students,

Please give us your views on this Course so that the course quality can be improved. You are encouraged to be frank and constructive in your comments.

Course Teacher

Department/School PM-SmE Name of the Teacher Vinayak Kulkarni
17EPMW709
 Course Title mini project II Course code: _____ Semester II

a. The design of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The course objectives were clear		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
The course contents met with your expectation			<input checked="" type="checkbox"/>		
The course work load was manageable		<input checked="" type="checkbox"/>			
The lecture sequence was well planned to meet learning outcomes		<input checked="" type="checkbox"/>			
The contents were illustrated with adequate examples		<input checked="" type="checkbox"/>			
The course exposed you to new knowledge and practice		<input checked="" type="checkbox"/>			
The level of the course was moderate		<input checked="" type="checkbox"/>			

b. The conduct of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The lectures were easy to understand & ideas and concepts presented clearly		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
The teaching aids were effectively used		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
The course material handed out was adequate		<input checked="" type="checkbox"/>			
Were objectives of the course realized?		<input checked="" type="checkbox"/>			
The overall environment in the class was conducive to learning		<input checked="" type="checkbox"/>			

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Recommended reading Books etc. were relevant and appropriate			<input checked="" type="checkbox"/>		
The provision of learning resources in the library was adequate and appropriate					


d. Assessment	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The method of assessment were reasonable		<input checked="" type="checkbox"/>			
Feedback on ISA assessment was timely		<input checked="" type="checkbox"/>			
Feedback on ISA assessment was helpful		<input checked="" type="checkbox"/>			

Suggestions for improvement:

Kindly keep any one project. Either manufacturing theme or Automation theme.

Overall rating of the course: (tick mark the appropriate)

90% - 100% 90% 70% - 80% 70% 50% - below 50%


 Signature

Date: 06/06/2018

Course Feedback 2017-18 (Even)
 (To be filled by each Student at the time of Course Completion)

Dear Students,

Please give us your views on this Course so that the course quality can be improved. You are encouraged to be frank and constructive in your comments.

Course Teacher

Department/School PM-SME Name of the Teacher Vinayak Kulkarni
 Course Title mini project II Course code: 7EMW702 Semester II

a. The design of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The course objectives were clear	<input checked="" type="checkbox"/>				
The course contents met with your expectation	<input checked="" type="checkbox"/>				
The course work load was manageable			<input checked="" type="checkbox"/>		
The lecture sequence was well planned to meet learning outcomes		<input checked="" type="checkbox"/>			
The contents were illustrated with adequate examples		<input checked="" type="checkbox"/>			
The course exposed you to new knowledge and practice		<input checked="" type="checkbox"/>			
The level of the course was moderate		<input checked="" type="checkbox"/>			

b. The conduct of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The lectures were easy to understand & ideas and concepts presented clearly		<input checked="" type="checkbox"/>			
The teaching aids were effectively used		<input checked="" type="checkbox"/>			
The course material handed out was adequate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Were objectives of the course realized?	<input checked="" type="checkbox"/>				
The overall environment in the class was conducive to learning	<input checked="" type="checkbox"/>				

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful		<input checked="" type="checkbox"/>			
Recommended reading Books etc. were relevant and appropriate		<input checked="" type="checkbox"/>			
The provision of learning resources in the library was adequate and appropriate		<input checked="" type="checkbox"/>			

d. Assessment	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The method of assessment were reasonable		<input checked="" type="checkbox"/>			
Feedback on ISA assessment was timely		<input checked="" type="checkbox"/>			
Feedback on ISA assessment was helpful		<input checked="" type="checkbox"/>			

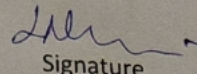
Suggestions for improvement:

Ok, Not bad

Overall rating of the course: (tick mark the appropriate)

90% - 100% 90% 70% - 80% 70% 50% - below 50%

Date: 4/6/2018


 Signature

Course Feedback 2017-18 (even)
(To be filled by each Student at the time of Course Completion)

Dear Students,

Please give us your views on this Course so that the course quality can be improved. You are encouraged to be frank and constructive in your comments.

Course Teacher

Department/School PM-SME Name of the Teacher Vinayak Kulkarni
Course Title Mini-Project II Course code: 17EPMW702 Semester II

a. The design of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The course objectives were clear	<input checked="" type="checkbox"/>				
The course contents met with your expectation		<input checked="" type="checkbox"/>			
The course work load was manageable		<input checked="" type="checkbox"/>			
The lecture sequence was well planned to meet learning outcomes		<input checked="" type="checkbox"/>			
The contents were illustrated with adequate examples			<input checked="" type="checkbox"/>		
The course exposed you to new knowledge and practice		<input checked="" type="checkbox"/>			
The level of the course was moderate		<input checked="" type="checkbox"/>			

b. The conduct of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The lectures were easy to understand & ideas and concepts presented clearly		<input checked="" type="checkbox"/>			
The teaching aids were effectively used		<input checked="" type="checkbox"/>			
The course material handed out was adequate			<input checked="" type="checkbox"/>		
Were objectives of the course realized?			<input checked="" type="checkbox"/>		
The overall environment in the class was conducive to learning		<input checked="" type="checkbox"/>			

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful	<input checked="" type="checkbox"/>				
Recommended reading Books etc. were relevant and appropriate		<input checked="" type="checkbox"/>			
The provision of learning resources in the library was adequate and appropriate		<input checked="" type="checkbox"/>			

d. Assessment	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The method of assessment were reasonable	<input checked="" type="checkbox"/>				
Feedback on ISA assessment was timely		<input checked="" type="checkbox"/>			
Feedback on ISA assessment was helpful		<input checked="" type="checkbox"/>			

Suggestions for improvement:

Heavy work less time.

Overall rating of the course: (tick mark the appropriate)

90% -100% 90%70% - 80% 70%50% - Below 50%

Date: 04/10/2018


Signature



Dear proud alumni,

The following are the list of skills and competencies that engineering (Production Management) post graduates should have. We seek your participation in the Alumni Survey conducted to know your satisfaction with the *level of competency* you have achieved as a result of your education at the Institution and also able to practice the same. For each question, indicate your opinion with a tick mark (✓) in the appropriate column. All individual responses will be kept confidential. Only statistically analyzed results from the entire population will be shared.

Regards,

Head, School of Mechanical Engineering

S.No	Competencies	Level of Competency			
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied
1	Research skills :				
	Able to carry out literature survey and identify the gaps in the proposed area			/	
	Formulate the problem statement and research questions that lead to identification of research path			/	
	Develop a solution using appropriate methodology for the identified problem				/
2	Communication:				
	Communicate scholastic thought process through thesis/technical article			/	
	Articulate research finding emphasizing its real time utility to stakeholders			/	
3	Scholarship of knowledge:				
	Apply specialized knowledge to identify issues in the existing system and rectify the same through alternate solutions				/
	Apply domain knowledge to develop a solution for a system of manufacturing/service-oriented organizations			/	
4	Project Management and Finance:				
	Apply technical and managerial skills to plan and analyze the projects				/
	Execute projects considering principles of project management				/



5	Use of Modern tools :				
	Acquire competence in modeling, simulation and analysis of real world problems using modern tools.				/
	Develop customized solutions for existing problem through extensive analysis				/

Indicate your Answer with symbol "✓" in the appropriate box.

1) How would you rate your overall satisfaction with your preparation to become an engineer?

Not Satisfied Little Satisfied Satisfied Very Satisfied

2) In general, the department has provided a _____ quality academic program?

Poor OK Good Very Good

Name: KIRAN KULKARNI	Branch: PM
e-mail id: Kirankulkarni57@gmail.com Mobile: 9535923230	Batch: 2018
Name of the company: DASSAULT SYSTEMS - BANGALORE	
Correspondence Address: OPP KIRLOSKER AIRPORT ROAD HUBBALLI	
Signature: [Signature]	

Dear proud alumni,

The following are the list of skills and competencies that engineering (Production Management) post graduates should have. We seek your participation in the Alumni Survey conducted to know your satisfaction with the *level of competency* you have achieved as a result of your education at the Institution and also able to practice the same. For each question, indicate your opinion with a tick mark (✓) in the appropriate column. All individual responses will be kept confidential. Only statistically analyzed results from the entire population will be shared.

Regards,

Head, School of Mechanical Engineering

S.No	Competencies	Level of Competency			
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied
1	Research skills :				
	Able to carry out literature survey and identify the gaps in the proposed area			✓	
	Formulate the problem statement and research questions that lead to identification of research path			✓	
	Develop a solution using appropriate methodology for the identified problem				✓
2	Communication:				
	Communicate scholastic thought process through thesis/technical article			✓	
	Articulate research finding emphasizing its real time utility to stakeholders			✓	
3	Scholarship of knowledge:				
	Apply specialized knowledge to identify issues in the existing system and rectify the same through alternate solutions				✓
	Apply domain knowledge to develop a solution for a system of manufacturing/service-oriented organizations				✓
4	Project Management and Finance:				
	Apply technical and managerial skills to plan and analyze the projects			✓	
	Execute projects considering principles of project management				✓



5	Use of Modern tools :				
	Acquire competence in modeling, simulation and analysis of real world problems using modern tools.				✓
	Develop customized solutions for existing problem through extensive analysis				✓

Indicate your Answer with symbol "✓" in the appropriate box.

1) How would you rate your overall satisfaction with your preparation to become an engineer?

Not Satisfied Little Satisfied Satisfied Very Satisfied

2) In general, the department has provided a _____ quality academic program?

Poor OK Good Very Good

Name: <i>Faraz Mulla</i>	Branch: <i>Production Mgmt</i>
e-mail id: <i>farazmuers@icmail.com</i> Mobile: <i>8050918382</i>	Batch: <i>2018</i>
Name of the company: <i>Asha Feeds</i>	
Correspondence Address: <i>Mulla Oni old Hubli Hubballi -</i>	
Signature: <i>Fmulla</i>	



Dear Sir,

We seek your kind participation in this process of collecting feedback about our Production Management post graduates serving in your organization. Your inputs will be helping us to make required modifications in the existing curriculum, pedagogy to enhance the competencies of the graduating engineers. For each question, indicate your opinion with a tick mark (✓) in the appropriate column. All individual responses will be kept confidential. Only statistically analyzed results from the entire population will be shared.

Regards,

Head, School of Mechanical Engineering

S.No	Competencies	Level of Competency			
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied
1	Research skills :				
	Able to carry out literature survey and identify the gaps in the proposed area				✓
	Formulate the problem statement and research questions that lead to identification of research path				✓
	Develop a solution using appropriate methodology for the identified problem			✓	
2	Communication:				
	Communicate scholastic thought process through thesis/technical article				✓
	Articulate research finding emphasizing its real time utility to stakeholders				✓
3	Scholarship of knowledge:				
	Apply specialized knowledge to identify issues in the existing system and rectify the same through alternate solutions				✓
	Apply domain knowledge to develop a solution for a system of manufacturing/service-oriented organizations				✓
4	Project Management and Finance:				
	Apply technical and managerial skills to plan and analyze the projects			✓	
	Execute projects considering principles of project management			✓	



5	Use of Modern tools :				
	Acquire competence in modeling, simulation and analysis of real world problems using modern tools.				
	Develop customized solutions for existing problem through extensive analysis				✓

Space for comments:

ERP modules are rarely understood by students, but guys from BUBCKLE PM branch are extremely well and have great understanding of ERP Systems in general.

Name of the organization: Vedhasoft Technologies

Address: # 4th cross street, 3rd main road
 Horamavu, Bangalore - 560043

Name of the contact person: Babu Karunakaran

Designation: Business Head - Enterprise Soln.

e-mail id: bk@vedhasoft.in

Mobile: 9952946131

Signature:

Dear Sir,

We seek your kind participation in this process of collecting feedback about our Production Management post graduates serving in your organization. Your inputs will be helping us to make required modifications in the existing curriculum, pedagogy to enhance the competencies of the graduating engineers. For each question, indicate your opinion with a tick mark (✓) in the appropriate column. All individual responses will be kept confidential. Only statistically analyzed results from the entire population will be shared.

Regards,

Head, School of Mechanical Engineering

S.No	Competencies	Level of Competency			
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied
1	Research skills :				
	Able to carry out literature survey and identify the gaps in the proposed area			✓	
	Formulate the problem statement and research questions that lead to identification of research path			✓	
	Develop a solution using appropriate methodology for the identified problem			✓	
2	Communication:				
	Communicate scholastic thought process through thesis/technical article			✓	
	Articulate research finding emphasizing its real time utility to stakeholders			✓	
3	Scholarship of knowledge:				
	Apply specialized knowledge to identify issues in the existing system and rectify the same through alternate solutions			✓	
	Apply domain knowledge to develop a solution for a system of manufacturing/service-oriented organizations			✓	
4	Project Management and Finance:				
	Apply technical and managerial skills to plan and analyze the projects				✓
	Execute projects considering principles of project management				✓



5	Use of Modern tools :			
	Acquire competence in modeling, simulation and analysis of real world problems using modern tools.			✓
	Develop customized solutions for existing problem through extensive analysis		✓	

Space for comments: *PLM understanding in functional area is very good. Performance is satisfactory.*

Name of the organization: *Dassault Systems PUNE*
 Address: *Hinjewadi*

Name of the contact person: *Ashish Gajanan Kulkarni*
 Designation: *Sr. Project Manager*

e-mail id: *Ashishg.kulkarni@3ds.com* Mobile: *9850996264* Signature: *Ashish Kulkarni*



Curriculum Revision

Course: Mini Project I & II (19EP19W701)
Course Instructor: Vinayak. N. Julkavani

Course(if revised): Mini Project
Code(if revised): 19EP19W701

2017-18		Inputs	2018-19	
Mapping	Attainment		Mapping	Attainment
P02		Faculty Experiences (Course feedbacks/Student interactions/others): ✓	P01	✓
P03		Industry Advises/inputs: ✓	P02	✓
P05		Placement Feedback: Input from placement officer	P03	
		Alumni Feedback: —	P05	✓
		Student Feedback: ✓		
		Other inputs (specify): —		

Innovations/Changes:	BOS approved
a. CO added	<input type="checkbox"/>
b. PO added	<input checked="" type="checkbox"/>
c. Content/topic added/refined	<input type="checkbox"/>
d. Change in Delivery mode	<input type="checkbox"/>
e. Change in Assessment type	<input checked="" type="checkbox"/>
f. Any other, specify	<input checked="" type="checkbox"/>

Faculty Signature

Analysis and Action Taken Report Approved in Board of Studies dated 13-04-2019 and implemented with effect from 2019-2020

Observations/ Analysis based on feedback of Students/Alumni and Employers
<ol style="list-style-type: none"> 1. Time available for carrying out mini project I was less due to more number of labs during 1st semester. Conduct of mini project II during 2nd semester was quite comfortable compared to 1st semester. However, students expressed to keep only one mini project that will motivate and help them to carry out major project during the final year. 2. Although, alumnus were satisfied with the research skills and communication skills gained during the tenure of their PG studies, faculties strongly believe that introducing mini project during 2nd semester will help students to improve their research skills as students can apply the fundamental knowledge gained during 1st semester PG program. 3. Employers are satisfied with the skills of our PG students, especially in using the modern tools like PLM and ERP. If a mini project with a particular theme (PLM/ERP theme) is introduced during the 2nd semester, then it will be helpful for the students to showcase their talents in the usage of modern tools and fetch opportunities to get into internship in reputed organizations/companies.

Observations/ Recommendations based on feedback	POs impacted
Teachers Feedback (Pre-BoS MoM): ✓ It was proposed to offer a Mini Project to facilitate better student employability in BOS meeting.	P01, PO2 and PO5
Actions taken	Course Revised/ Added
As an employment initiative for Production Management PG Program with focus on PLM/ ERP, the Mini Project has been introduced in the Second Semester to facilitate student employability in Manufacturing/Service Industry.	Mini Project (19EPMW701)
	BoS approved Date 13-04-2019

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13-04-2019

Minutes of the BOS Meeting in School of Mechanical Engineering

The meeting of the BOS in Mechanical Engineering was held on 13th April 2019 at 10.00am in the Office of the School Head, Mechanical Engineering, KLE Technological University, Hubballi.

The meeting began with the Chairman welcoming members of the BOS and other invited faculty and student members. The following agenda points were taken up for discussion.

Agenda 1:

Review of actions initiated in the last meeting.

Resolution 1:

The actions initiated in the previous BOS held on 7th April 2018 were reviewed and minutes of the last meeting were confirmed.

The action taken report presented to the board was approved by the members.

The Chairman informed the members about the Industry Advisory Board meeting held on 23rd March 2019 and presented the salient features which would be considered during the meeting.

Agenda 2:

Review of Syllabus of UG program

Resolution 2:

The School Head presented the curriculum changes for UG program.

Board reviewed and appreciated the Program syllabi for its flexibility with respect to student learning and enhancing employability prospects. The Mechatronics and Control Engineering courses were suggested revisions in terms of re-allotment in number of teaching hours and suitable pedagogical interventions in delivery.

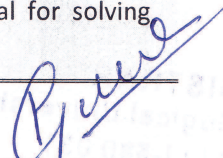
The study on sensor - 1st order/2nd order/steady/transient response to be investigated in detail while electronic concepts related to interface design may be restricted to introductory level. Electro-mechanical actuators can be given more emphasis, selection of AC/DC drives, Pneumatics can be part of Control/ Mechatronics study.

Revisions were also suggested in the course on 'Finite Element Methods'. Revisions to the existing curriculum were focused on post processing techniques in software tools and data acquisition for experimental validation. To cover the case studies pertaining to industrial field issues, numerous examples were included in the curriculum. The associated lab introduced with complex engineering challenges as exercises. Further, the students were expected to publish papers on their laboratory work.

The course CAD Modelling and PLM (2-0-2) introduced with 15hr/week hands-on immersive training experience, with a focus on Exposure to system building from components/sub-systems. Emphasis on 2D, 3D drafting, generation of BOM, GD&T, exploded view and rendering features was increased. Also, included Product development and Reverse Engineering as an extension to create industry-like learning environment through virtual Projects (Mini Project).

The experts from Mathematics suggested modifications in 'Numerical Methods and Partial Differential Equation' course: Python programming was introduced as a tutorial for solving engineering problems to help students get better insight.




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The courses Machine Drawing and Manufacturing Processes II were introduced in place of Engineering Design & Product Realization which was to become the theme of Minor Project. The members approved the change.

The courses *Advanced Statistics and Machine Learning* and *Machine Learning Applications* introduced as niche verticals in view of job prospects in engineering services sector was highly appreciated and approved for implementation.

The verticals on E-Mobility elective were introduced after consultations with experts from Altair - *Vehicle Structure and Design Optimization* and *Dynamics & Durability of Vehicles*. The external members both from academia and industry were in alignment in approving the courses for implementation as the field is upcoming both for entrepreneurship potential and employability.

Another elective course on Applications of Vibrations and acoustics was introduced after extensive interaction with M/s Josts – a leading company in the field of NVH. The BOS approved the course for implementation.

The Industry internship/project during 8th sem to ensure a longer duration Industrial contact for students leading to their employability was approved for implementation.

The scheme and curriculum from 1st sem to 8th sem for respective admission batches was approved.

Agenda 3:

Review of Syllabus of PG program

Resolution 3:

The Machine Design/Production Management/Energy Systems Engineering M.Tech. Programs were provisioned longer industry stay for students with entire 3rd sem for Industrial training/project got BOS approval.

The course **Computational Methods in Engineering Analysis** for MD /ESE Programmes was approved with suggestions to have concepts of statistics, probability and random events.

In Machine Design Programme, Thermal stress module has been introduced in **Mechanics of solids** course to focus on thermo elastic stress-strain relations of thin circular disk, long circular cylinder, and straight beams.

The Energy Systems Engineering Programme proposed a new course tilted **Economic aspects of Energy conversion** to cover economic aspects of energy conversion. The changes were approved with suggestion to give due stress on analytical aspects.

The Production Management Programme proposed a course on **Research Methodology** with orientation towards research practice covering research techniques and statistical tools. The change has been appreciated and approved by BoS members.

To enhance employment opportunities to graduating students a thorough hands-on experience on PLM/ERP tools is essential, therefore Mini Project course was introduced at the 2nd semester.

The practice oriented initiative was duly appreciated and approved.

The curriculum scheme and structure from 1st sem to 4th sem for respective admission batches was approved.

Agenda 4: New initiatives

Resolution 4:

The initiatives to help student learn and acquire niche skill sets in *Product Lifecycle Management (PLM)* (6 credit, 2 elective, 160 hr), *Advanced CAE* (6 credit, 2 elective, 160 hrs) and minor program

– *Advanced Manufacturing for Aerospace Applications* (15 credit, 5 course, 320 hrs + Project at AEQUS campus), were three verticals that resulted in 45 student placements. (*Recruitment orders expected by last week of May 2019*).

Employment Initiatives for Production Management PG program through revamped curriculum with focus on PLM and ERP to facilitate student employability in Engineering Services Industry.

The School is working on other potential verticals for UG program in *Machine Learning*, *E-mobility* and *Digital Twin*, the detailed syllabi will be shared with BOS members through email for approval.

The collaborative efforts being made by the School with the Dassault Systems, Altair, Bosch and AEQUS in designing the niche verticals was appreciated by the members.

The new initiatives and the efforts by the faculty members were encouraged.

Agenda 5:

Status of Minor Programs

Resolution 5:

The status of all four minor programs - *Innovation and Product Development*, *Automotive Engineering*, *Bio-Engineering* and *Advanced Manufacturing for Aerospace Applications* was presented.

The status of Minor Programs was reviewed and endorsed by the BOS.

Agenda 6:

Student Performance

Resolution 6:

The student achievements in curricular, co-curricular and extra-curricular activities were presented. The experiential and contextualized learning opportunities created by the School in various courses helped students perform consistently in their regular academics and acquire the relevant technical and professional skills. Students' engagement in research was visible through their active participation in REU course leading to many publications, one of which has won 1st prize in an international conference. A team of students has won prestigious All India National Meritorious Invention Award for their product 'Smart FOB' under the category 'National Budding Innovators' organized by NRDC and Ministry of Science & Technology, successively second time with a prize money of Rs. 1,00,000/-. The Motor Sports club participated in SAE India E-BAJA, M-BAJA and SUPRA competitions and won no. of awards. A team of aeroKLE – an aero modelling club participated first time in National level SAE India Aero Design Challenge 2018 competition and got All India 8th Rank.

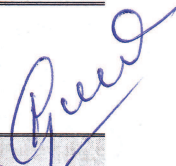
The overall student performance in UG and PG Programmes were discussed and approved.

Agenda 7:

Review of Research progress

Resolution 7:

The on-going research activities in the School, publication and citation details and patents filed by the faculty were discussed. The initiative at KLETU Research Centre to promote an inclusive


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research through SRG, ERG and ERS group was presented with special focus on REU and REEF courses.

The members reviewed and approved the proposed initiatives with suggestion to actively continue research.

Agenda 8:

Review of OBE framework of the School

Resolution 8:

The OBE initiatives and attainment of Program Outcomes along with Program Specific Program outcomes were closely reviewed and appreciated.

The PEOs and POs were also reviewed for their relevance and approved for continuation.

Agenda 9:

Initiative for attainment of key results

Resolution 9:

The School initiatives in alignment with University guidelines to enhance operational efficiency were presented.

The four objectives and the key results (OKRs) were approved with due appreciation to the efforts made.

Agenda 10:

Any other matter with the permission of the chair

Resolution 10:

The changing placement scenario for mechanical engineering students was discussed in the backdrop of IT companies not hiring non-IT graduates from the current year. The expectation of niche skill sets by core companies has prompted the school to identify industry relevant verticals to get the students employed. In the process a dilemma in curriculum design arises that should imbibe niche skill sets without compromise on fundamental concepts. The members cited similar experiences and suggested incremental mode of growth was relevant in present context as practiced by the school. At no point of time, emphasis on fundamental core courses should be diluted, the members opined.

The board empowered the chairman to revise/modify curriculum structure and syllabus wherever required, if circumstances so demand and the same could be ratified in the next meeting.

The meeting was concluded with vote of thanks by the Chairman.

Enclosed:

1. UG Program – Structure and Syllabus

- i. 2016 - 2020 batch
- ii. 2017 - 2021 batch
- iii. 2018 - 2022 batch
- iv. 2019 - 2023 batch


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2. PG Program – Structure and Syllabus

- i. Production Management
 - a. 2018 – 2020 batch
 - b. 2019 – 2021 batch
- ii. Energy Systems Engineering
 - a. 2018 – 2020 batch
 - b. 2019 – 2021 batch
- iii. Machine Design
 - a. 2018 – 2020 batch
 - b. 2019 – 2021 batch

3. Minor Program

- i. Innovation and Product Development
- ii. Automotive Engineering
- iii. Bio-engineering
- iv. Advanced Manufacturing for Aerospace Applications

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Members of BOS in Mechanical Engineering

S.No.	Name	Profession	Full Postal Address	Position	Signature
1.	B B Kotturshettar	Professor & Head of the School/ Department	Professor & Head, Mechanical Engineering	Chairman	
2.	N R Banapurmath	Professor, Dean's nominee	Professor, Mechanical Engineering	Member	
3.	S B Burli	Associate Professor Dean's nominee	Associate Professor, Mechanical Engineering	Member	
4.	P M Bhovi	Assistant Professor Dean's nominee	Assistant Professor, Mechanical Engineering	Member	
5.	Dr. Nagesha N.	Subject expert from outside the college nominated by the Vice-Chancellor	Professor, Department of studies in Industrial and Production Engineering, University B D T College of Engineering, Davangere	Member	
6.	Dr. S V Prabhu	Subject expert from outside the college nominated by the Vice-Chancellor	Professor Department of Mechanical Engineering, Indian Institute of Technology, Bombay. Professor, Indian Institute of Technology, Dharwad	Member	 13/4/19
7.	Veeresh Vastpad Bashant Marikath	Representative from industry corporate sector/ allied area relating to placement nominated by the Vice-Chancellor	Principal Engineer Quest Global, Belgaum	Member	 13/04/19
8.	Dr. Prasanna G Bhat	Representative from industry corporate sector/ allied area relating to placement nominated by the Vice-Chancellor	General Manager, Powertrain Engineering, The Automotive Research Association of India, S.No. 102, Vetal Hills, Off Paud, Kothrud, Pune	Member	 13/04/19

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S.No.	Name	Profession	Full Postal Address	Position	Signature
9.	S B Menon	Post-graduate meritorious alumnus nominated by the Vice-Chancellor	CEO Unique Circle Group, Pimpri Chinchwad, Pune	Member	
10.	<i>Student Representatives</i>	Student Member representing each of the program offered by the Department/ School/ Center	<i>Program Details</i>	Student Member	
	Manjunath Hiremath		UG		
	Shravya M.Sanu		UG		
	Girish Karikatti		PG-MD		
	Ashwini Hiremath		PG_ESE		
	Faraz Mueen Mulla		PG-PM		
	Sushruth Halewadimath		Ph.D		
11.	P P Revankar	ONE Senior faculty member nominated by the concerned Head of the Department/ School/ Center	Associate Professor, PG-Energy Engineering	Member Secretary	
12.	Dr. Murigendrappa	Invitee	Associate Professor, National Institute of Technology Karnataka, Surathkal	Member	
13.	Dr. Anand Ramani	Invitee	Subject Matter Expert and Head of CAE KPIT Technologies Ltd., Bangalore F-016 Gopalan Habitat Splendour Brooke fields, Kundalahalli	Member	
14.	Vijaykumar R	Invitee	General Manager, Mechanical Engineering Robert Bosch Engineering and Business Solutions Pvt. Ltd., Campus 1B, Ecospace, Bangalore	Member	
15.	Prof. S. Gopalakrishnan	Invitee	Assistant Professor Dept. of Mechanical Engineering Indian Institute of Technology Bombay	Member	



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S.No.	Name	Profession	Full Postal Address	Position	Signature
16.	K G Kodancha,	Invitee	Professor, PG-Machine Design	Member	
17.	V N Gaitonde	Invitee	Professor, PG-Production Management	Member	
18.	V N Sanagoudar	Invitee	Associate Professor, Mechanical Engineering	Member	

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II Sem M. Tech. (Production Management) Curriculum Content

Course Code: **19EPMW701**

Course Title: **Mini Project**

L-T-P: **0-0-3**

Credits: **3**

Contact Hrs: **6 hrs/week**

ISA Marks: **80**

ESA Marks: **20**

Total Marks: **100**

Teaching Hrs: **72 hrs**

Exam Duration: **2 hrs**

Mini Project: The Guide shall define the problem statement for the Project work. The student shall execute the Project within three months duration during the 2nd semester. The student who has opted Mini Project shall opt either ERP or PLM theme to carry out their work.