Communication : 1

Teachers Feedback AY 2022-23

This questionnaire aims to gather details on our curriculum, instruction, learning, and evaluation. Your information will be kept private and utilized as critical input for the quality improvement of the plan for the institution.

Curriculum

The respondent's email (**anjali.joshi@mmit.edu.in**) was recorded on submission of this form.

Name of Teacher (Starting with SURNAME) *

Dr. Anjali J. Joshi

Department

- ○ Engineering Sciences
- ○ Civil
- ○ Computer
- ○ Mechanical
- ◉ Mechatronics
- ○ Artificial Intelligence and Data Science

The curriculum has been updated from time to time. *

- (●) Strongly agree
- ( ) Agree
- ( ) Neutral
- ( ) Disagree
- ( ) Strongly disagree

The syllabus provides proper scope of experiential learning and critical thinking *

- (●) Strongly agree
- ( ) Agree
- ( ) Neutral
- ( ) Disagree
- ( ) Strongly disagree

The curriculum includes courses to sensitize students towards the cross cutting issues such as gender, ethics, human values, environment and sustainability. *

- ( ) Strongly agree
- (●) Agree
- ( ) Neutral
- ( ) Disagree
- ( ) Strongly Disagree

The Books prescribed / listed as reference material are relevant, updated and appropriate. *

- ○ Strongly agree
- ◉ Agree
- ○ Neutral
- ○ Disagree
- ○ Strongly disagree

Board of studies is taking care to ensure the currency and relevance of the course offered. *

- ○ Strongly agree
- ◉ Agree
- ○ Neutral
- ○ Disagree
- ○ Strongly disagree

The system followed by the University for the design and development of curriculum is effective. *

- ○ Strongly agree
- ◉ Agree
- ○ Neutral
- ○ Disagree
- ○ Strongly disagree

The course curriculum ensures academic flexibility enabling students to choose subjects as per their interest *

- ○ Strongly agree
- ◉ Agree
- ○ Neutral
- ○ Strongly disagree
- ○ Disagree

FDP organized by Institute and University for effective implementation of revised curriculum. *

- ○ Strongly Agree
- ○ Agree
- ◉ Neutral
- ○ Disagree
- ○ Strongly Disagree

Adequate Laboratories & Equipment are available to conduct Experiments *

- ○ Strongly Agree
- ◉ Agree
- ○ Neutral
- ○ Disagree
- ○ Strongly Disagree

Course outcomes mentioned in the syllabus are well defined and clear *

- ○ Strongly agree
- ◉ Agree
- ○ Neutral
- ○ Disagree
- ○ Strongly disagree

Ambience

Does Institute provides ICT enabled Smart Classrooms *

- ◉ Yes
- ○ No

Institute having Well-equipped laboratories *

- ◉ Strongly Agree
- ○ Agree
- ○ Neutral
- ○ Disagree
- ○ Strongly Disagree

Institute has Computer labs with latest softwares *

- (●) Strongly Agree
- ( ) Agree
- ( ) Neutral
- ( ) Disagree
- ( ) Strongly Disagree

Institute provides Wi-fi facility in Campus *

- (●) Strongly Agree
- ( ) Agree
- ( ) Neutral
- ( ) Disagree
- ( ) Strongly Disagree

Institute has good Mess & Canteen facility *

- (●) Strongly Agree
- ( ) Agree
- ( ) Neutral
- ( ) Disagree
- ( ) Strongly Disagree

Institute has sufficient Medical facility. *

- (●) Strongly Agree
- ( ) Agree
- ( ) Neutral
- ( ) Disagree
- ( ) Strongly Disagree

Institute has adequate Sports facilities, equipments. *

- (●) Strongly Agree
- ( ) Agree
- ( ) Neutral
- ( ) Disagree
- ( ) Strongly Disagree

Institute has provided and maintained Green Campus & Cleanliness *

- (●) Strongly Agree
- ( ) Agree
- ( ) Neutral
- ( ) Disagree
- ( ) Strongly Disagree

Infrastructural facilities, such as Teacher's rooms, class rooms, reading rooms and Washrooms are available in the Department *

- (●) Strongly agree
- ( ) Agree
- ( ) Neutral
- ( ) Disagree
- ( ) Strongly disagree

How are the Transport facilities at Institute? *

- (●) Excellent
- ( ) Good
- ( ) Fair
- ( ) Poor

Any other suggestions

Feedback submitted by teacher

The Credits in T. E Mechatronics engineering 2019 course is not as per the University norms.

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Approved by AICTE, New Delhi, Recognised by DTE, M.S.Mumbai, Affiliated to Savitribai Phule Pune University
Email : principal@mmit.edu.in Website : www.mmit.edu.in
Tel No. : +91 7447786623 / +91 7447786624 DTE Institute Code : 6203

Ref.No:MMIT/ADMIN/2023-24/008 DATE: 17/04/2023

Communication made to SPPU, Pune (Dean)

To,

Dean - Faculty of Science & Technology
SPPU Pune ,Ganeshkhind Pune
Maharashtra 411007

Sub : Request to update credits for Third year semester II in Mechatronics Engineering Department under faculty of science and technology.

Respected Sir

According to rules and regulations for undergraduate programmes in Engineering under faculty of science and technology (W.E.F. 2019-20) , it is found that the total number of credits required to earn for the completion of the programme is 170 credits in a minimum period of eight semesters.
Total credits to be earned in Third year should be 42 credits but currently it is 44 credits.
It is proposed to reduce the credits of the courses for Finite Element Analysis and Mini Project from Third year sem-II by 1 after verification so that it can fulfill the criteria of earning minimum credits in the third year as per given guidelines.

Dr.R.V.Bhortake
PRINCIPAL
MMIT PUNE

Marathwada Mitramandal's Institute of Technology PUNE 411047

Date:17/04/2023
Encl.:
i)Structure of Syllabus
ii)Rules and regulations for undergraduate programmes of SPPU
For undergraduate program in Engineering

O/C

Dean Office Savitribai Phule Pune University 18/4/2023

Structure of T.E. (Mechatronic) Semester -V (Pat.2019)														
Course Code	**Course Name**	**Teaching Scheme (Hours/Week)**			**Examination Scheme & Marks**						**Credits**			
		TH	**PR**	**TUT**	**ISE**	**ESE**	**TW**	**PR**	**OR**	**TOT**	**TH**	**PR**	**TUT**	**TOT**
317541	Machine Design	03	02	---	30	70	25	---	25	150	03	01	---	04
317542	Manufacturing Processes	03	---	01	30	70	25	---	---	125	03	---	01	04
317543	Control System	03	02	---	30	70	25	25		150	03	01	---	04
317544	Digital Signal Processing	03	02	---	30	70	25	---	25	150	03	01	---	04
317545	Microcontrollers	03	02	---	30	70	---	---	25	125	03	01	---	04
317546	Metrology Laboratory	---	02	---	---	---	---	50	---	50	---	01	---	01
302048	Audit course - V[$]	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	**15**	**10**	**01**	**150**	**350**	**100**	**75**	**75**	**750**	**15**	**05**	**01**	**21**

Structure of T.E. (Mechatronics) Semester -VI (Pat.2019)														
Course Code	**Course Name**	**Teaching Scheme (Hours/Week)**			**Examination Scheme & Marks**						**Credits**			
		TH	**PR**	**TUT**	**ISE**	**ESE**	**TW**	**PR**	**OR**	**TOT**	**TH**	**PR**	**TUT**	**TOT**
317547	Industrial Automation	03	---	01	30	70	25	25	---	150	03	---	01	04
317548	Electro-Mechanical System	03	02	---	30	70	25	---	25	150	03	01	---	04
317549	Finite Element Analysis	03	02	---	30	70	25	---	25	150	04	01	---	05
317550	Embedded System Design	03	02	---	30	70	—	---	25	125	03	01	---	04
317551	Artificial Intelligence & Machine Learning	03	02	---	30	70	---	---	25	125	03	01	---	04
317552	Mini Project	---	02	---	---	---	---	50	---	50	---	02	---	02
302056	Audit course - VI[$]	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	**15**	**10**	**01**	**150**	**350**	**75**	**75**	**100**	**750**	**16**	**06**	**01**	**23**

Abbreviations: TH: Theory, PR: Practical, TUT: Tutorial, ISE: In-Semester Exam, ESE: EndSemesterExam,TW: Term Work, OR: Oral

Note: Interested students of TE Mechatronics Engineering can opt for any one of the audit courses from the list of audit courses prescribed by BoS (Automobile and Mechanical Engineering)

Instructions

Credits not as per University Norms

- Practical/Tutorial must be conducted in three batches per division only.
- Minimum number of required Experiments/Assignments in PR/ Tutorial shall be carried out as mentioned in the syllabi of respective subjects.
- Assessment of tutorial work has to be carried out as a term-work examination. Term-work Examination at second year of engineering course shall be internal continuous assessment only.
- Project based learning (PBL) requires continuous mentoring by faculty throughout the semester for successful completion of the tasks selected by the students per batch. While assigning the teaching workload of 2 Hrs/week/batch needs to be considered for the faculty involved. The Batch needs to be divided into sub-groups of 3 to 4 students. Assignments / activities / models/ projects etc. under project based learning is carried throughout the semester and Credit for PBL has to be awarded on the basis of internal continuous assessment and evaluation at the end of semester.
- Audit course is mandatory but non-credit course. Examination has to be conducted at the end of Semesters for award of grade at institute level. Grade awarded for audit course shall not be calculated for grade point &CGPA.prescribed by BoS (Automobile and Mechanical Engineering)

Structure of T.E. (Mechatronic) Semester -V (Pat.2019)														
Course Code	**Course Name**	**Teaching Scheme (Hours/Week)**			**Examination Scheme & Marks**						**Credits**			
		TH	**PR**	**TUT**	**ISE**	**ESE**	**TW**	**PR**	**OR**	**TOT**	**TH**	**PR**	**TUT**	**TOT**
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317542	Manufacturing Processes	03	---	01	30	70	25	---	---	125	03	---	01	04
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317544	Digital Signal Processing	03	02	---	30	70	25	---	25	150	03	01	---	04
317545	Microcontrollers	03	02	---	30	70	---	---	25	125	03	01	---	04
317546	Metrology Laboratory	---	02	---	---	---	---	50	---	50	---	01	---	01
302048	Audit course - V[$]	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	**15**	**10**	**01**	**150**	**350**	**100**	**75**	**75**	**750**	**15**	**05**	**01**	**21**

Structure of T.E. (Mechatronics) Semester -VI (Pat.2019)														
Course Code	**Course Name**	**Teaching Scheme (Hours/Week)**			**Examination Scheme & Marks**						**Credits**			
		TH	**PR**	**TUT**	**ISE**	**ESE**	**TW**	**PR**	**OR**	**TOT**	**TH**	**PR**	**TUT**	**TOT**
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	Total	**15**	**10**	**01**	**150**	**350**	**75**	**75**	**100**	**750**	**15**	**05**	**01**	**21**

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Note: Interested students of TE Mechatronics Engineering can opt for any one of the audit courses from the list of audit courses prescribed by BoS (Automobile and Mechanical Engineering)

Instructions

Credits Revised

- Practical/Tutorial must be conducted in three batches per division only.
- Minimum number of required Experiments/Assignments in PR/ Tutorial shall be carried out as mentioned in the syllabi of respective subjects.
- Assessment of tutorial work has to be carried out as a term-work examination. Term-work Examination at second year of engineering course shall be internal continuous assessment only.
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- Audit course is mandatory but non-credit course. Examination has to be conducted at the end of Semesters for award of grade at institute level. Grade awarded for audit course shall not be calculated for grade point &CGPA.prescribed by BoS (Automobile and Mechanical Engineering)

Communication : 2

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Ref.: MMIT/EnggSci/2022-23/25 Date: 23.11.2022

To,
Dr. Sunil G. Kandalkar
Member, Board of Studies,
Engineering Sciences (Savitribai Phule Pune University)
Professor in Physics
JSPM's Rajarshi Shahu College of Engineering,
Tathawade, Pune

Subject: *Communication about students and faculties feedback for Engineering Physics*

Dear Sir,

During the Course Exit Survey, the expectations of the students are also taken into consideration. Some of the expectations are complied as below:

- Must include syllabus which can be applicable to everyday life
- It's very good syllabus and helpful also
- Modern science concepts like material science , crystal physics should be added to the curriculum for betterment of the students
- All the physics syllabus is very helpful in our daily life,also the teaching method is good .
- The course was excellent and throughout the course we gained a lot of in depth knowledge and many ideas to grow in future
- Experimental model for explaining topic of chapter or experiment.
- Syllabus should be reduced and topics which are not in much use these days should be removed.
- More practical type of learning should be focused as only by reading its not possible to gain brief knowledge about topics.

As a faculty of Physics, I would like to add the following points -

- The contents in the units can be distributed so that all units can be covered in the same number of hours
- Unit 1 requires more than 10 hours to cover up. Some topics may be removed such as a derivation for maxima and minima of grating, Resolving Power and Rayleigh's criteria for resolution.
- Unit 2 i.e. lasers and optical fibers may be sequenced after Unit 4 i.e. semiconductor physics.
- Unit 3 i.e. quantum mechanics a few topics on principles of Quantum Computing may be added.
- In Unit 4 i.e. Semiconductor Physics, effective mass of electron and density of states may be removed as they are currently taught without mathematical background. If included, that will increase the contents and number of hours.
- In Unit 5, advanced topics about magnetism may be added instead of preliminary requirements.
  In Unit 6, Nanotechnology, all the topics are theoretical and descriptive.

M.M. INSTITUTE OF TECHNOLOGY PUNE-47

It is our request to you to take into consideration the feedback and suggestions of the students and faculties during the next syllabus revision.

Thanking you.

U P Moharil.

Dr. Umesh Moharil
Associate Professor in Physics
MMIT, Lohgaon, Pune - 411047

Dr. Sunil G. Kandalkar

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Communication : 3

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Ref: MMIT / Mech/ 2022-23/10-B Date: 19/02/2021

To,
Board of Studies,
Mechanical Engineering,
Savitribai Phule Pune University, Pune

Subject: - *Possible addition of new content/add- on courses in the curriculum of TE Mechanical 2019 course.*

Dear Sir,

To bridge the curriculum Gap, the possible addition of new contents in the curriculum is suggested by the Mechanical Engineering Department from our institute. To better attain the program outcome, we suggest a new addition of the course for TE Mechanical in the revised curriculum of 2019 course. The suggestions of new additional courses are as given below.

1. Skill Development,
2. Students Internship/Mini Project,
3. Artificial Intelligence & Machine Learning
4. Industrial Internet of Things (IIoT)

You are requested to add above suggested courses in the revised curriculum of 2019 course.
This is for your kind consideration please.

Thanking you,

Yours sincerely,

(Prof. S. S. More)
HOD, Mechanical Engineering

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Department of Mechanical Engineering

Date: - 15/02/2021

Minutes of Meeting

The suggestions and feedback about the possible enrichment in the curriculum of the Mechanical Engineering is obtained from stakeholders viz. students, faculty, alumni, employers and industry. It is suggested to enrich the curriculum by additional courses after gap analysis.

In continuation, a meeting of faculties of Mechanical Engineering Department at MMIT, Alumni and Industry persons was arranged in the Mechanical Department. The following are the Minutes of the Meeting -

- The gaps are identified from the input received from various stakeholders like; Alumni, Faculty, Employers and Industry.
- The identified gaps and feedback from various stakeholders are presented to the Department Advisory Board (DAB). After deliberations and analysis, DAB finalizes the essential curriculum gaps. To bridge up these gaps, DAB suggests measures as add-on activities to be taken up by the department for the program. To fulfill the identified gaps, new additional courses are suggested to BOS.

The suggested new addition courses and its importance for filling the gap are as given below.

1) **Skill Development:-** Internships are educational and career development opportunities, providing practical experience in a field or discipline. They are structured, short-term, supervised placements often focused around particular tasks or projects with defined timescales. The internship has to be meaningful and mutually beneficial to the intern and the organization. To develop various skills and create awareness about the industrial environment the subject like Skill Development is very much essential for engineering students. This course will expose technical students to the industrial environment, which cannot be simulated in the classroom and hence creating competent professionals for the industry and increase the employability.

2) **Students Internship/Mini Project:-** To create awareness of industry work culture the students should have industry internships. Internship provides an excellent opportunity for learners to see how the conceptual aspects learned in classes are integrated into the practical world. Industry/on, project experience provides much more professional experience as value

addition to classroom teaching. The student's internship provides opportunities for students to get professional/personal experience. In addition, students learn and understand real life/industrial situations.

3) **Artificial Intelligence and Machine Learning:** - The modern tools to be included in the curriculum. The fundamentals of artificial intelligence and machine learning are to be included in the curriculum. The feature extraction and selection techniques for processing the data set is to be added in the curriculum.

4) **Internet of Things (IoT):** - The internet of things (IoT) is the use of smart sensors and actuators to enhance manufacturing and industrial processes. IoT devices in an IoT network include sensors, computers, and machines used in manufacturing, agriculture, and mission-critical applications, for example nuclear and energy management systems.

MoM compiled by

(Prof. Sudhir S. More)
HOD, Mechanical Engineering

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Date: - 15/02/2021

Department of Mechanical Engineering

Sr.	Name of Stakeholders	Stakeholders	Sign.
1	Prof. S. S. More	HOD, Mechanical Engineering	
2	Dr. A. J. Joshi	Cohort cluster (Design Engineering)	
3	Prof. E. D. Kurhe	Cohort cluster (Thermal Engineering)	
4	Mr. R. P. Polas	Cohort cluster (Heat and Mass Transfer Engineering)	
5	Prof. B. D. Patil	Cohort cluster (Design Engineering)	
6	Dr. G.L. Allampallewar	Cohort cluster (Automotive Engineering)	
7	Shubham Gulve	Alumni	
8	Saurabh Ghadge	Alumni	
9	Abhijeet Jadhav	Alumni	
10	Mr. Sachin Naik	Industry Person	

(Prof. S. S. More)
HOD, Mechanical Engineering

Marathwada Mitra Mandal's Institute of Technology PUNE 411047