



!! Sabka Malik Atma !!

Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Computer Engineering

Student-Centric Methods for Enhancing Learning Experiences

Introduction

The institution adopts various student-centric methods to make the teaching-learning process interactive, participative, practical, and outcome-oriented. The primary objective is to enhance the learning experience of students by encouraging active participation, experiential learning, problem-solving abilities, innovation, and professional development. Through a combination of classroom instruction, practical exposure, expert guidance, industrial interaction, and skill development activities, the institution ensures holistic growth of students.

The institution focuses on three major approaches:

Experiential Learning

Participative Learning

Problem-Solving Methodologies

These approaches help Students Bridge the gap between theoretical concepts and practical applications while developing professional competencies and lifelong learning skills.

1. Experiential Learning

Experiential learning enables students to learn through observation, practical exposure, and direct experience. The institution organizes industrial visits, educational tours, field visits, internships, and project-based activities to provide real-world exposure.

Activities Conducted

Industrial Visit to Scaffolding Formwork Centering

Civil Engineering students visited a construction site to understand scaffolding systems, formwork arrangements, safety practices, and practical construction methodologies.

Industrial Visit to Zeco Aircon Ltd., Lahe

Mechanical Engineering students observed manufacturing operations, quality control procedures, production systems, and industrial management practices.



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Industrial Visit to RMC Plant, Malhed, Murbad

Civil Engineering students gained practical exposure to concrete production processes, batching operations, quality testing methods, and plant functioning.

Industrial Visit to J Kumar Infra – Saket Kalva Bridge Project, Thane

Students observed bridge construction techniques, project execution methods, infrastructure development practices, and structural engineering applications.

Educational Tour to ISRO Space Exhibition, VJTI, Mumbai

Electronics & Telecommunication and Mechanical Engineering students explored space technology, satellite systems, aerospace innovations, and scientific advancements.

Outcomes

Enhanced practical knowledge

Better understanding of industrial practices

Improved technical competencies

Increased industry awareness

Application of theoretical concepts in real-life situations

2. Participative Learning

Participative learning encourages students to actively engage in academic and co-curricular activities. The institution organizes expert lectures, guest sessions, seminars, workshops, awareness programs, and induction activities to promote collaborative learning.

Activities Conducted

Expert Lecture on “Introduction to Structural Dynamics and Earthquake Engineering”



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The lecture provided Civil Engineering students with knowledge of structural behavior under dynamic loading and earthquake-resistant design principles.

Guest Lecture on “Opportunities for Civil Engineering Graduates”

Students were guided regarding career opportunities, higher education prospects, entrepreneurship, and employment sectors available in Civil Engineering.

Expert Session on “IoT Considerations and its Applications”

The session introduced students to emerging trends in the Internet of Things, smart systems, connected devices, and industrial applications.

Expert Lecture on “Data Science and Data Analytics”

Students gained exposure to data-driven technologies, analytics tools, machine learning concepts, and career opportunities in the field of data science.

Expert Guidance Program on “Preparation for UPSC and MPSC Examinations”

First-year students received guidance regarding competitive examinations, career planning, time management, and public service opportunities.

One Week Student Induction Program

The induction program helped newly admitted students understand institutional culture, academic regulations, facilities, professional ethics, and opportunities available within the institute.

Outcomes

Improved communication skills

Increased confidence and participation

Enhanced teamwork and leadership qualities

Better career awareness

Exposure to emerging technologies



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Department of Computer Engineering

3. Problem-Solving Methodologies

The institution promotes analytical thinking and problem-solving skills through technology-oriented sessions, innovative learning activities, projects, and awareness programs.

Activities Conducted

IoT Applications Session

Students learned how technology can be used to solve real-world problems through connected devices and smart solutions.

Data Science and Data Analytics Session

Students were exposed to analytical methods, data interpretation techniques, and decision-making approaches using modern tools.

Energy Literacy Training Program

The institution, in association with Energy Swaraj Foundation, organized an online Energy Literacy Training Program.

Objective: To create awareness among students regarding climate correction, energy conservation, sustainability, and responsible energy utilization.

Participation: A total of 350 students successfully completed the training program.

Outcomes

Development of analytical thinking

Improved problem-solving abilities

Enhanced technological awareness

Promotion of innovation and creativity

Increased environmental and sustainability consciousness

Conclusion



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Department of Computer Engineering

The institution effectively implements student-centric teaching-learning practices through experiential learning, participative learning, and problem-solving methodologies. Industrial visits, educational tours, expert lectures, guidance programs, and skill development activities provide students with practical exposure, professional knowledge, and opportunities for holistic development. These initiatives significantly contribute to enhancing learning experiences, improving academic performance, and preparing students to meet industry and societal challenges effectively.



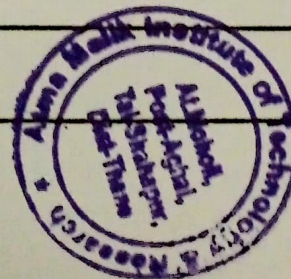
ATMA MALIK INSTITUTE OF TECHNOLOGY AND RESEARCH (AMRIT)

Mohili-Aghai, Shahapur, Thane, Maharashtra, India, Pincode: 421603
Contact: +91 7720012139 / +91 9552773875, info@vishwatmakengg.in

1.1.1.A : Curriculum Planning

The Institution ensures effective curriculum planning through a well-planned and documented process. The index of documents along with the case study of department of Mechanical Engineering is elaborated below.

Sr. No.	Description
A.	University Calendar
C.	Institute Calendar and its adherence
D.	Department Calendar and its adherence
E.	Subject Choice
F.	Elective Choice
G.	Load distribution
H.	Master Time Table and Class Time Table
I.	Course Plan
J.	Lab Plan
K.	Tutorial Plan
L.	Lab Manual
M.	List of Course Outcome
N.	CO-PO Mapping



General Guidelines for conducting Academic & examination Activities

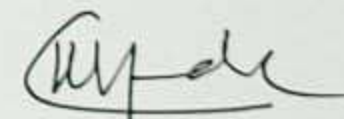
All the principals of the affiliated colleges in Engineering are hereby informed that the Detailed Schedule of the Term of Undergraduate (BE), Postgraduate (ME) in Engineering programs for Academic year 2023 – 24 will be as under:

Sr. No	Particular	ODD Semester Second Half 2023 SE, TE and BE	Particular	Even Semester First Half 2024 SE, TE and BE
1.	Working days for all Engineering Programs	TE and BE 10 th July 2023 to 27 th October 2023 SE 17 th July 2023 to 3 rd November 2023	Working days for all Engineering Programs	8 th January 2024 to 19 th April 2024
2.	Conducting Oral/Practical Examination	TE and BE 28 th October to 9 th November 2023 SE 4 th November 2023 to 11 th November 2023	Conducting Oral/Practical Examination	24 th April 2024 to 7 th May 2024
3.	Theory Examination SE, TE, BE (SEM III, V and VII)	22 nd November 2023 to 6 th December 2023	Theory Examination SE, TE, BE (SEM IV, VI, VIII)	13 th May 2024 to 24 th May 2024
4.	Theory Examination SE, TE, BE (SEM IV, VI, VIII)	8 th December 2023 to 20 th December 2023	Theory Examination SE, TE, BE (SEM III, V, VII)	27 th May to 2024 to 7 th June 2024
5.	Commencement of New Term	8 th January 2024	Commencement of New Term	8 th July 2024

All Faculty should be available for examination and assessment duties as required.

- All colleges should conduct Internal Assessment Test I & II on completion of approximately 40% and 70% of syllabus respectively

Date:



Associate Dean
Faculty of Science & Technology
University of Mumbai

General Guidelines for conducting Academic & examination Activities

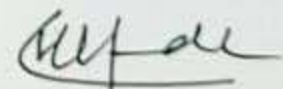
All the principals of the affiliated colleges in Engineering are hereby informed that the Detailed Schedule of the Term of Undergraduate First Year (FE), Postgraduate (ME) in Engineering programs for Academic year 2023 – 24 will be as under:

Sr. No	Particular	ODD Semester Second Half 2023 FE and ME	Particular	Even Semester First Half 2024 FE and ME
1.	Working days for all Engineering Programs	7 th August 2023 to 30 th November 2023	Working days for all Engineering Programs	8 th January 2024 to 19 th April 2024
2.	Conducting Oral/Practical Examination	1 st December to 9 th December 2023	Conducting Oral/Practical Examination	24 th April 2024 to 7 th May 2024
3.	Theory Examination FE, ME (SEM I)	13 th December to 22 nd December 2023	Theory Examination SE, TE, BE (SEM II)	13 th May 2024 to 24 th May 2024
4.	Commencement of New Term	8 th January 2024	Commencement of New Term	8 th July 2024

All Faculty should be available for examination and assessment duties as required.

- All colleges should conduct Internal Assessment Test I & II on completion of approximately 40% and 70% of syllabus respectively

Date:

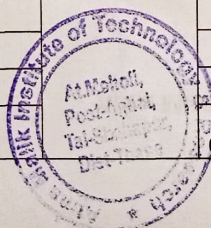

Associate Dean
Faculty of Science & Technology
University of Mumbai



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ACAD-DI-03	Institute Calendar	Academic Year: 2023-24
Rev : 00		Semester: EVEN/ODD
Date: 11-7-2022		

Sr. No.	Activity	Activity Details	In charge Staff	Planned Date	Conduction date	Remarks in case of any deviation
1	Commencement of classes (TE, BE and SE)		HODS	10.07.2023 and 17.07.2023 respectively	10.07.2023 and 17.07.2023 respectively	Done
2	Orientation program for students and parents of first year		HODs and Departmental coordinator/staff	After the completion of centralized admission process	07/08/2023 - 11/08/2023	Done
3	Orientation program for students and parents of Direct second year			After the completion of centralized admission process		
4	Fresher's / Welcome party for first year and direct second year students			After two weeks of the completion of centralized admission process		
5	Orientation program for newly joined faculty members			01-08-2023	01-08-2023	Done
6	Monthly attendance report			12.08.2023	12-08-2023	Done
7	Independence Day			15-08-2023	15-08-2023	Done
8	Teachers' Day			05-09-2023	05-09-2023	Done
9	Monthly attendance report			12.09.2023	12-09-2023	Done
10	Engineers' day			15-09-2023	15-09-2023	Done
11	Mid term break (Ganesh Chaturthi)			19-09-2023 to 23.09.2023	19/09/23 to 23/09/23	Done
12	NSS Day			24-09-2023	24/9/23	Done
13	Monthly attendance report			12.10.2023	12/10/23	Done
14	Mahatma Gandhi Jayanti			02-10-2023	2/10/23	Done
15	1 week FDP			05-12-2023 to 10-12-2023	5-12-2023 to 10-12-2023	Done
16	Display Detention List (Odd sem)			01.12.2023	1/12/2023	Done
17	End Semester exam			December	Nov-Dec 2023	Done
18	NSS Camp			Tentatively 01-01-2023 to 07-01-2023	18-03-2024 to 19-03-2024	





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19	Commencement of classes (Second Semester)		08.01.2024	08/01/2024	Done
20	National Youth day		12-01-2024	12/01/2024	Done
21	National Voters' day		25-01-2024	25/01/2024	Done
22	Republic Day		26-01-2024	26/01/2024	Done
23	Chhatapati Shivaji Maharaj Jayanti		19-02-2024	19/02/2024	Done
24	A national level technical events for students by Mech, Civil, E& TC & Comp dept		24-02-2024 to 25-02-2024	24-02/2024 to 25/02/2024	Done .
25	National Science Day		28-02-2024	28/02/2024	Done
26	National Sports day		29-02-2024	29/02/2024	Done
27	World women's day		08-03-2024	08/03/2024	Done
28	Sports week (Indoor and outdoor sports events)		26-03-2024 to 31-03-2024	26/03/2024 to 31/03/2024	Done .
29	Amritstov		27-03-2024 to 20-04-2024 (Tentative)	27/03/2024 to 20/04/2024	Done
30	Farewell function for final year Students		08-04-2024	08/04/2024	Done
31	Dr Ambedkar Jayanti		14-04-2024	14/04/2024	Done
32	1 week FDP		15-05-2024 to 20-05-2024	15/05/24 to 20/05/24	Done
33	Farewell function for faculty members leaving the Institute		As and when applicable	31/03/2024 & 30/04/24	Done
34	Display Detention List (Even sem)		10.5.2024	10/05/24	Done .
35	End Semester exam		June	14/05 - 14/06/2024	Done .





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Atma Malik Institute of Technology & Research (AMRIT)

SUMMARY

No of Events Planned	No of Events Conducted	Percentage of Completion
35	33	94.28%

Prepared by

Academic Dean

Vice-Principal

Principal

Principal

Atma Malik Institute of Technology & Research
At Meholi, Post-Aghai, Tal-Shahapur, Dist-Thane

Note: Internal assessments and ESE (TH and PR) will be conducted as per the guidelines given by University of Mumbai

Add monthly attendance report dates as per the schedule

Add department wise Mentor-mentee meetings, guest lecture, seminar, workshop, FDP or any other activity planned

Add or delete the programs from above list as per your department requirement.





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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

ACAD-DI-04	Departmental Event Calendar	Academic Year: 2023-24
Rev : 00		
Date: 11-7-2022		Semester: ODD

Date of Preparation: 02/07/2023

Sr. No.	Activity	Activity Details	In charge Staff	Planned Date	Conducted date	Remarks in case of any deviation
1.	Departmental meeting	Arrange the meeting with HOD and discuss the Department problems	All Staff Members	03/07/2023	03/07/2023	
2.	Commencement of classes (SE, TE, BE)	Lesson plan, Practical plan, and syllabus for first unit test must be prepared before commencement of term.	All Staff Members	10/07/2023	12/07/23	
3.	HOD's address to students of SE, TE & BE	Start ODD Semester	H.O.D.	10/07/2023	10/7/2023	
4.	Departmental meeting	Arrange the meeting with HOD and discuss the Department problems	All Staff Members	12/07/2023	12/07/23	
5.	Mentor meeting	Arrange the tutor meeting and discuss the students their problems	Respective tutor teacher	28/07/2023	28/7/23	
6.	Display of Student Attendances	Display of Student Attendances for SE/TE/BE	Class Coordinators	31/07/2023	31/07/23	
7.	Principal meeting	Arrange the meeting with Principal and discuss the Department problems	All Staff Members	04/08/2023	04/08/23	
8.	Departmental meeting	Arrange the meeting with HOD and discuss the Department problems	All Staff Members	07/08/2023	07/08/23	
9.	Guest Lecture	Arrange the guest lecture on Industry Expert	Staff Coordinator	17or18/08/2023	18/08/23	
10.	MESA welfare activity	Arrange Visit to Matoshree Adult Care center At Khadavali	Staff Coordinator	21/08/2023	21/08/23	
11.	Safety Awareness Program	Safety Awareness Program for SE/TE/BE	Staff Coordinator	22 or 28/08/2023		
12.	Departmental meeting	Arrange the meeting with HOD and discuss the Department problems	All Staff Members	22/08/2023	22/08/23	



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Department of Mechanical Engineering

13.	Work Shop / FDP	Arrange the 5-6 days FDP on How to write Research Paper	Staff Coordinator	23/08/2023-27/08/2023	6 Sept to 12 Sept	Delay for Advance
14.	MESA Welfare activity	Arrange National sports day activity	Staff Coordinator	29/08/2023	29/08/23	Completed
15.	Departmental meeting	Arrange the meeting with Departmental staffs and discuss the Department problems	All Staff Members	31/08/2023	31/08/23	
16.	Students Attendances & Defaulter List	Display of Students Attendances & Defaulter List for SE/TE/BE	Class Coordinators	31/08/2023	31/08/23	
17.	Internal Assessment -I	Internal Assessment -I for SE/TE/BE	All Staff Members	Sept 2023	13/09-15/09	
18.	Students Mid Sem Feedback	Students Mid Sem Feedback for SE/TE/BE	Dept. Academic Coordinator	06/09/2023	06/09/23	
19.	Departmental meeting	Arrange the meeting with Departmental staffs and discuss the Department problems	All Staff Members	08/09/2023	08/09/23	
20.	Industrial Visit	Industrial Visit for SE/TE/BE	Staff Coordinator	1st week of Sept 2023	oct end	Industrial visit 19/10/23
21.	Display of IA-I Result	Display of IA-I Result for SE/TE/BE	Dept. Exam Coordinator	Sept 2023	Sept 2023	
22.	Parents Meet	Arrange the meeting with Departmental staffs and Parents to discuss the students problems	All Staff Members & H.O.D	15/09/2023	2nd week of oct	
23.	Guest Lecture	Arrange the guest lecture for SE/TE/BE	Staff Coordinator	2nd week of Sept 2023	2nd week of oct	Webinar 14/10/2023
24.	Provisional Detention List	Display of Provisional Detention List for SE/TE/BE	Class Coordinators	30/09/2023	30/09/23	
25.	Departmental meeting	Arrange the meeting with Principal and discuss the Department problems	All Staff Members & H.O.D	30/09/2023	30/09/23	
26.	Students End Sem Feedback	Students End Sem Feedback for SE/TE/BE	Dept. Academic Coordinator	23/10/2023	23/10/23	
27.	Add on Course	Arrange Add on course for SE/TE/BE	Staff Coordinator	Oct. 2023	+	
28.	Internal Assessment -II	Internal Assessment -II for SE/TE/BE	All Staff Members	Oct. 2023	OCT 2023	
29.	Display of IA-II Result	Display of IA-II Result for SE/TE/BE	Dept Exam Coordinator	Oct. 2023	oct 2023	



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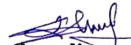
Department of Mechanical Engineering

30.	Departmental meeting	Arrange the meeting with Departmental Staffs and discuss the Department problems	All Staff Members & H.O.D	18/10/2023	18/10/23	
31.	Conclusion of Teaching	Syllabus Coverage, IA-I, IA-II Result, Extra Lecture	All Staff Members & H.O.D	Oct. 2023	Oct 2023	
32.	Term Work Submission	Term Work Submission for SE/TE/BE	All Staff Members	Oct. 2023	30/10/23 - 31/10/23	
33.	OR/PR Examination	Conduction of OR/PR Examination	All Staff Members	Oct. 2023	2/10/23 - 09/10/23	
34.	End Sem Examination	University Examination for SE/TE/BE	All Staff Members	Oct. 2023	Nov 2023	
35.	Departmental meeting	Arrange the meeting with Principal and discuss the Department problems	All Staff Members & H.O.D	13/11/2023		

SUMMARY

No of Events Planned	No of Events Conducted	Percentage of Completion
35	34	97.14 %


Prepared by
Prof. R. S. Gaikwad


Co-ordinator
Prof. R. S. Gaikwad


HOD
Dr. G. D. Sonawane


Principal
Dr. D. D. Shinde





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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

ACAD-DI-04	Departmental Event Calendar	Academic Year: 2023-24
Rev : 00		
Date: 11-7-2022		Semester: EVEN

Date of Preparation: 01/12/2024

Sr. No.	Activity	Activity Details	In charge Staff	Planned Date	Conducte d date	Remarks in case of any deviation
1.	Departmental Meeting	Arrange the Meeting with HOD and discuss the Department problems	All Staff Members	08/01/2024	08/01/2024	Completed
2.	Commencement of Classes (SE, TE, BE)	Lesson plan, Practical plan, and syllabus for first unit test must be prepared before commencement of term.	All Staff Members	08/01/2024	08/01/2024	Completed
3.	HOD's address to students of SE, TE & BE	Start ODD Semester	H.O.D.	08/01/2024	08/01/2024	Completed
4.	MESA Activity	World Hindi Day	MESA Coordinator	10/01/2024	10/01/24	Completed
5.	Departmental Meeting	Arrange the Meeting with HOD and discuss the Department problems	All Staff Members	12/01/2024	12/01/24	Completed
6.	MESA Activity	National Youth Day	MESA Coordinator	12/01/2024	12/01/2024	Completed.
7.	MESA Activity	Indian Army Day	MESA Coordinator	15/01/2024	Holiday	
8.	MESA Activity	National Road Safety Week	MESA Coordinator	11/01/2023 to 17/01/2023	next month	Planned to be unavailable of guest
9.	Industrial Visit	Industrial Visit for SE/TE/BE	Staff Coordinator	15/01/2024 to 20/01/2024	23/01/24	Completed
10.	Mentor Meeting	Arrange the tutor Meeting and discuss the students their problems	Respective tutor teacher	19/01/2024	19/01/2024	Completed
11.	MESA Activity	National Girl Child Day & National Voters Day	MESA Coordinator	24 & 25/01/2024	next month	planned in next month.



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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

12.	Guest Lecture	Arrange the Guest/Expert lecture on Resume Writing, GDPI	Staff Coordinator	20/01/2024 to 30/01/2024	31/01/24	Completed
13.	Principal Meeting	Arrange the Meeting with Principal and discuss the Department problems	All Staff Members	01/02/2024	01/02/24	Completed
14.	Display of Student Attendances	Display of Student Attendances for SE/TE/BE	Class Coordinators	02/02/2024	02/02/24	Completed
15.	MESA Activity	World Cancer Day	MESA Coordinator	04/02/2024	5/2/24	Completed
16.	Departmental Meeting	Arrange the Meeting with HOD and discuss the Department problems	All Staff Members	05/02/2024	05/02/24	Completed
17.	Work Shop / FDP/ADD-ON	Arrange the ADD ON Course (Min. 30 Hrs)	Staff Coordinator	05/02/2024 to 15/02/2024	06/05/24 15/02/24 16/05/24	Completed
18.	Guest Lecture	Arrange the Guest/Expert lecture	Staff Coordinator	15/02/2024 to 20/02/2024	15/02/24	Completed
19. \	Industrial Visit	To arrange 3 Days Industrial Visit (ARAI, ST Workshop Dapodi, Railway Car Shed, Kurla, etc.)	Staff Coordinator	15/02/2024 to 20/02/2024	23/02/24	Completed
20.	MESA Activity	Shri Chhatrapati Shivaji Maharaj Jayanti	MESA Coordinator	19/02/2023	Campus Level	Completed
21.	MESA Activity	World Day of Social Justice	MESA Coordinator	20/02/2024	Sports	
22.	Mentor Meeting	Arrange the Tutor Meeting and discuss the students their problems	Respective tutor teacher	23/02/2024	8	
23.	MESA Activity	A National Level Technical Events for students	MESA Coordinator	24-02-2024 to 25-02-2024	Atma Visitor	
24.	Internal Assessment -I	Internal Assessment -I for SE/TE/BE	Staff Coordinator	26-02-2024 to 28-02-2024	2024	
25.	MESA Activity	World NGO Day	MESA Coordinator	27/02/2024	NA	
26.	Display of Student Attendances	Display Monthly attendance for SE/TE/BE	Staff Coordinator	06-03-2024	06/03/24	Completed
27.	Industrial Visit	Industrial Visit for SE/TE/BE (Blue Star, Kruger, Coca-Cola)	Staff Coordinator	11/03/2024 to 13/03/2023		





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Department of Mechanical Engineering

28.	Work Shop / FDP	Faculty Development Program for Mechanical Staff and Students	Staff Coordinator	11/03/2024 to 16/03/2024	22/4/24 FDP ON Python	Completed
29.	Atma Tech	Atma Tech 2024 for Mechanical students	Staff Coordinator	16/03/2024 to 20/03/2024	20/02 - 29/02/24	Completed
30.	Sports Week	Indoor and Outdoor Sports Events	Staff Coordinator	26/03/2024 to 31/03/2024	Conducted	
31.	Atmaviskar	Atmavishkar (Cultural Event)	Staff Coordinator	27/03/2024 to 20/04/2024	During Atmavishkar in Feb	
32.	Internal Assessment - II	Internal Assessment –II for SE/TE/BE	Staff Coordinator	15/04/2024 to 17/04/2024	15/04/24 to 17/04/24	Completed
33.	Display of IA-II Result	Display of IA-II Result for SE/TE/BE	Dept Exam Coordinator	April 2024	20/04/24	Completed
34.	Departmental meeting	Arrange the meeting with Departmental Staffs and discuss the Department problems	All Staff Members & H.O.D	18/04/2024	18/04/24	Completed
35.	Detention List	Display Detention List (Even sem)	Class Coordinator	18/04/2024	NA	Completed
36.	Conclusion of Teaching	Syllabus Coverage, IA-I, IA-II Result, Extra Lecture	All Staff Members & H.O.D	20/04/2024	20/04/2024	Completed
37.	Term Work Submission	Term Work Submission for SE/TE/BE	All Staff Members	18.04.2024 to 20.04.2024	18/04/24 to 20/04/24	Completed
38.	OR/PR Examination	Conduction of OR/PR Examination	All Staff Members	24-04-2024 to 07-05-2024	27/04/24 to 29/04/24	Completed





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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

39.	End Sem Examination	University Examination for SE/TE/BE	All Staff Members	May 2024	may to June 24/24	Completed
40.	Departmental meeting	Arrange the meeting with Principal and discuss the Department problems	All Staff Members & H.O.D	May 2024	15/05/24	Completed

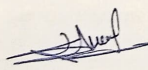
Note:- Remaining events are planned & will be completed by Dec 2024

SUMMARY

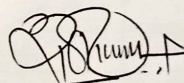
No of Events Planned	No of Events Conducted	Percentage of Completion
40	04	90:00%


Prepared by

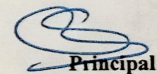
Prof. R. S. Gaikwad


Co-ordinator

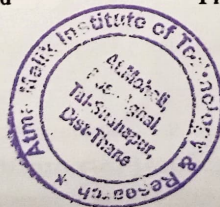
Prof. R. S. Gaikwad


HOD

Prof. U. V. Patil


Principal

Dr. D. D. Shinde





Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-06	Subject Choice	Academic Year: 2023-24
Rev : 00		Semester: <u>DDD</u>
Date: 11-7-2022		

Date: 1/07/2023

Sr. No.	Name of Faculty	Choice 1 [Year-Subject]	Choice 2 [Year-Subject]	Choice 3 [Year-Subject]	Sign of Faculty
1.	Prof. G.E. Chavan	FEA	SOM	CAMD	
2.	Dr. G. D. Sonawane	MMC	MM		
3.	Prof. U. V. Patil	VS	PLCM		
4.	Dr. Shyam Chaudhary	TD	CAMD	TE	
5.	Prof. R.S. Gaikwad	DMS	FEA	DOE	
6.	Prof. M. A. Salunke	PP	CAMD	LSCM	
7.	Prof. S. M. Patil	MCD	DDM	PP	
8.	Prof. Bijawe	EM-II			
9.	Prof. H. Sonawane	PCE			
10.	Prof. Sarvesh Mehendale	ED			



HOD



Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of

ACAD-DI-06	Subject Choice	Academic Year: 2023-24
Rev : 00		
Date: 11-7-2022		Semester: II

Date: 31/12/2023

Sr. No.	Name of Faculty	Choice 1 [Year-Subject]	Choice 2 [Year-Subject]	Choice 3 [Year-Subject]	Sign of Faculty
1.	Prof. G.E. Chavan	MD	EM	CAD/CAM	
2.	Prof. V.V. Patil	TQM	PM	—	
3.	Dr. S.K. Chaudhary	CM	PP	TM	
4.	Prof. R.S. Geikure	CAD/CAM	OPC	PE&A	
5.	Dr. Rajendran	AAJ	TM	PDD	
6.	Prof. S.M. Patil	HVAC	KOM	CM	
7.	Prof. P. Bijane	EM-IV			
8.					
9.					
10.					



HOD



Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-05	Elective Choice	Academic Year: 2022324
Rev : 00		Semester: odd
Date: 11-7-2022		Class: BE

Date: 10-7-2023

All the Students of Mechanical department are hereby informed that they have to give their Elective choice in the prescribed format with the help of following Elective Subject list.

Elective1(DLOC III)

1. Automotive Power Systems
2. Renewable Energy Systems
3. Vehicle Systems

Elective2 (DLOC IV)

1. Machinery Diagnostics
2. Vibration Controls
3. Advanced Vibration

Elective3 (ILOC I)

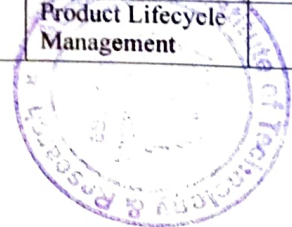
1. Product Lifecycle Management
2. Reliability Engineering
3. Cyber Security and Laws
4. Research Methodology
5. Disaster Management and Mitigation Measures
6. IPR and Patenting Energy Audit and Management
7. Digital Business Management
8. Development Engineering

Roll No.	Name of Student	Elective I	Elective II	Elective III	Student Signature
01	Aatar Jasmin Asif	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>[Signature]</i>
02	Adhikari Yadnesh Sunil	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>[Signature]</i>
03	Bhalerao Shreyas Dattatray	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>[Signature]</i>
04	Bhoir Pooja Raghunath	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>[Signature]</i>
05	Bhoir Viresh Suresh	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>[Signature]</i>
06	Bhovare Sahil Santosh	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>[Signature]</i>
07	Chaudhari Chandan Vilas	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>[Signature]</i>



Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

08	Chile Girish Rajendra	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	
09	Dalvi Nitin Pandharinath	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	
10	Dalvi Sameer Krushna	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Dalvi</i>
11	Dhodade Ishvar Shantaram	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Ishvar</i>
12	Gharat Ashish Subhash	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Git</i>
13	Gharat Manish Vishwanath	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Manish</i>
14	Gharat Ruchit Chandrakant	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Ruchit</i>
15	Jadhav Harshad Sitaram	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Harshad</i>
16	Jadhav Mrunali Vilas	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Mrunali</i>
17	Jadhav Shubham Sanjay	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Shubham</i>
18	Jadhav Suraj Balu	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Suraj</i>
19	Kalaskar Shubham Subhash	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Shubham</i>
20	Khale Sumit Suresh	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	
21	Mahale Hemlata Raghunath	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	
22	Malak Rohit Bhagwan	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	
23	Mesty Abhiraj Pramod	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	
24	Mope Pratik Ashok	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Pratik</i>
25	More Kunal Ravindra	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	
26	Muknak Suraj Subhash	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Suraj</i>
27	Pargaonkar Saksham Madhukar	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Saksham</i>
28	Patare Tejas Dattatray	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Tejas</i>
29	Patel Jagdish Ramraj	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	
30	Patil Abhijit Vitthal	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Abhijit</i>
31	Patil Bhavik Sudhakar	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Bhavik</i>
32	Patil Dahesh Bharat	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	





Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

33	Patil Nikhil Sahu	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>TS Patil</i>
34	Patil Nirag Rajendra	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>NPatil</i>
35	Patil Omkar Suresh	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>O. Patil</i>
36	Patil Prasad Kanti	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Patil</i>
37	Patil Sanket Vijay	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>S. Patil</i>
38	Patil Tejas Dilip	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Tejas</i>
39	Patil Vinit Mohan	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Vinit</i>
40	Pawar Chaitali Krushna	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Chaitali</i>
41	Prajapati Vijay Karmnath	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Vijay</i>
42	Rayat Mayuresh Eknath	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Mayuresh</i>
43	Sapat Suraj Vijay	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Suraj</i>
44	Sathe Imran Iqbal	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Imran</i>
45	Shelar Raj Nandkumar	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Shelar</i>
46	Shelke Uttam Manohar	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Uttam Shelke</i>
47	Sokande Rupesh Krishna	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>R. Sokande</i>
48	Tayade Ganesh Vasant	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Ganesh</i>
49	Thakare Shivam Tanaji	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Shivam</i>
50	Thakare Vilas Ashok	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>Vilas</i>
51	Gajakosh Vicky Anil	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>V. Gajakosh</i>

[Signature]
Class Coordinator

Prof. R. S. Gaikwad



[Signature]
HOD

Dr. G. D. Sonawane



Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-05	Elective Choice	Academic Year: 2023-24
Rev : 00		Semester: odd
Date: 11-7-2022		Class: TE

Date: 10-7-2023

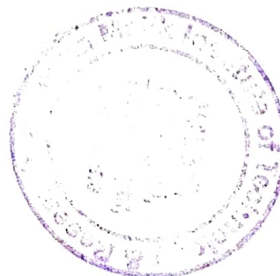
All the Students of Mechanical department are hereby informed that they have to give their Elective choice in the prescribed format with the help of following Elective Subject list.

Elective I (DLOC I)

1. Optimization Techniques
2. Design of Experiments
3. Computational Methods

Roll No.	Name of Student	Elective I	Student Signature
01	Dadhekar Sarthak Rashmikant	DOE	
02	Dhasade Rushikesh Vasudev	DOE	
03	Dupare Amol Suresh	DOE	
04	Garud Mayur Shrikant	DOE	
05	Goswami Satish Nanalal	DOE	
06	Jadhav Mayur Gurunath	DOE	
07	Jadhav Motilal Ramdas	DOE	
08	Kadam Viraj Mangesh	DOE	
09	Kushwah Deepak Ramesh	DOE	
10	Pachalkar Kailas Bharat	DOE	
11	Patil Bhavik Sunil	DOE	
12	Patil Manish Rajendra	DOE	
13	Raut Ganesh Suresh	DOE	
14	Raut Harshit Rajesh	DOE	
15	Raut Kunjan Nitendra	DOE	
16	Singh Suraj Ramsagar	DOE	

Class Coordinator
Prof. S. M. Patil



HOD
Dr. G. D. Sonawane



II Sabka Malik Atma!!
Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-05	Elective Choice	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		Class: BE

Date: 09-11-2023

All the Students of Mechanical departments are hereby informed that they have to give their Elective choice in the prescribed format with the help of following Elective Subject list.

Elective1(DLOC V)

1.Composite Materials

2.Smart Materials

3.Micro Electro Mechanical Systems

Elective2 (DLOC VI)

1.Product Design and Development

2.Design for X

3.Total Quality Management

Elective3 (ILOC II)

1.Project Management

2.Finance Management

3.Entrepreneurship Development and Management
4.Human Resource Management
5.Professional Ethics and CSR
6.Research Methodology
7.IPR and Patenting
8.Digital Business Management
9.Environmental Management

Roll No.	Name of Student	Elective I	Elective II	Elective III	Student Signature
01	Adhikari Yadnesh Sunil	CM	TQM	PM	
02	Bhoir Viresh Suresh	CM	TQM	PM	
03	Bhovare Sahil Santosh	CM	TQM	PM	
04	Dalavi Sameer Krushan	CM	TQM	EM	Sameer
05	Dalvi Nitin Pandharinath	CM	TQM	EM	Qub.
06	Dhodade Ishvar Shantaram	CM	TQM	EM	ISHR
07	Gajakosh Vicky Anil	CM	TQM	EM	Vicky
08	Gharat Asnish Subhash	CM	TQM	EM	Asnish
09	Gharat Manish Vishwnath	CM	TQM	EM	Manish
10	Gharat Ruchir Chandrakant	CM	TQM	EM	Ruchir
11	Jadhav Harshad Shantaram	CM	TQM	PM	
12	Jadhav Manurati	CM	TQM	EM	Manurati
13	Jadhav Shubham	CM	TQM	PM	
14	Jadhav Surai Balu	CM	TQM	EM	Surai



!! Sabka Malik Atma!!

Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

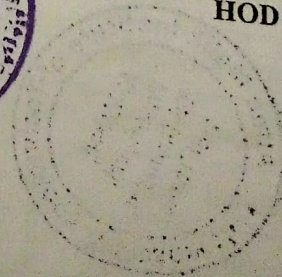
Department of Mechanical Engineering

15	Mope Pratik Ashok	CM	TQM	PM	
16	More Kunal Ravindra	CM	TQM	EM	
17	Muknak Suraj Subhash	CM	TQM	EM	
18	Patare Tejas Dattatray	CM	TQM	EM	
19	Patil Abhijeet Vitthal	CM	TQM	EM	
20	Patil Bhavik Sudhakar	EM	TQM	PM	
21	Patil Niraj Rajendra	CM	TQM	PM	
22	Patil Sanket Vijay	CM	TQM	PM	
23	Patil Tejas Dilip	CM	TQM	EM	
24	Patil Vinit Mohan	CM	TQM	EM	
25	Pawar Chaitali Krushna	CM	TQM	EM	
26	Prajapati Vijay Karmnath	CM	TQM	EM	
27	Pargaonkar Saksham M.	EM	TQM	PM	
28	Rayat Mayuresh Eknath	EM	TQM	PM	
29	Sapat Suraj Vijay	EM	TQM	PM	
30	Sathe Imran Iqbal	CM	TQM	EM	
31	Tayade Ganesh Vasant	EM	TQM	PM	
32	Thakare Shivam Tanaji	EM	TQM	PM	
33	Thakare Vilas Ashok	CM	TQM	EM	
34	Mahale Hemlata Raghunath	CM	TQM	EM	

Prof. R. S. Gaikwad
Class Coordinator



Prof. U. V. Patil
HOD





Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of

ACAD-DI-05	Elective Choice	Academic Year: 2023-24
Rev : 00		Semester: II
Date: 11-7-2022		

Date:

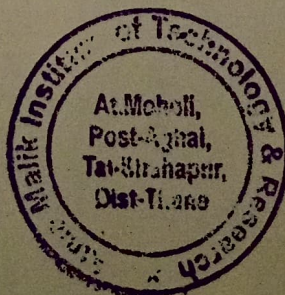
Class: TE

All the Students of TE Mechanical department are hereby informed that they have to give their Elective choice in the prescribed format with the help of following Elective Subject list.

Elective1	Elective2	Elective3
1 Press Tool Design	1	1
2 Tool Engineering	2	2
3 Metal Forming Technology	3	3

Roll No.	Name of Student	Elective I	Elective II	Elective III	Student Signature
01	Dadhekar Sarthak Rashmikant	PTD			
02	Dhasade Rushikesh Vasudev	PTD			
03	Dupare Amol Suresh	PTD			
04	Patil ^{Mayur} Kailas Bharat	PTD			
05	Patil Manish Rajendra	PTD			
06	Raut Ganesh Suresh	PTD			
07	Raut Kunjan Nitendra	PTD			
08	Sarmalkar Pawan Pundlik	PTD			
09	Singh Suraj Ramsagar	PTD			

Class Coordinator



MOD



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Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-07	Workload Distribution for ODD SEM AY 2023-24	Academic Year: 2023-24
Rev : 00		Semester: ODD
Date: 11-7-2022		

WEF: 10/07/2023

Sr. No.	Name of the faculty	Sub.	Class	Th. Div.	Th.	Pr.	Tut.	No. of batches	Net Pr. Load	Total	Grand total	Sign of Faculty
1	Dr. D. D. Shinde	MAJOR PROJECT I	BE			2		2	4	4	4	
2	Prof. G. E. Chavan	SOM	SE		3				0	3	12	
		FEA	TE		3	2		1	2	5		
		MAJOR PROJECT I	BE			2		2	4	4		
3	Dr. G. D. Sonawane	MM	SE		3				0	3	14	
		MMC	TE		3				0	3		
		MAJOR PROJECT I	BE			2		2	4	4		
		MT	SE			2		2	4	4		
4	Prof. U.V. Patil	DLOC 3(VS)	BE		3				0	3	16	
		ILOC 1 (PLCM)	BE		3				0	3		
		MAJOR PROJECT I	BE			2		2	4	4		
		Maintenance Engineering	BE			2		3	6	6		
5	Prof. R. S. Gaikwad	DOE	TE		3				0	3	17	
		DMS	BE		4	2		3	6	10		
		MAJOR PROJECT I	BE			2		2	4	4		
6	Prof. S. M. Patil	DLOC 4 (MCD)	BE		3				0	3	18	
		DOM	TE		3	2		1	2	5		
		IS	BE			2		3	6	6		
		MAJOR PROJECT I	BE			2		2	4	4		
7	Dr. Shyam Chaudhary	TE	TE		3	2		1	2	5	16	
		TD	SE		3				0	3		
		CADM	SE			4		2	8	8		
8	Prof. M. A. Salunke	PP	SE		4				0	4	11	
		LSCM	BE		3				0	3		
		MAJOR PROJECT I	BE			2		2	4	4		
9	Prof. P.S.Bijwe	EM III	SE		3		1		0	4	4	
10	Prof. H. D. Sonawane	PCE II	TE			2+2		1	4	4	4	
Total					47	86			68	116	116	

Dr. G. D. Sonawane
HOD

Prof. G. E. Chavan
Vice Principal

Dr. S.M. Munde
Academic Dean

Dr. D. D. Shinde
Principal



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Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

ACAD-DI-07	Workload Distribution for EVEN SEM AY 2023-24	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		

WEF: 08/01/2023

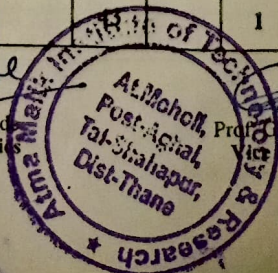
Sr. No.	Name of the faculty	Name of the Subject	Class	Th.	Pr.	Tut.	No. of batches	Net Pr. Load	Total	Grand Total	Sign of Faculty
	Dr. D. D. Shinde	Major Project II	BE		2			2	2	2	
	Dr. S. B. Chaudhary	Total Quality Management (DLOC VI)	BE	3				0	3	03	
1	Prof. U. V. Patil	Project Management (ILOC II)	BE	3				0	3	04	
		Major Project II	BE		4			4	4		
2	Dr. D. R. Rajendran	Automation and Artificial Intelligence	TE	3				0	3	10	
		Turbo Machinery	TE	3	2		1	2	5		
		Mini Project – 1B	SE		2		1	2	2		
3	Prof. G. E. Chavan	Fluid Mechanics	SE	3				0	3	11	
		Machine Design	TE	4	2		1	2	6		
		Major Project II	BE		2			2	2		
4	Dr. S. K. Chaudhary	Composite Materials (DLOC V)	BE	3				0	3	16	
		Press Tool Design (DLOC II)	TE	3				0	3		
		CNC and 3-D Printing	SE		4		1	4	4		
		Product Design and Development	BE		2		2	4	4		
		Mini Project – 1B	SE		2		1	2	2		
5	Prof. R. S. Gaikwad	Operations Planning and Control	BE	3				0	3	14	
		CAD/CAM	SE	3				0	3		
		Measurements and Automation	TE		4		1	4	4		
		Mini Project – 2 B	TE		4			4	4		
6	Prof. S. M. Patil	HVAC & R	TE	3	2		1	2	5	14	
		Kinematics of Machinery	SE	3	2		1	2	5		
		Major Project II	BE		4			4	4		
7	Prof. P. S. Bijwe	EM IV	SE	3		1		0	4	4	
8	EXTC Faculty	Industrial Electronics	SE	3	2		1	2	5	5	
9	EXTC Faculty	Laboratory based on IoT	BE		2		2	4	4	4	
10	COMP Faculty	Python Programming	SE		2		1	2	2	2	
Total						1		48	92	92	

Prof. U. V. Patil
HOD

Dr. S. M. Mund
Dean Academics

Prof. G. E. Chavan
Principal

Dr. D. D. Shinde
Principal





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Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-08	Master Time Table	Academic Year 2023-24
Rev 00		Sem ODD
Date 11-07-2022		

Day	SEM	9:45-10:45	10:45-11:45	11:45-12:15	12:15-12:45	12:45-1:45	1:45-2:45	2:45-2:55	2:55-3:55	3:55-4:55
MON	III	MT PR A1 (GS)/ MINI PROJECT-1 A A2		Meditation	Lunch Break	PP (MS)	MM (GS)	Short Recess	TD (SC)	SOM (GC)
	V	DOM (SP)	DOE (RG)			TE (SC)	FEA (GC)		MINI PROJECT 2 A	
	VII	PLCM (UP)	LSCM (MP)			DMS PR A1 (RG)/ ME PR A2 (UP)/ IS PR A3 (SP)			MCD (SP)	DMS (RG)
TUE	III	CAMD A1 (SC)/ MSP A2 (WF)				MM (GS)	TD (SC)		PP (MS)	SOM (GC)
	V	DOE (RG)	DOM (SP)			FEA PR (GC)			MMC (GS)	TE (SC)
	VII	MCD (SP)	PLCM (UP)			DMS (RG)	DMS (RG)		DMS PR A2 (RG)/ ME PR A3 (UP)/ IS PR A1 (SP)	
WED	III	TD (SC)	EM III (PB)			PP (MS)	EM III TUT (PB)		MT PR A2 (GS) / MINI PROJECT 1 A A1	
	V	PCE II (HS)	MMC (GS)			DOM PR (SP)			FEA (GC)	TE (SC)
	VII	MAJOR PROJECT I				DMS (RG)	LSCM (MP)		MCD (SP)	PLCM (UP)
THU	III	PP (MS)	EM III (PB)			CAMD A2 (SC)/ MSP A1 (WF)			MM (GS)	SOM (GC)
	V	PCE II (HS)	FEA (GC)			DOM (SP)	DOE (RG)		TE PR (SC)	
	VII	DMS PR A3 (RG)/ ME PR A1 (UP)/ IS PR A2 (SP)				VS (UP)	VS (UP)		LSCM (MP)	Library
FRI	III	EM III (PB)	LIB / MENTOR MEETING			CAMD A1 (SC)/ MSP A2 (WF)			CAMD A2 (SC)/ MSP A1 (WF)	
	V	MMC (GS)	LIB / MENTOR MEETING			PCE II PR (HS)			MINI PROJECT 2 A	
	VII	VS (UP)	LIB / MENTOR MEETING			MAJOR PROJECT I			MAJOR PROJECT I	

Abbreviation-Subjects:	Staff Name	Abbreviation-Subjects:	Staff Name
SE MECH		BE MECH	
EM III-Engineering Mathematics III	Prof. Prashant Bijwe	DMS-Design of Mechanical Systems	Prof. R. S. Gaikwad
SOM- Strength of Materials	Prof. G. E. Chavan	LSCM- Logistics Supply Chain Management	Prof. M. B. Patil
PP- Production Process	Prof. M. A. Salunke	DLOC 3 (VS)- Vehicle System	Prof. U. V. Patil
MM- Materials and Metallurgy	Dr. G. D. Sonawane	DLOC 4 (MCD)- Machinery Diagnostics	Prof. S. M. Patil
TD- Thermodynamics	Dr. S. K. Chaudhary	ILOC 1 (PLCM)- Product Life Cycle Management	Prof. U. V. Patil
MT- Materials Testing	Dr. G. D. Sonawane	ME- Maintenance Engineering	Prof. U. V. Patil
CAMD- CAD –Modeling	Dr. S. K. Chaudhary	IS- Industrial Skills	Prof. S. M. Patil
MSP- Machine Shop Practice	Workshop Faculty/Instructor	MAJOR PROJECT II	All Faculty
MP I A- Mini Project I A	Learner		
TE MECH			
MMC-Mechanical Measurements and Controls	Dr. G. D. Sonawane		
TE- Thermal Engineering	Dr. S. K. Chaudhary		
DOM- Dynamics of Machinery	Prof. S. M. Patil		
FEA- Finite Element Analysis	Prof. G. E. Chavan		
DOE- Design of Experiments	Prof. R. S. Gaikwad		
PCE -II-Professional communication and ethics –II	Prof. Hemant Sonawane		
Mini Project 2 A	Learner		

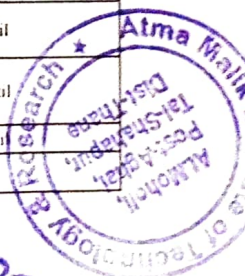
Prof. S. M. Patil
Time Table Incharge

Dr. G. D. Sonawane
HOD

Dr. S. M. Munde
Academic Dean

Prof. G. E. Chavan
Vice Principal

Dr. D. D. Shinde
Principal





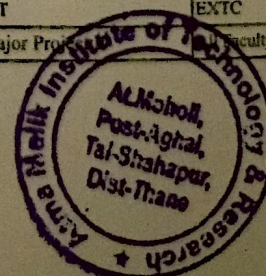
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Department of Mechanical Engineering

ACAD-DI-08	Master Time Table	Academic Year: 2023-24
Rev : 00		
Date: 11-07-2022		Semester: EVEN

Day	Sem	9:45-10:45	10:45:11:45	11:45-12:15	12:15-12:45	12:45-1:45	1:45-2:45	2:45-2:55	2:55-3:55	3:55-4:55						
MON	IV	CNC & 3D PRINTING PR (SC)		Meditation	Lunch Break	KOM (SP)	CAD/CAM (RG)	Short Break	IE (EX)	EM IV (PB)						
	VI	HVAC (SP)	AAI (DR)			MD PR (GC)			PTD (SC)	MD (GC)						
	VIII	TQM (UP)	OPC (RG)			PM (UP)	Library/Skill Training		Major Project II							
TUE	IV	EM IV (PB)	IE (EX)			MINI PROJECT 1B(DR)			CAD/CAM (RG)	FM (GC)						
	VI	M & A PR (RG)				MD (GC)	HVAC (SP)		PTD (SC)	TM (DR)						
	VIII	TQM (UP)	CM (SC)			PM (UP)	OPC (RG)		Major Project II							
WED	IV	CNC & 3D PRINTING PR (SC)				Meditation	Lunch Break		EM IV (PB)	IE (EX)	Short Break	KOM (SP)	FM (GC)			
	VI	HVAC (SP)	TM (DR)						HVAC PR (SP)			MINI PROJECT 2B(RG)				
	VIII	OPC (RG)	TQM (UP)						PM (UP)	CM (SC)		IOT PR (A2)(EX) PDD PR (A1)(SC)				
THU	IV	KOM (SP)	FM (GC)						CAD/CAM (RG)	EM IV TUT (PB)		KOM PR (SP)				
	VI	TM PR (DR)							PTD (SC)	MD (GC)		AAI (DR)	AAI (DR)			
	VIII	CM (SC)	Library/Skill Training						Major Project II			IOT PR (A1)(EX) PDD PR (A2)(SC)				
FRI	IV	IE PR (EX)							Meditation	Lunch Break		MINI PROJECT 1B(SC)		Short Break	PYTHON PR (XYZ)	
	VI	MD (GC)	TM (DR)									M & A PR (RG)			MINI PROJECT 2B(RG)	
	VIII	Major Project II										Major Project II			Major Project II	

Abbreviation-Subjects:	Staff Name	Abbreviation-Subjects:	Staff Name
SE MECH		BE MECH	
EM-IV	Prof. Prashant Bijwe	OPC	Prof. R. S. Gaikwad
FM	Prof. G. E. Chavan	DLOC 5 (CM)	Dr. S. K. Chaudhary
KOM	Prof. S. M. Patil	DLOC 6 (TQM)	Prof. U. V. Patil
CAD/CAM	Prof. R. S. Gaikwad	ILOC 2 (PM)	Prof. U. V. Patil
IE	EXTC	PDD	Dr. S. K. Chaudhary
PYTHON	XYZ	IOT	EXTC
CNC & 3D PRINTING	Dr. S. K. Chaudhary	Major Project II	Faculty

TE MECH	
MD	Prof. G. E. Chavan
TM	Dr. D. R. Rajendran
HVACR	Prof. S. M. Patil
AAI	Dr. D. R. Rajendran
DLOC-2 (PTD)	Dr. S. K. Chaudhary
M & A	Prof. R. S. Gaikwad



Prof. S. M. Patil
Time Table Incharge

Prof. U. V. Patil
HOD

Dr. S. M. Munde
Dean Academics

Prof. G. E. Chavan
Vice Principal

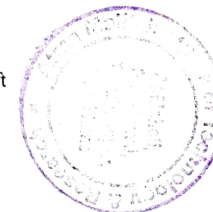
Dr. D. D. Shinde
Principal



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ACAD-DI-13	Course Plan	Academic Year: 2023-24
Rev : 00		Semester: ODD
Date: 11-7-2022		

Name of the staff	: Prof. Rupali S. Gaikwad
Subject with code	: Design of Mechanical System (MEC701)
Course	: BE
Semester/Branch	: VII /MECHANICAL
Academic Year	: 2023-24
<u>Prerequisites</u>	: Machine Design, CAD Modelling
<u>Objectives</u>	: 1. To familiarize with the concept of system and methodology of system design. 2. To study system design of various systems such as Gear box, snatch block, belt conveyors, I.C. engine system and pumps
<u>Outcomes</u>	: Upon successful completion of this course, the learner will be able to ... 1. Apply the concept of system design. 2. Design of Gear box. 3. Design of hoisting mechanism of EOT crane, 4. Design belt conveyor systems 5. Design engine components such as cylinder, piston, connecting rod and crankshaft 6. Design pumps for the given applications





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TEXT BOOKS:

- REFERENCE BOOKS:**
1. Design of machine Elements V.B Bhandari
 2. Design Data-P.S.G.College of technology.
 3. Mechanical Engineering Design Shigley J.E.
 4. Engineering design Dieter G.E.

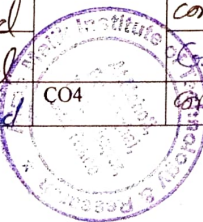
Lesson Plan:

Module/Chapter Name	Lecture No.	Topic Planned	Planned Date	Conducted Date	Delivery Method	CO Mapped	Remark
Introduction/Chapter 1	1	Methodology of Design	10/7/23	10/7/23	Chalk and Board/PPT's/Video	CO1	Completed
	2	Morphology of design	11/7/23	11/7/23	Chalk and Board		Completed
	3	Optimum design	11/7/23	11/7/23	Chalk and Board		Completed
	4	System concepts in design.	12/7/23	12/7/23	Chalk and Board		Completed
Design of Transmission Gear Box: /Chapter 2	5	Introduction Transmission Gear Box	17/7/23	17/7/23	Chalk and Board		Completed
	6	Single stage gearbox	18/7/23	18/7/23	Chalk and Board		Completed
	7	Two stage Gearbox	18/7/23	18/7/23	Chalk and Board		Completed
	8	fixed ratio consisting of Design of spur	19/7/23	19/7/23	Chalk and Board		Completed
	9	Design of helical gear	24/7/23	24/7/23	Chalk and Board		Completed
	10	Design of bevel gear	25/7/23	25/7/23	Chalk and Board		Completed
	11	worm and worm-	26/7/23	26/7/23	Chalk and Board		



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		wheel gear pairs,	8	-	chalk and board		
	12	worm and worm-wheel gear pairs,	31/7/23	31/7/23	chalk and board	CO2	completed
	13	Gear box housing layout	1/08/23	01/08/23	chalk & Board		Completed
	14	Gear box housing layout	1/08/23	02/08/23	chalk & Board		completed
	15	Gearbox housing design	2/08/23	02/08/23	chalk & Board		Completed
	16	Gearbox housing design	3/08/23	03/08/23	Smart Board		Completed
Design of Hoisting Mechanism/Chapter 3	17	Design of Snatch Block Assembly	07/08/23	07/08/23	Smart Board	CO3	completed
	18	Rope Selection	08/08/23	08/08/23	chalk & Board		completed
	19	Design of Sheave	09/08/23	09/08/23	chalk & Board		completed
	20	Design of Hook	14/08/23	14/08/23	chalk & Board		Completed
	21	Bearing for hook	16/08/23	16/08/23	Smart Board		Ex+KCI
	22	cross piece	21/08/23	16/08/23	Smart Board		21 visit at matashree V.
	23	Axle for sheave	22/08/23	22/08/23	Smart Board		Completed
	24	shackle plate,	22/08/23	22/08/23	Smart Board		Completed
	25	Design of rope drum	23/08/23	23/08/23	Smart Board		Completed
	26	selection motor with transmission system	28/08/23	29/08/23	chalk Board		Guest Lecture Fire Safety
Design of Belt	27	Power requirement	29/08/23	29/08/2023	chalk & Board	CO4	Completed





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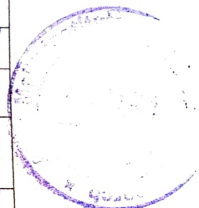
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Conveyors/ Chapter 4	28	selection of belt	29/08/23	5/09/23	Chalk & Board	COS	Completed
	29	design of tension take up unit	04/09/23	5/09/23	Chalk & Board		Completed
	30	idler pulley	05/09/23	5/9/23	Chalk & Board		Completed
Engine Design (Petrol and Diesel)/ Chapter 5	31	Petrol Engine design	05/09/23	6/9/23	Chalk & Board	COS	Completed
	32	Cylinder	06/09/23	11/09/23	Chalk & Board		Completed
	33	Piston with pins	11/09/23	12/09/23	Chalk & Board		Completed
	34	Piston with ring	12/09/23	12/09/23	Chalk & Board		Completed
	35	Connecting rod	12/09/23	12/09/23	Chalk & Board		PR Start
	36	Crank shaft with bearing	13/09/23	15/09/23	Chalk & Board		UT-1 (13-15 Sept)
	37	Diesel Engine-cylinder	18/09/23	18/09/23	Chalk & Board		Completed
	38	Piston with pins and ring	25/09/23	25/09/23	Chalk & Board		Completed
	39	Connecting rod	26/09/23	26/09/23	Chalk & Board		Completed
	40	Crank shaft with bearing	26/09/23	26/09/23	Chalk & Board		Completed
	41	Gear pump- Motor selection	27/09/23	27/09/23	Chalk & Board	CO6	Completed
Design of Pump/ Chapter 6	42	Gear design	3/10/23	4/10/23	Chalk & Board		Completed
	43	Shaft design and bearing selection	3/10/23	4/10/23	Chalk Board		Extra lecture

UT-1 (13-15 Sept)
Paper postponed
16 Sept





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	44	4 Casing and bolt design	4/10/23	4/10/23	Smart Board		completed
	45	Sizing of design of suction and delivery pipe	9/10/23	9/10/23	Smart Board		Completed
	46	Centrifugal Pump-Suction and Delivery pipe	10/10/23	10/10/23	Smart Board		Completed
	47	Design of Impeller, Impeller shaft	10/10/23	10/10/23	Smart Board		completed
	48	Design of Volute Casing	11/10/23	11/10/23	Smart Board		completed

Content Beyond
Syllabus

49

Webinar on
CRM

14/10/23 | 1

Subject in charge

Academic Monitoring Committee

HOD



Principal

Principal



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ACAD-DI-14 A	Practical / Lab Plan	Academic Year: 2023-24
Rev : 00		Semester: DVB
Date: 11-7-2022		

Course Code: MEL701			Course Name: Design of Mechanical System Lab			Semester: VII	
Name of Faculty: Prof. Rupali Gaikwad						Batch: - A1	
Ex p. No	Name of Experiment	Equipment' s/ Software required	Planned Hrs.	Planned Dates	Date of Performance	Date of Assessment	Remark
1	2D drawing of gear box component using AutoCAD Software/ <i>Belt conveyor</i>	Auto CAD	2	10/7/23	17/7/23	7/8/23	completed
2	Assembly of Radial Engine using Catia Software	Catia V5	2	17/7/23	7/8/23	14/8/23	completed
3	<i>Detailed Drawing of centrifugal pump</i>	<i>Drawing Sheet</i>	2	7/8/23	14/8/23	4/9/23	completed
4	<i>Additional course- Excel/ JAVA etc</i>	<i>Excel, JAVA</i>	2	14/8/23	4/9/23	11/9/23	completed

Name & Signature of Subject In-charge

Prof. R.S. Gaikwad



Name & Signature of HOD

[Signature]



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ACAD-DI-13	Course Plan	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		

Name of the staff : Ms. Sonali Patil

Subject with code : Heating, Ventilation, Air conditioning and Refrigeration (MEC603)

Course : TE Mechanical

Semester/Branch : VI/ Mechanical

Academic Year : 2023-24

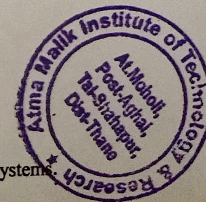
Prerequisites : Thermodynamics, Heat Transfer

Objectives

- :
1. Learning the fundamental principles and different methods of refrigeration and air conditioning to study functioning of motion and power transmission machine elements
 2. Study of various refrigeration cycles and evaluate performance of each cycle.
 3. Study of components of refrigeration and air-conditioning systems the along with applications

Outcomes

- :
1. Illustrate the fundamental principles and applications of refrigeration and air conditioning systems.
 2. Identify various HVAC&R components
 3. Evaluate performance of various refrigeration systems.
 4. Estimate cooling and heating loads for an air conditioning system.
 5. Select air handling unit & design air distribution system.
 6. Apply the knowledge of HVAC for the sustainable development of refrigeration and air conditioning systems.





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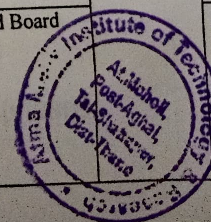
TEXT BOOKS:

REFERENCE BOOKS:

1. Refrigeration and Air Conditioning by C.P.Arora, McGraw Hill education (India) (P) limited, New Delhi
2. Principles of Refrigeration by Roy J. Dossat, Pearson education, New Delhi
3. Refrigeration and Air Conditioning by Manohar Prasad, New age international (P) limited, New Delhi
4. Refrigeration and Air Conditioning by S.C.Arora and S.Domkundwar, Dhanpatrai and sons, Delhi
5. Khurmi R.S. and Gupta J.K., Refrigeration and Air conditioning, Eurasia Publishing House Pvt. Ltd, New Delhi
6. ISHRAE Air Conditioning Handbook
7. ISHRAE Refrigeration Handbook
8. ASHRAE Handbook of Fundamentals
9. ASHRAE Handbook of Equipment
10. ASHRAE Handbook of System

Lesson Plan:

Module/Chapter Name	Lecture No.	Topic Planned	Planned Date	Conducted Date	Delivery Method	CO Mapped	Remark
1 Introduction to HVACR	1.	Basic Knowledge: Carnot refrigerator, Carnot heat pump, Carnot coefficient of performance	08/01/24	08/01/24	Chalk and Board		Completed.
	2.	Reversed Carnot cycle and its limitation, Effect of temperature and pressure on COP of the cycle	09/01/24	09/01/24	Chalk and Board		Completed
	3.	Refrigerants: Classification, Designation, Selection of refrigerant, Physical and chemical properties of refrigerants Secondary refrigerants	10/01/24	10/01/24	Chalk and Board		Completed.





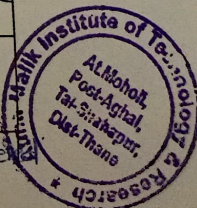
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	4.	Air Refrigeration System: Bell Coleman cycle, Necessity of air cooling, Factors considered for the selection of air refrigeration system	15/01/2024	16/01/2024	Chalk and Board	CO1	Completed Extra lecture ↓
	5.	Types of air refrigeration system with schematic and T-S diagram	16/01/2024	10/01/2024	Chalk and Board		Completed
	6.	Numerical based on simple and bootstrap air refrigeration system	17/01/2024	16/01/2024	Chalk and Board		Completed.
2 Vapour Compression & Absorption Refrigeration System	7.	Simple system on P-h and T-s diagrams, analysis of the simple cycle	22/01/2024	17/01/2024	Chalk and Board	CO2	Completed
	8.	factors affecting the performance of the cycle, actual cycle	23/01/2024	19/01/2024	Chalk and Board		Completed.
	9.	Numerical based on using P-h chart and refrigerant table	24/01/2024	31/01/2024	Chalk and Board		Completed.
	10.	Simple and practical vapour absorption system, Refrigerant-adsorbent properties	29/01/2024	05/02/2024	Chalk and Board		Completed
	11.	COP of ideal vapour absorption system, Domestic Electrolux refrigerator, Lithium bromide absorption system	30/01/2024	05/02/2024	Chalk and Board		↑ Extra lecture ↓
	12.	: performance, Primary energy ratio, Energy efficiency Introduction, Coefficient of ratio	31/01/2024	05/02/2024	Chalk and Board		
	13.	Heating season performance factor	05/02/2024	06/02/2024	Chalk and Board		Completed





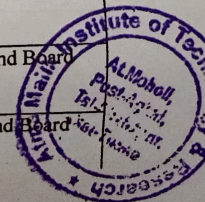
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3 Psychrometry: of Air Conditioning Processes		Seasonal energy efficiency ratio, Classification of heat pump					
	14.	Vapour compression heat pump systems Heat pump application in an industry	06/02/2024	07/02/2024	Chalk and Board		Completed.
	15.	Thermal Comfort Conditions: Selection of inside design conditions, thermal comfort, heat balance equation for a human being	07/02/2024	12/02/2024	Chalk and Board		completed.
	16.	factors affecting thermal comfort, Effective temperature, comfort chart	12/02/2024	13/02/2024	Chalk and Board		completed
	17.	and factors governing effective temperature, selection of outside design conditions	13/02/2024	14/02/2024	Chalk and Board	CO3	Completed
	18.	Psychrometry : of Air Conditioning Processes Psychrometry properties, relations and processes	14/02/2024	20/02/2024	Chalk and Board		Completed
	19.	Adiabatic air mixing , Psychrometric chart, RSHP, GSHP, ERSHP, Bypass factor	20/02/2024	21/02/2024	Chalk and Board		Completed
	20.	Apparatus dew point, Numerical Based on psychrometric chart and	21/02/2024	23/02/2024	Chalk and Board		Completed.
	21.	Classification of air conditioning system, relations	04/	18/03/2024	Chalk and Board		late due to
	22.	Cooling Load Estimation : ,Introduction, Components of cooling load Different		12/03/2024	Chalk and Board		Atmavi shkar.24.





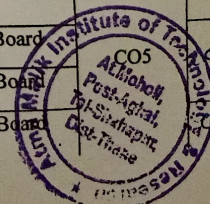
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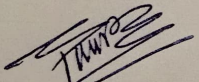
		heat sources , Various load Estimation	04/03/24	04/03/24		UT-I
	23.	Design of air conditioning system	05/03/24	12/03/24	Chalk and Board	
	24.	Building survey and economic aspect used in design	06/03/24	18/03/24	Chalk and Board	
4 Air Distribution System	25.	Duct: Classification of ducts, duct material, pressure in ducts ,Flow through duct	11/03/24	19/03/24	Chalk and Board	completed
	26.	pressure losses in duct ,Air flow through simple duct system	12/03/24	20/03/24	Chalk and Board	completed
	27.	Equivalent diameter, Methods of duct system design	13/03/24	26/03/24	Chalk and Board	completed
	28.	Air Handling Unit : Fan coil unit	18/03/24	24/03/24	Chalk and Board	extra lecture.
	29.	Types of fans used air conditioning Introduction applications	19/03/24	28/03/24	Chalk and Board	Extra
	30.	Fan laws ,Filters, supply and return grills, Sensors	20/03/24	29/03/24	Chalk and Board	Extra
5 HVAC & R Components	31.	Working of reciprocating, screw and scroll compressors	26/03/24	01/04/24	Chalk and Board	completed
	32.	working of air cooled, and water cooled and evaporative condensers	27/03/24	02/04/24	Chalk and Board	completed
	33.	Working of DX, Flooded	01/04/24	03/04/24	Chalk and Board	completed
	34.	Forced feed evaporators	02/04/24	04/04/24	Chalk and Board	completed
	35.	Expansion devices Capillary tube	03/04/24	08/04/24	Chalk and Board	completed

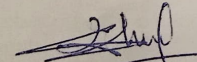




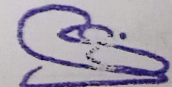
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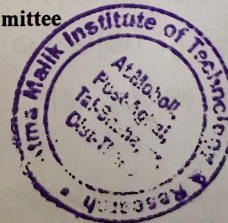
6 Application of HVAC&R	36.	TXV, EXV, Type of insulation materials	08/04/24	10/04/24	Chalk and Board		completed
	37.	Ice plant, Food storage plants, dairy and food processing plants, freeze drying	10/04/24	11/04/24	Chalk and Board		completed
	38.	A/c in textile, Printing pharmaceutical industry and Hospitals	15/04/24	12/04/24	Chalk and Board	CO6	completed
	39.	Cold chain Technology, Transport air conditioning, Solar refrigeration.	22/04/24	12/04/24	Chalk and Board		completed.


Prof. S. M. Patil
Subject in charge


Academic Monitoring Committee


Prof. U. V. Patil
HOD


Dr. D. D. Shinde
Principal



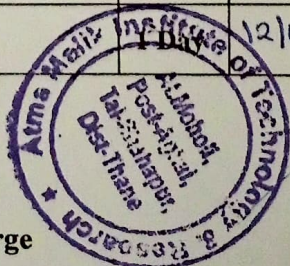


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Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-14 A	Practical / Lab Plan	Academic Year: 2023-24
Rev : 00		Semester: Even
Date: 11-7-2022		

Course Code: MEL603			Course Name: HVAC Lab			Semester: VI	
Name of Faculty: Prof. S. M. Patil						Batch:-A1	
Exp No.	Name of Experiment	Equipment's/ Software required	Planned Hrs.	Planned Date	Date of Performance	Date of Assessment	Remark
1	Study and performance on simple vapour compression test rig	Simple Vapour Compression Test Rig	2	10/01/24	17/01/24 31/01/24	07/02/24	Delayed due to syllabus completion.
2	Study and performance of heat pump test rig	Heat Pump Test Rig	2	17/01/24	07/02/24	14/02/24	completed.
3	Trial on Vapour absorption refrigeration test rig.	Vapour Absorption Refrigeration Test Rig	2	24/01/24	14/02/24 13/03/24	13/03/24	Atma Vishwakarma 2024-25 unit test-I
4	Performance analysis on water cooler system	Water Cooler Apparatus	2	31/01/24	20/03/24	27/03/24	conducted.
5	Study and performance of cooling tower based on the cooling load and approach to wet bulb temperature	Cooling Tower	2	07/02/24	27/03/24	03/04/24	conducted
6	Calculate cooling load of a confined space.	-	2	14/02/24	03/04/24	10/04/24	conducted.
7	Case studies through Seminar Poster Presentation 1. Chiller unit 2. Building Management system (Introduction) 3. Effect on Ozone depletion and Global warming, 4. Alternative Refrigerants. 5. Refrigerant Different Protocols used in 6. Variable refrigerant flow technology & its smart control		2	21/02/24	10/04/24	18/04/24	conducted
8	Industrial visit on any HVAC & R plant			12/04/24	12/04/24	12/04/24	conducted.

Prof. S. M. Patil
Name & Signature of Subject Incharge



Prof. U. V. Patil
Name & Signature of HOD



ACAD-DI-38	List of CO-PO-PSO	Academic Year: 2023-24
Rev : 00		Semester: ODD
Date: 11-7-2022		

Date: 10/7/23

NOTE – CO may vary as per Subject Requirement**Subject Name – Design of Mechanical System (MEC701)****Semester – 7th****Class / Scheme – BE MECH/ Rev 2019 (C scheme)**

The following Program Outcomes (POs) and Program Specific Outcome (PSOs) statements are considered to setup correlation with individual Courses Outcomes (COs).

PO	Engineering Graduates will be able to:
PO1	Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems.
PO2	Problem Analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling to complex engineering activities, with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

Program Specific Outcomes (PSOs)

At the time of graduation students should be able to do

PSO	At the time of graduation students should be able to do;
PSO1	Identify and Analyse problems in the field of Mechanical engineering including Design, Thermal and Manufacturing and develop appropriate solutions using modern tools
PSO2	Apply acquired professional skills, project management abilities and hands on experience in mechanical engineering and allied areas.

Course Outcomes: On completion of this course, the successful students should be able to:

SUBJECT: Design of Mechanical System (MEC701)

CO	Statement
CO1	Apply the concept of system design.
CO2	Select appropriate gears for power transmission on the basis of given load and speed.
CO3	Design material handling systems such as hoisting mechanism of EOT crane,
CO4	Design belt conveyor systems.
CO5	Design engine components such as cylinder, piston, connecting rod and crankshaft.
CO6	Design pumps for the given applications.

SUBJECT: Design of Mechanical System Lab (MEL 701)

CO	Statement
CO1	Apply the concept of system design.
CO2	Design of Gear box.
CO3	Design of hoisting mechanism of EOT crane,
CO4	Design belt conveyor systems
CO5	Design engine components such as cylinder, piston, connecting rod and crankshaft
CO6	Design pumps for the given applications


Subject In charge


Dept. Academic Coordinator


HOD





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Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-39	CO-PO-PSO Mapping Sheet	Academic Year: 2023-24
Rev : 00		Semester: ODD
Date: 11-7-2022		

Date: 01/7/23

NOTE – CO-PO-PSO mapping may vary as per Subject Requirement

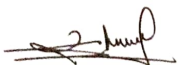
Subject Name – Design of Mechanical System (MEC701)

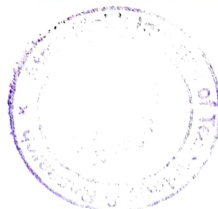
Semester – 7th

Class / Scheme – BE MECH/ Rev 2019 (C scheme)

Mapping between Course outcomes (COs) and the Program Outcomes (POs) and Program Specific outcomes (PSOs) is as in tables below;

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2
CO1	3	1	1		2				1		1	1	1	
CO2	2	1	2		2								2	1
CO3	2	2	2		2	1	1		1		2	1	1	2
CO4	2	2	2		2	1	1	1	1		2	1	1	2
CO5	2	3	3	3	2	3	3		1	1	1	1	1	1
CO6	3	2	3	2	2	2	1	1	2	2			3	2


Subject In charge




Dept. Academic Coordinator


HOD



II Sabka Malik Atma II
Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-39	CO-PO-PSO Mapping Sheet	Academic Year: 2023-24
Rev : 00		Semester: ODD
Date: 11-7-2022		Date: 10/7/23

NOTE – CO-PO-PSO mapping may vary as per Subject Requirement

Subject Name – Design of Mechanical System Lab (MEL701)

Semester – 7th

Class / Scheme – BE MECH/ Rev 2019 (C scheme)

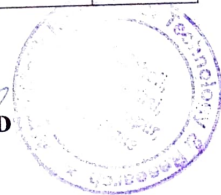
Mapping between Course outcomes (COs) and the Program Outcomes (POs) and Program Specific outcomes (PSOs) is as in tables below;

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2
CO1	3	1	1		2				1		1	1	1	
CO2	2	1	2		2								2	1
CO3	2	2	2		2	1	1		1		2	1	1	2
CO4	2	2	2		2	1	1	1	1		2	1	1	2
CO5	2	3	3	3	2	3	3		1	1	1	1	1	1
CO6	3	2	3	2	2	2	1	1	2	2			3	2


Subject In charge


Dept. Academic Coordinator


HOD





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Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-38	List of CO-PO-PSO	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		

Date: 03/01/2024

NOTE – CO may vary as per Subject Requirement

Subject Name – Heating, Ventilation, Air Conditioning and Refrigeration (MEC603)
Semester – 6th

Class / Scheme – TE MECH/ Rev 2019 (C scheme)

The following Program Outcomes (POs) and Program Specific Outcome (PSOs) statements are considered to setup correlation with individual Courses Outcomes (COs).

Engineering Graduates will be able to:

Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems.

Problem Analysis: Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.

Conduct investigations of complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling to complex engineering activities, with an understanding of the limitations.

The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

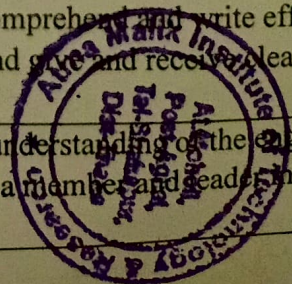
Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings

Communication: Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.





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Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

At the time of graduation students should be able to do

PS O	At the time of graduation students should be able to do;
PS O1	Identify and Analyse problems in the field of Mechanical engineering including Design, Thermal and Manufacturing and develop appropriate solutions using modern tools.
PS O2	Apply acquired professional skills, project management abilities and hands on experience in mechanical engineering and allied areas.

Course Outcomes: On completion of this course, the successful students should be able to:
SUBJECT: Heating, Ventilation, Air Conditioning and Refrigeration (MEC603)

C O	Statement
C O1	Illustrate the fundamental principles and applications of refrigeration and air conditioning Systems.
C O2	Identify various HVAC&R components.
C O3	Evaluate performance of various refrigeration systems.
CO4	Estimate cooling and heating loads for an air conditioning system.
CO5	Select air handling unit & design air distribution system.
CO6	Apply the knowledge of HVAC for the sustainable development of refrigeration and air conditioning systems.

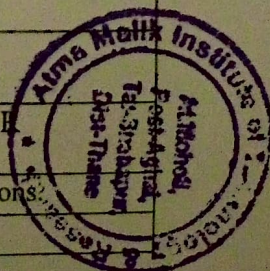
SUBJECT: Heating, Ventilation, Air Conditioning and Refrigeration (MEL603)

C O	Statement
C O1	Aware of the roles and ethics of HVAC & R engineers in related industries.
C O2	Present the impact of professional engineering solutions in societal and environmental contexts.
C O3	Evaluate performance of HVAC&R systems
CO4	Develop awareness of the engineering and technological aspects in the HVAC&R industries.
CO5	Communicate effectively through the preparation of reports and practical presentations.
CO6	Analyse of HVAC&R in various applications.

Subject In-charge

Dept. Academic Coordinator

HOD



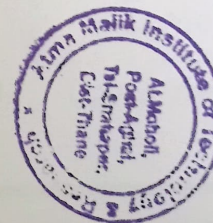
Date: 03/01/2024

Mapping between Course outcomes (COs) and the Program Outcomes (POs) and Program Specific outcomes (PSOs) is as in tables below;

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
CO1	3												1	1
CO2	2	1											2	1
CO3	2	2											2	2
CO4	2	1	1										2	2
CO5	2	1	2										1	1
CO6	3	1	1			1	2						1	3

Subject In charge


Dept. Academic Coordinator



HOD

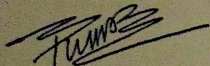
Subject Name – Heating, Ventilation, Air Conditioning and Refrigeration (MEL603)

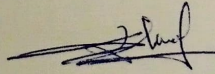
Semester – 6th

Class / Scheme – TE MECH/ Rev 2019 (C scheme)

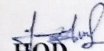
Mapping between Course outcomes (COs) and the Program Outcomes (POs) and Program Specific outcomes (PSOs) is as in tables below;

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
CO1	2							1					1	
CO2	2				1	2	2						1	2
CO3	2	1	1	1									2	1
CO4	2	1				1	1							2
CO5	2									2			1	1
CO6	2	1			1	1							2	1


Subject In charge


Dept. Academic Coordinator




HOD



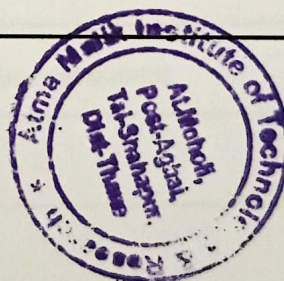
ATMA MALIK INSTITUTE OF TECHNOLOGY AND RESEARCH (AMRIT)

Mohili-Aghai, Shahapur, Thane, Maharashtra, India. Pincode: 421603
Contact: +91 7720012139 / +91 9552773875, info@vishwatmakengg.in

1.1.1. B: Curriculum Delivery

The Institution ensures effective curriculum delivery through a well-planned and documented process. The index of documents along with the case study of department of Mechanical Engineering is elaborated below.

Sr. No.	Description
A.	Weekly and Monthly monitoring
C.	Content beyond Syllabus
D.	Use of ICT tools
E.	Guest and Expert lectures





"Sabka Malik Atma"
Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-15 B
Rev : 00
Date: 11.07.2022
Department:

Consolidated Academic monitoring report
Mechanical Engineering

Academic Year: 2023 -24
Semester: ODD
Date of Preparation: 31.10.2023

Sr. No	Class	Name of the subject	Name of the Faculty	No. of Lectures planned	No. of Lectures conducted	Extra lectures conducted	No. of Practical planned	No. of Practical conducted	% syllabus covered		Sign
									Theory	Practical	
1	SE	Engineering Mathematics-III	Prof. Prashant Bijwe	39	40	1	5	5	100%	100%	PR
2		Strength of Materials	Prof. G. E. Chavan	40	40	NA	NA	NA	100%	NA	PR
3		Production Processes	Prof. M. A. Salunke	52	52	NA	NA	NA	100%	NA	F-2/24
4		Materials and Metallurgy	Dr. G. D. Sonawane	39	36	NA	NA	NA	92%	NA	Extra Lectures Faculty Left
5		Thermodynamics	Dr. S. K. Chaudhary	39	39	NA	NA	NA	100%	NA	NA
6		MT- Materials Testing	Dr. G. D. Sonawane	NA	NA	NA	6	6	NA	100%	Faculty Left PR
7		CAMD- CAD -Modeling	Dr. S. K. Chaudhary	NA	NA	NA	5	5	NA	100%	Conducted at the spot
8	TE	Mechanical Measurements and Controls	Dr. G. D. Sonawane	39	33	NA	NA	NA	95%	NA	F-2/24
9		TE- Thermal Engineering	Dr. S. K. Chaudhary	39	39	NA	2	2	100%	100%	SD
10		DOM- Dynamics of Machinery	Prof. S. M. Patil	39	40	1	8	8	100%	100%	PR
11		FEA- Finite Element Analysis	Prof. G. E. Chavan	39	39	NA	8	8	100%	100%	PR
12		DOE- Design of Experiments	Prof. R. S. Gaikwad	39	39	NA	NA	NA	100%	NA	PR
13		PCE -II-Professional communication and ethics -II	Prof. Hemant Sonawane	26	26	NA	8	8	100%	100%	PR
14	BE	DMS-Design of Mechanical Systems	Prof. R. S. Gaikwad	48	50	2	4	4	100%	100%	PR
15		LSCM- Logistics Supply Chain Management	Prof. M. A. Salunke	39	39	NA	NA	NA	100%	NA	F-2/24
16		DLOC 3 (VS)- Vehicle System	Prof. U. V. Patil	39	40	1	NA	NA	100%	NA	PR
17		DLOC 4(MCD)- Machinery Diagnostics	Prof. S. M. Patil	39	40	1	NA	NA	100%	NA	PR
18		ILOC I (PLCM)- Product Life Cycle Management	Prof. U. V. Patil	39	39	NA	NA	NA	100%	NA	PR
19		ME- Maintenance Engineering	Prof. U. V. Patil	NA	NA	NA	7	7	NA	100%	PR
20		IS- Industrial Skills	Prof. S. M. Patil	NA	NA	NA	5	5	NA	100%	PR

Dept. Academic Coordinator

HOD



"Sabka Malik Atma"
Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-15 A

Rev : 00

Date: 11.07.2022

Department:

Academic monitoring report (SEPT)

Mechanical Engineering

Academic Year: 2023 -24

Semester: ODD

Date of Preparation: 01.10.2023

Sr. No	Class	Name of the subject	Name of the Faculty	No. of Lectures planned	No. of Lectures conducted	Extra lectures conducted	No. of Practical planned	No. of Practical conducted	% syllabus covered		Sign
									Theory	Practical	
1	SE	Engineering Mathematics-III	Prof. Prashant Bijwe	12	12	NA	2	2	75%	75%	<i>Pr</i>
2		Strength of Materials	Prof. G. E. Chavan	13	13	NA	NA	NA	70%	NA	<i>Pr</i>
3		Production Processes	Prof. M. A. Salunke	12	12	NA	NA	NA	72%	NA	<i>M. Salunke</i>
4		Materials and Metallurgy	Dr. G. D. Sonawane	10	10	NA	NA	NA	65%	NA	<i>Lectures conducted other staff</i>
5		Thermodynamics	Dr. S. K. Chaudhary	10	10	NA	NA	NA	78%	NA	<i>Sk</i>
6		MT- Materials Testing	Dr. G. D. Sonawane	NA	NA	NA	3	3	NA	45%	-
7		CAMD- CAD –Modeling	Dr. S. K. Chaudhary	NA	NA	NA	3	3	NA	40%	<i>Pr</i>
8	TE	Mechanical Measurements and Controls	Dr. G. D. Sonawane	10	5	NA	NA	NA	75%	NA	<i>Dr. G. D. Sonawane left</i>
9		TE- Thermal Engineering	Dr. S. K. Chaudhary	9	9	NA	2	2	80%	80%	<i>Lectures conducted other staff</i>
10		DOM- Dynamics of Machinery	Prof. S. M. Patil	7	7	NA	2	2	85%	85%	<i>Pr</i>
11		FEA- Finite Element Analysis	Prof. G. E. Chavan	10	10	NA	2	2	83%	78%	<i>Pr</i>
12		DOE- Design of Experiments	Prof. R. S. Gaikwad	10	10	NA	NA	NA	85%	NA	<i>Pr</i>
13		PCE -II-Professional communication and ethics –II	Prof. Hemant Sonawane	8	8	NA	3	3	85%	85%	<i>Pr</i>
14	BE	DMS-Design of Mechanical Systems	Prof. R. S. Gaikwad	14	14	NA	3	3	85%	90%	<i>Pr</i>
15		LSCM- Logistics Supply Chain Management	Prof. M. A. Salunke	9	9	NA	NA	NA	80%	NA	<i>M. Salunke</i>
16		DLOC 3 (VS)- Vehicle System	Prof. U. V. Patil	8	8	NA	NA	NA	90%	NA	<i>Pr</i>
17		DLOC 4(MCD)- Machinery Diagnostics	Prof. S. M. Patil	9	9	NA	NA	NA	85%	NA	<i>Pr</i>
18		ILOC I (PLCM)- Product Life Cycle Management	Prof. U. V. Patil	10	10	NA	NA	NA	80%	NA	<i>Pr</i>
19		ME- Maintenance Engineering	Prof. U. V. Patil	NA	NA	NA	2	2	NA	85%	<i>Pr</i>
20		IS- Industrial Skills	Prof. S. M. Patil	NA	NA	NA	2	2	NA	85%	<i>Pr</i>

Dept. Academic Coordinator

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Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-15 A
Rev : 00
Date: 11.07.2022
Department:

Academic monitoring report (AUG)

Academic Year: 2023 -24
Semester: ODD
Date of Preparation: 01.09.2023

Mechanical Engineering

Sr. No	Class	Name of the subject	Name of the Faculty	No. of Lectures planned	No. of Lectures conducted	Extra lectures conducted	No. of Practical planned	No. of Practical conducted	% syllabus covered		Sign
									Theory	Practical	
1	SE	Engineering Mathematics-III	Prof. Prashant Bijwe	12	12	NA	2	2	45%	45%	
2		Strength of Materials	Prof. G. E. Chavan	13	13	NA	NA	NA	40%	NA	
3		Production Processes	Prof. M. A. Salunke	15	15	NA	NA	NA	42%	NA	
4		Materials and Metallurgy	Dr. G. D. Sonawane	12	12	NA	NA	NA	45%	NA	
5		Thermodynamics	Dr.S. K. Chaudhary	12	12	NA	NA	NA	48%	NA	
6		MT- Materials Testing	Dr. G. D. Sonawane	NA	NA	NA	3	3	NA	45%	
7		CAMD- CAD –Modeling	Dr.S. K. Chaudhary	NA	NA	NA	3	3	NA	40%	
8	TE	CAMD- CAD –Modeling	Dr. G. D. Sonawane	NA	NA	NA	3	3	NA	40%	
8		Mechanical Measurements and Controls	Dr. G. D. Sonawane	10	10	NA	NA	NA	65%	NA	
9		TE- Thermal Engineering	Dr.S. K. Chaudhary	9	9	NA	3	3	60	65%	
10		DOM- Dynamics of Machinery	Prof. S. M. Patil	13	13	NA	3	3	65%	67%	
11		FEA- Finite Element Analysis	Prof. G. E. Chavan	13	13	NA	2	2	68%	50%	
12		DOE- Design of Experiments	Prof. R. S. Gaikwad	13	13	NA	NA	NA	65%	NA	
13	BE	PCE -II-Professional communication and ethics -II	Prof. Hemant Sonawane	6	6	NA	4	4	60%	60%	
14		DMS-Design of Mechanical Systems	Prof. R. S. Gaikwad	15	15	NA	3	3	65%	NA	
15		LSCM- Logistics Supply Chain Management	Prof. M. A. Salunke	12	12	NA	NA	NA	60%	NA	
16		DLOC 3 (VS)- Vehicle System	Prof. U. V. Patil	13	13	NA	NA	NA	55%	NA	
17		DLOC 4 (MCD)- Machinery Diagnostics	Prof. S. M. Patil	11	11	NA	NA	NA	58%	NA	
18		ILOCT (PLCM)- Product Life Cycle Management	Prof. U. V. Patil	12	12	NA	NA	NA	66%	NA	
19		ME- Maintenance Engineering	Prof. U. V. Patil	NA	NA	NA	3	3	NA	70%	
20		IS- Industrial Skills	Prof. S. M. Patil	NA	NA	NA	3	3	NA	70%	

Dept. Academic Coordinator

HOD



Vishwamak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-15 A
Rev : 00
Date: 11.07.2022
Department:

Academic monitoring report (JULY)

Academic Year: 2023 -24
Semester: ODD
Date of Preparation: 01.08.2023

Mechanical Engineering

Sr. No	Class	Name of the subject	Name of the Faculty	No. of Lectures planned	No. of Lectures conducted	Extra lectures conducted	No. of Practical planned	No. of Practical conducted	% syllabus covered		Sign
									Theory	Practical	
1	SE	Engineering Mathematics-III	Prof. Prashant Bijwe	8	8	NA	1	1	25%	15%	<i>PS</i>
2		Strength of Materials	Prof. G. E. Chavan	7	7	NA	NA	NA	20%	NA	<i>PS</i>
3		Production Processes	Prof. M. A. Salunke	7	7	NA	NA	NA	22%	NA	<i>PS</i>
4		Materials and Metallurgy	Dr. G. D. Sonawane	7	7	NA	NA	NA	25%	NA	<i>PS</i>
5		Thermodynamics	Dr. S. K. Chaudhary	6	6	NA	NA	NA	18%	NA	<i>PS</i>
6		MT- Materials Testing	Dr. G. D. Sonawane	NA	NA	NA	1	1	NA	15%	<i>PS</i>
7		CAMD- CAD –Modeling	Dr. S. K. Chaudhary	NA	NA	NA	1	1	NA	20%	<i>PS</i>
8	TE	Mechanical Measurements and Controls	Dr. G. D. Sonawane	8	8	NA	NA	NA	40%	NA	<i>PS</i>
9		TE- Thermal Engineering	Dr. S. K. Chaudhary	11	11	NA	1	1	35%	35%	<i>PS</i>
10		DOM- Dynamics of Machinery	Prof. S. M. Patil	8	8	NA	1	1	30%	30%	<i>PS</i>
11		FEA- Finite Element Analysis	Prof. G. E. Chavan	9	9	NA	1	1	30%	30%	<i>PS</i>
12		DOE- Design of Experiments	Prof. R. S. Gaikwad	10	10	NA	NA	NA	31%	NA	<i>PS</i>
13		PCE -II-Professional communication and ethics –II	Prof. Hemant Sonawane	4	4	NA	2	2	40%	35%	<i>PS</i>
14	BE	DMS-Design of Mechanical Systems	Prof. R. S. Gaikwad	12	12	NA	2	2	35%	35%	<i>PS</i>
15		LSCM- Logistics Supply Chain Management	Prof. M. A. Salunke	9	9	NA	3	3	30%	35%	<i>PS</i>
16		DLOC 3 (VS)- Vehicle System	Prof. U. V. Patil	9	9	NA	NA	NA	30%	NA	<i>PS</i>
17		DLOC 4(MCD)- Machinery Diagnostics	Prof. S. M. Patil	10	10	NA	NA	NA	31%	NA	<i>PS</i>
18		ILOC I (PLCM)- Product Life Cycle Management	Prof. U. V. Patil	9	9	NA	NA	NA	30%	NA	<i>PS</i>
19		ME- Maintenance Engineering	Prof. U. V. Patil	NA	NA	NA	2	2	NA	30%	<i>PS</i>
20		IS- Industrial Skills	Prof. S. M. Patil	NA	NA	NA	2	2	NA	20%	<i>PS</i>

Dept. Academic Coordinator



Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

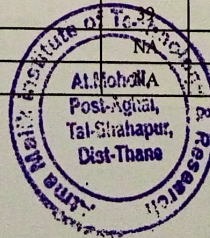
ACAD-DI-15 B
Rev : 00
Date: 11.07.2022
Department:

Consolidated Academic monitoring report
Mechanical Engineering

Academic Year: 2023 -24
Semester: EVEN
Date of Preparation: 12.4.2024

Sr. No	Class	Name of the subject	Name of the Faculty	No. of Lectures planned	No. of Lectures conducted	Extra lectures conducted	No. of Practical planned	No. of Practical conducted	% syllabus covered		Sign
									Theory	Practical	
1	SE	Engineering Mathematics-IV	Prof.Prashant Bijwe								
2		Fluid Mechanics	Prof. G. E. Chavan	39	32	NA	NA	NA	85%	NA	<i>[Signature]</i>
3		Kinematics of Machinery	Prof. S. M. Patil	39	36	NA	NA	NA	92%	NA	<i>[Signature]</i>
4		CAD/CAM	Prof. R. S. Gaikwad	39	40	1	5	5	100%	100%	<i>[Signature]</i>
5		Industrial Electronics	Prof. Y. S. Gaikwad	39	40	1	NA	NA	100%	NA	<i>[Signature]</i>
6		Python Programming	Prof. XYZ	NA	NA	NA	6	5	90%	95%	
7		CNC and 3-D Printing	Dr. S. K. Chaudhary	NA	NA	NA	5	5	NA	100%	<i>[Signature]</i>
8	TE	Machine Design	Prof. G. E. Chavan	NA	NA	NA	6	5	NA	90%	<i>[Signature]</i>
9		Turbo Machinery	Dr. D. R. Rajendran	40	36	NA	6	4	92%	90%	
10		Heating, Ventilation, Air conditioning and Refrigeration	Prof. S. M. Patil	39	37	NA	8	7	96%	95%	
11		Automation and Artificial Intelligence	Dr. D. R. Rajendran	39	40	2	8	8	98%	100%	<i>[Signature]</i>
12		Press Tool Design	Dr. S. K. Chaudhary	39	36	NA	NA	NA	90%	NA	<i>[Signature]</i>
13		Measurements and Automation	Prof. R. S. Gaikwad	38	36	NA	NA	NA	92%	NA	<i>[Signature]</i>
14		Operations Planning & Control	Prof. R. S. Gaikwad	NA	NA	NA	9	9	NA	100%	<i>[Signature]</i>
15	BE	Composite Material	Prof. Dr. S. K. Chaudhary	42	41	4	NA	NA	98%	NA	<i>[Signature]</i>
16		Total Quality Management	Dr. S. B. Chandgude	39	33	NA	NA	NA	85%	NA	<i>[Signature]</i>
17		Project Management	Prof. U.V. Patil	39	34	NA	NA	NA	86%	NA	<i>[Signature]</i>
18		Product design and development	Dr. S. K. Chaudhary	35	35	NA	NA	NA	86%	NA	<i>[Signature]</i>
19		Laboratory Based on IOT	Dr. S. K. Chaudhary	NA	NA	NA	6	5	NA	95%	
			Prof. XYZ	NA	NA	NA	6	5	NA	92%	<i>[Signature]</i>

[Signature]
Academic Coordinator



[Signature]
HOD



Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-15 A

Rev : 00

Date: 11.07.2022

Department:

Mechanical Engineering

Academic monitoring report

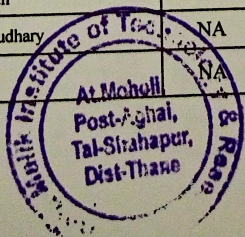
Academic Year: 2023-24

Semester: ~~ODD~~ EVEN

Date of Preparation: 1.4.2024

Sr. No	Class	Name of the subject	Name of the Faculty	No. of Lectures planned	No. of Lectures conducted	Extra lectures conducted	No. of Practical planned	No. of Practical conducted	% syllabus covered		Sign
									Theory	Practical	
1	SE	Engineering Mathematics-IV	Prof. Prashant Bijwe	15	12	NA	NA	NA	82%	NA	f
2		Fluid Mechanics	Prof. G. E. Chavan	15	14	NA	NA	NA	90%	NA	
3		Kinematics of Machinery	Prof. S. M. Patil	15	15	1	2	2	95%	95%	f
4		CAD/CAM	Prof. R. S. Gaikwad	15	15	NA	NA	NA	95%	NA	
5		Industrial Electronics	Prof. Y. S. Gaikwad	14	12	NA	2	2	90%	95%	f
6		Python Programming	Prof. XYZ	NA	NA	NA	2	2	NA	90%	
7		CNC and 3-D Printing	Dr. S. K. Chaudhary	NA	NA	NA	2	2	NA	90%	
8	TE	Machine Design	Prof. G. E. Chavan	13	11	NA	2	2	92%	90%	f
9		Turbo Machinery	Dr. D. R. Rajendran	15	14	NA	3	3	96%	92%	
10		Heating, Ventilation, Air conditioning and Refrigeration	Prof. S. M. Patil	15	15	2	3	3	98%	100%	f
11		Automation and Artificial Intelligence	Dr. D. R. Rajendran	15	14	NA	NA	NA	90%	NA	
12		Press Tool Design	Dr. S. K. Chaudhary	13	11	NA	NA	NA	92%	NA	f
13		Measurements and Automation	Prof. R. S. Gaikwad	NA	NA	NA	3	3	NA	95%	
14	BE	Operations Planning & Control	Prof. R. S. Gaikwad	13	15	2	NA	NA	98%	NA	f
15		Composite Material	Prof. Dr. S. K. Chaudhary	13	11	NA	NA	NA	85%	NA	
16		Total Quality Management	Dr. S. B. Chandgude	15	13	NA	NA	NA	86%	NA	f
17		Project Management	Prof. U. V. Patil	15	13	NA	NA	NA	86%	NA	
18		Product design and development	Dr. S. K. Chaudhary	NA	NA	NA	3	3	NA	95%	f
19		Laboratory Based on IOT	Prof. XYZ	NA	NA	NA	2	2	NA	92%	

Academic Coordinator



HOD

Department of Mechanical Engineering

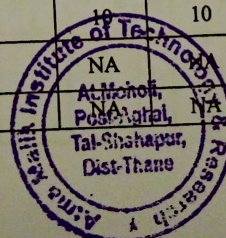
ACAD-DI-15 A
Rev : 00
Date: 11.07.2022

Academic monitoring report

Academic Year: 2023 -24
Semester: EVEN
Date of Preparation: 31.01.2024

Sr. No	Class	Name of the subject	Name of the Faculty	No. of Lectures planned	No. of Lectures conducted	Extra lectures conducted	No. of Practical planned	No. of Practical conducted	% syllabus covered		Sign
									Theory	Practical	
1	SE	Engineering Mathematics-IV	Prof. Prashant Bijwe	10	10	NA	NA	NA	28%	NA	
2		Fluid Mechanics	Prof. G. E. Chavan	10	9	NA	NA	NA	26%	NA	
3		Kinematics of Machinery	Prof. S. M. Patil	11	9	NA	3	2	27%	25%	
4		CAD/CAM	Prof. R. S. Gaikwad	11	11	2	NA	NA	28%	NA	
5		Industrial Electronics	XYZ (Prof. Y. Gaikwad)	9	8	NA	NA	NA	25%	NA	
6		Python Programming	XYZ	NA	NA	NA	NA	NA	NA	NA	
7		CNC and 3-D Printing	Dr.S. K. Chaudhary	NA	NA	NA	4	2	NA	25%	
8	TE	Machine Design	Prof. G. E. Chavan	12	12	NA	NA	NA	25%	NA	
9		Turbo Machinery	Dr. D. R. Rajendran	12	12	NA	NA	NA	25%	NA	
10		Heating, Ventilation, Air conditioning and Refrigeration	Prof. S. M. Patil	9	9	NA	3	2	26%	25%	
11		Automation and Artificial Intelligence	Dr. D. R. Rajendran	9	9	NA	NA	NA	25%	NA	
12		Press Tool Design	Dr.S. K. Chaudhary	9	8	NA	NA	NA	25%	NA	
13		Measurements and Automation	Prof. R. S. Gaikwad	NA	NA	NA	3	2	NA	25%	
14		Operations Planning & Control	Prof. R. S. Gaikwad	11	11	3	NA	NA	28%	NA	
15	BE	Composite Material	Dr.S. K. Chaudhary	9	9	NA	NA	NA	25%	NA	
16		Total Quality Management	Prof. U.V. Patil	10	10	NA	NA	NA	27%	NA	
17		Project Management	Prof. U.V. Patil	10	10	NA	NA	NA	27%	NA	
18		Product design and development	Dr.S. K. Chaudhary	NA	NA	NA	4	2	NA	25%	
19		Laboratory Based on IOT	XYZ	NA	NA	NA	2	2	NA	25%	

Academic Coordinator



HOD



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Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

ACAD-DI-12	Content Beyond Syllabus	Academic Year: 2023-24
Rev : 00		Semester: Odd
Date: 11-7-2022		

Date of Preparation: 13.10.2023

Division/Class: BE

Subject: Design of Mechanical System

Credits: 04

Teaching Scheme: 4Hr/week

Examination Scheme:-100 Marks

IA: 20 Marks

ESE: 80 Marks

CO: To introduce the concept, procedures, and data to analyze machine elements in power transmission systems.

Lecture Number	Topic to be covered (Relevancy with Syllabus and Beyond syllabus)	Teaching Media/ methodology	References	Expert	Online Link	Proposed date	Conducted Date	Remarks in case of any deviation
1	Practical Field session on (Engaging & Disengaging gear using clutch) <i>Gear Box transmission fundamental</i>	Practical Base	-	Prof. Ulhaskumar Patil	-	12/10/2023	13/10/2023	-





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Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

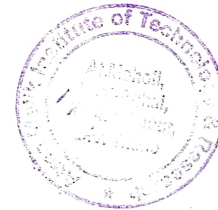
Summary:

AE(Academic Expert)	Name of Faculty	No of sessions Planned	No. of sessions Conducted	% Completion	Remark
AE(Academic Expert)	Prof. Ulhaskumar Patil	1	1	100%	
SC(Subject Coordinator)	Prof. Rupali Gaikwad	1	1	100%	

Prof. Govind Chavan
HOD

Prof. Govind Chavan
Vice-Principal

Dr. Dnyandeo D. Shinde
Principal





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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

Report on Content beyond Syllabus

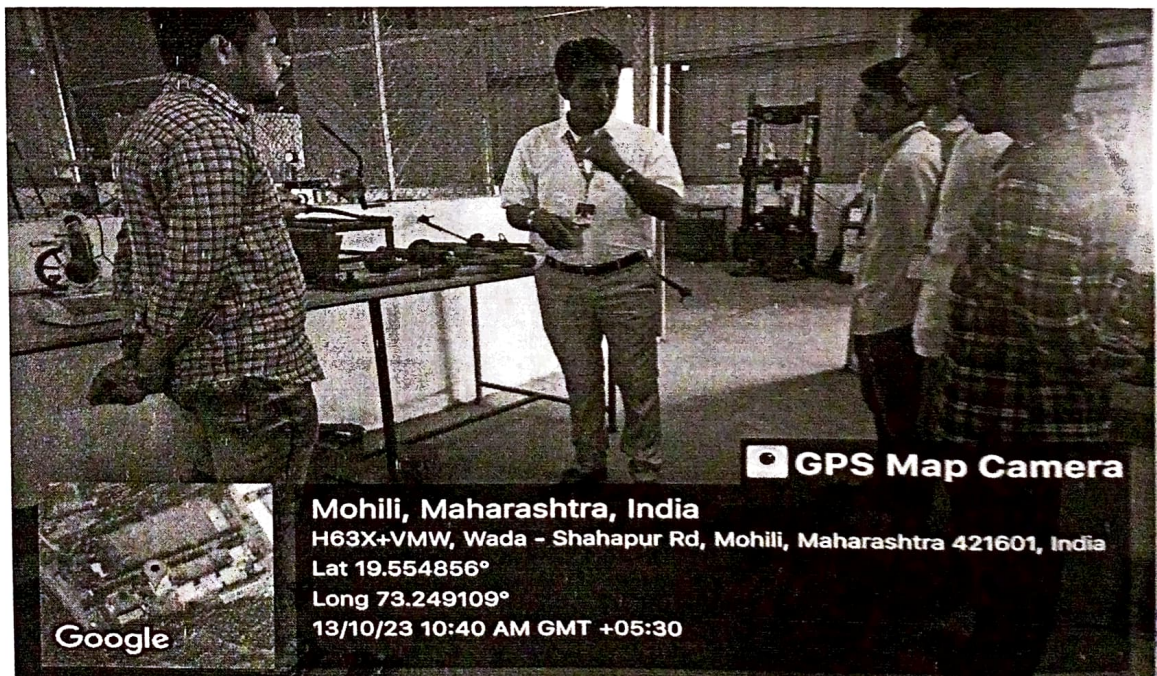
Subject Name: Design of Mechanical System

Topic Name: Gear box transmission Fundamentals

What are the objectives of gearbox?

The purpose of a gearbox is to increase or reduce speed. As a result, torque output will be the inverse of the speed function. If the enclosed drive is a speed reducer (speed output is less than speed input), the torque output will increase; if the drive increases speed, the torque output will decrease.

A gear is a machine element used to transmit motion between rotating shafts/wheels when the center distance between the shafts is not too large. They provide a positive drive, maintaining exact velocity ratios between driving and driven shafts. A transmission is a speed and power changing device installed at some point between the engine and driving wheels of the vehicle. It provides a means for changing the ratio between engine rpm (revolutions per minutes) and driving wheel rpm to best meet each particular driving situation. Given in order to get smooth starts and have power to pass and climb hills, a power ratio must be provided to multiply the torque and turning effort of the engine. Also required is a speed ration to avoid the need for extremely high engine rpm at high road speed. The transmission is geared to perform these functions.



Types of Gears



Spur Gears



Helical Gears



Gear Rack



Bevel Gears



Miter Gears



Worm Gears



Screw Gears



Internal Gears





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Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering



GPS Map Camera

Mohili, Maharashtra, India

H63X+WPX, Wada - Shahapur Rd, Mohili, Maharashtra 421601, India

Lat 19.554772°

Long 73.249705°

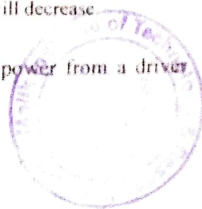
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Google

What is the function of gearbox in transmission system?

The purpose of a gearbox is to increase or reduce speed. As a result, torque output will be the inverse of the speed function. If the enclosed drive is a speed reducer (speed output is less than speed input), the torque output will increase; if the drive increases speed, the torque output will decrease.

Conclusion: Gear drives are mechanisms used for transmitting shaft power from a driver such as an engine, turbine, or motor to a driven piece of machinery.



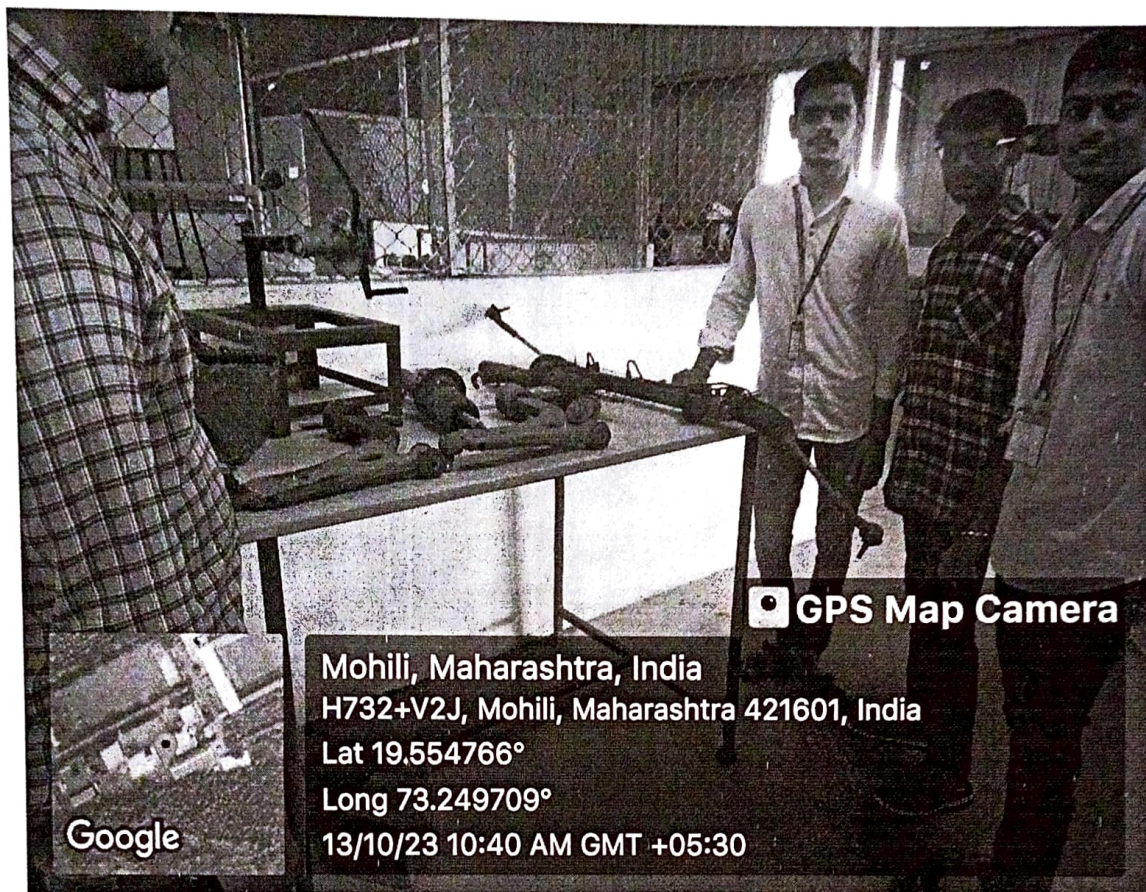


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Department of Mechanical Engineering





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Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-12	Content Beyond Syllabus	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		

Date of Preparation:

Division/Class: TE

Teaching Scheme: 3Hr/week

IA: 20 Marks

Subject: HVAC & R

Examination Scheme:-100 Marks

Credits: 03

ESE: 80 Marks

Lecture Number	Topic to be covered (Relevancy with Syllabus and Beyond syllabus)	Teaching Media/ methodology	References	Expert	Online Link	Proposed date	Conducted Date	Remarks in case of any deviation
1	One day workshop on "Dismantling, Inspection and Assembly of an Air Conditioning System"	Offline	-	Mr. Shubham Ahire	-	31/01/2024	30/01/2024	completed.

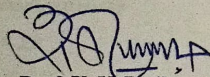




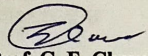
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Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

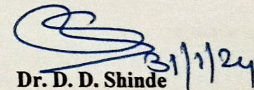
Summary: ,

AE(Academic Expert)	Topic	No of sessions Planned	No. of sessions Conducted	% Completion	Remark
Mr. Shubham Ahire	One day workshop on "Dismantling, Inspection and Assembly of an Air Conditioning System"	01	01	100	completed.


Prof. U. V. Patil
HOD




Prof. G. E. Chavan
Vice-Principal


Dr. D. D. Shinde
Principal



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Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-58	One Page Activity Report	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		

- **Name of Activity:** A Workshop on "Dismantling, Inspection and Assembly of Air Conditioning System" for students.
- **Date of activity:** 30/01/2024.
- **Total No. of Participants:** 35
- **Name and contact details of resource person:** Mr. Shubham Ahire, AMRIT.
- **Name of Faculty coordinator:** Prof. Sonali Patil, AMRIT.
- **Activity Objectives:**
 - Learning the fundamental principles and different methods of air conditioning.
 - Study of components of air conditioning system (Indoor and Outdoor) along with dismantling and assembly.
- **Activity Outcomes:**
 - This session has helped our students enhance their subject knowledge.
 - Students are able to illustrate the fundamental principles and applications of air conditioning systems.
 - Students are able to identify and inspect various components of the air conditioning system.
- **Activity Details:**

Department of Mechanical Engineering have successfully organized a one day workshop on "Dismantling, Inspection and Assembly of Air Conditioning System" conducted by Mr. Shubham Ahire, AMRIT on 30th January, 2024.

Mr. Shubham Ahire explained the Air Conditioning System very well. He showed students how to dismantle and assemble an air conditioner both Indoor and Outdoor Unit. The session was interactive till the end and sir has resolved queries from students as well.





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Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

Event Photograph: Workshop on "Dismantling, Inspection and Assembly of Air Conditioning System".



Prof. Sonali Patil
Coordinator



Prof. Uthaskumar Patil
HOD

Dr. D. D. Shinde
Principal



Classroom



TE HVAC & R



SE Kinematics of Ma...



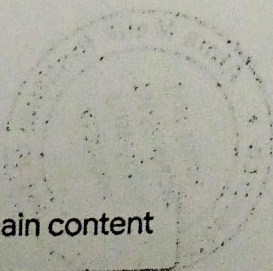
2023-24 NEP-10 Proj...

18 Dec 2023 to 22 Dec 2023

Roli Pradhan



TE Dynamics of Mach...



Skip to main content





Stream

Classwork

People

Marks



Customise

TE HVAC & R



Announce something to your class



SONALI PATIL posted a new material: Previous Year Question Paper
2 Apr



SONALI PATIL posted a new assignment: HVAC Experiment No.6
2 Apr



SONALI PATIL posted a new assignment: Assignment No.3
26 Mar



SONALI PATIL posted a new assignment: HVAC & R Assignment No. 02
6 Mar (Edited 18 Mar)



SONALI PATIL posted a new material: Refrigeration Chart
6 Mar



Skip to main content

SONALI PATIL posted a new assignment: HVAC & R Assignment No.1
6 Feb (Edited 11 Feb)





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Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

Summary of Guest Lecture/ Expert Talk

Sr. No	Guest Lecture/ Expert Talk	Speaker	Date	No. of Students Attended
1	Expert Lecture on "After Graduation What"	Prof. S.R. Das	15-02-2024	122
2	Expert Lecture on "World Class Manufacturing and Indian Industry"	Dr. N. S. Poonawala	15-02-2024	140
3	Webinar on "Writing Decent Emails"	Mr. Manoj Pawar	31-01- 2024	151
4	Webinar on "The Solar Revolution: Igniting Youth Entrepreneurship and Careers in Sustainable Energy"	Mr. Pratik Joshi	16-10-2023	123
5	Webinar on "Customer Relationship Management"	Dr. Nitin Patil	14-10-2023	150
6	Guest Lecture on "Training & Placement "	Prof. Amit Dalavi	28-09-2023	45
7	Expert lecture on "Fire Safety awareness"	Mr. Dinesh Godade	28-08-2023	150
8	Industrial Expert lecture on "Motivation and Industrial Awareness"	Mrs. Gauravi Burte	18-08-2023	77





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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

ACAD-DI-59	One Page Activity Report	Academic Year: 2023-24
Rev : 00		Semester: ODD
Date: 11-7-2022		

- **Faculty Name** – Prof. Rupali S. Gaikwad
- **Date** –16/10/2023 Timing 04.00 PM – 5.30 PM
- **Planned Activity** – Webinar on “The Solar Revolution: Igniting Youth Entrepreneurship and Careers in Sustainable Energy”
- **Speaker** - **Mr. Pratik Joshi (Phd)** Working in energy policy with a particular focus on solar PV energy at IIT Bombay
- **No. of Participants** -
- **Permission from Authorities** – Prof. Ulhaskumar Patil (HOD Mechanical)
- **Implementation Details** – Ensuring universal access to affordable electricity by 2030 means investing in clean energy sources such as solar, wind and thermal. Expanding infrastructure and upgrading technology to provide clean energy in all developing countries is a crucial goal that can both encourage growth and help the environment.
- **Issues** – No
- **Conclusion** – Sustainable energy is derived from resources that can maintain current operations without jeopardizing the energy needs or climate of future generations. The most popular sources of sustainable energy, including wind, solar and hydropower, are also renewable.
- **Attendance & Feedback Report**- Attached
- **Completion Report** -Webinar Successfully completed on 16/10/2023


Coordinator

Prof. R. S. Gaikwad




HOD

Prof. U. V. Patil



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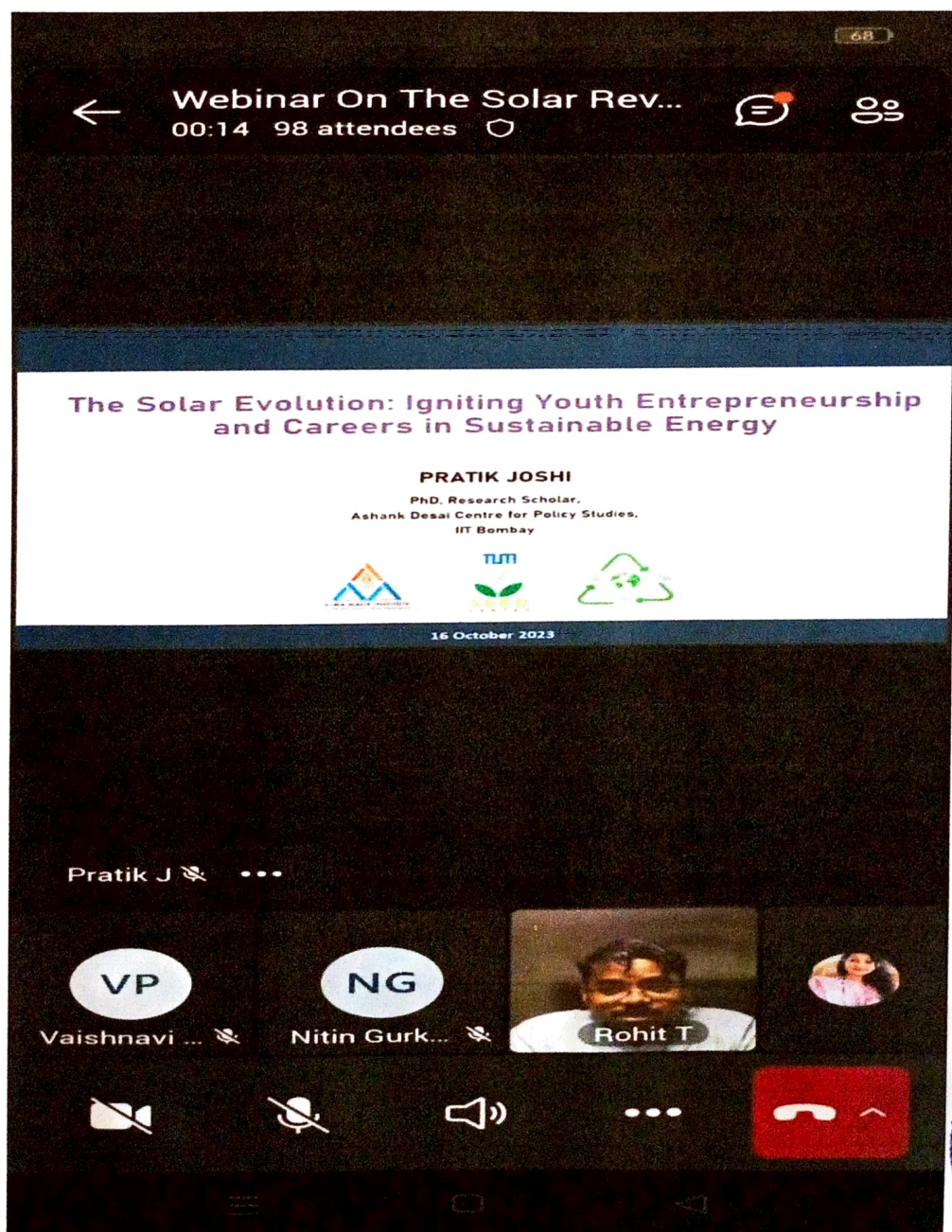
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Department of Mechanical Engineering

Introduction

With the growing urgency to address climate change and shift towards sustainable energy solutions, there has never been a more critical time for the younger generation to get involved in the renewable energy sector. "The Solar Revolution" is designed to provide young minds with the knowledge, resources, and inspiration they need to kickstart their careers in sustainable energy or even start their own entrepreneurial ventures.





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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

History and evolution of solar energy technology

- **Application in Space:**
 - US Navy's earth-orbiting satellite VanguardI in 1958
 - Six 5x5cm square cells of 1 Watt with 10% efficiency at 28°C were used [1]
- **First Oil Crisis**
 - 1973 Oil Embargo
 - Yom Kippur War
 - Scarcity of oil and price shocks
 - Many countries expanded their governance structure.
- **Kyoto Protocol, 1997**
 - an international treaty for reducing greenhouse gas concentrations
 - 192 parties ratified
 - based on common yet differentiated responsibilities
- **Accidents at Nuclear Power plants**
 - Chernobyl (1986)
 - Fukushima (2011)



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Google | YouTube | Maps | Mail | Outlook | Downloads | Login | 04/10/2023 | 09:04

Identifying Solar Cells



Mono

Poly

Thin Film

the crystalline framework is homogeneous	composed of a number of smaller crystals	It is the combination of layers on material on a substrate, such as glass, plastic or metal.
Made by Czochralski process	Depositing crystals	made by depositing one or more thin layers



Meeting chat

Dear students, in case of any doubt you can post your question in the chatbox. We'll let Pratik know your questions.

16:26
<https://forms.gle/2Jh3bKwqgH8P8d>



feedback form I please fill





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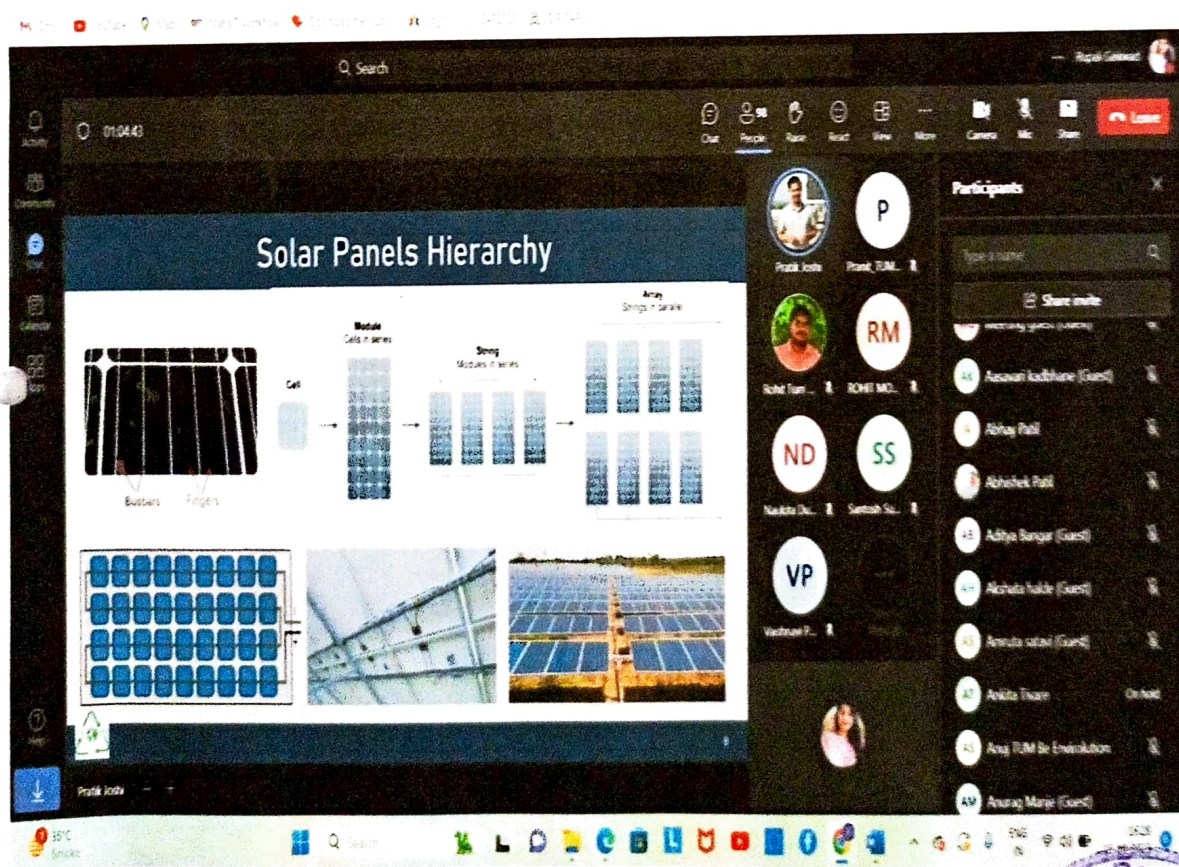
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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

Key Highlights of the Event:

1. **Expert Speakers:** Hear from industry experts and thought leaders who will share insights into the solar energy industry, its growth potential, and the career opportunities it offers.
2. **Interactive Workshops:** Engage in hands-on workshops that will equip you with practical skills and knowledge in solar energy technologies and entrepreneurship.
3. **Networking Opportunities:** Connect with like-minded individuals, potential mentors, and employers in the renewable energy field.
4. **Career Guidance:** Get guidance on educational pathways, scholarships, and internships in the sustainable energy sector.
5. **Start-up Pitch Competition:** Have a sustainable energy business idea? Participate in our pitch competition for a chance to win seed funding and mentorship.





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Benefits and challenges of PV systems

Benefits	Challenges
- Flexible capacity building - Stationary structure - Easy installation - Increased energy independence - Reduced environmental impact	- High upfront cost - Space Availability - Grid stability and safety - Intermittency - Voltage and frequency regulation - Harmonics - Islanding

Entrepreneurship Opportunities

- Solar PV Installation Business
 - Solar-Powered Agriculture Solutions
 - Community Solar Projects
 - Solar PV Maintenance and Repair Services
- Solar PV Design Services
- Solar PV Manufacturing
- Solar PV Equipment Sales/Distributor
- Solar PV Consulting
- Solar PV Project Development
- Solar PV Financing and Leasing (Solar loan officer)
- Solar PV Software Development
 - Solar PV Integration with IoT
 - Mobile app development
- Solar PV Education and Training
- Solar PV Waste Management
- Solar-Powered Transportation

Thank You

Mobile/ Whatsapp: (+91) 9420064303
Email: pratik.policy@gmail.com
Website: www.YoursPJ.in

HOD

Prof. U. V. Patil



Principleal

Dr. D. D. Shinde

Principal

Atma Malik Institute of Technology & Research
At Moholi, Post-Aghal, Tal-Shahapur, Dist-Thane



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Department of Mechanical Engineering

mech
(Diploma + Degree)

ACAD-DI-	Webinar on "The Solar Revolution: Igniting Youth Entrepreneurship and Careers in Sustainable Energy Students Attendance	Academic Year: 2023-24
Rev : 00		Semester: ODD
Date: 11-7-2022		

Date: 16/10/2023

Sr. No	Students Name	Contact No	Class	Brach	Students Sign
1	Parth R. Deau	8767405379	SE	mech	Parth
2	Abhay S. Diva	7020588990	SE	Mech	Abhay
3	Swarnil S. Gungorke	7887664048	SE	Mech	Swarnil
4	Siddhant M. Jambhale	7249284101	SE	Mech	Siddhant
5	Sachin K. Bhargava	8011408736	SE	mech	Sachin
6	Khushal D. Chavan	7304755521	SE	Mech	Khushal
7	Tukaram S. Kavar	9421557004	SE	Mech	Tukaram
8	Tiran G. Lahere	9356210670	SE	Mech	Tiran
9	Akshay D. Bramhane	9322430199	SE	Mech	Akshay
10	Ravikant Y. Jadhav	7798812681	SE	Mech	Ravikant
11	Vinay V. Naik	9657586491	SE	Mech	Vinay
12	Vishesh S. Bhoir	9761832370	BE	Mech	Vishesh
13	Niket A. Patil	9699508937	SE	Mech	Niket
14	Swarnil R. Sahane	937372430	SE	Mech	Swarnil
15	Karan A. Kashivale	8329340325	SE	Mech	Karan
16	Deepak R. Kushwaha	7721972986	TE	Mech	Deepak
17	Bhavik Sunil Patil	9304024644	TE	Mech	Bhavik
18	Manish Rajendra Patil	7387412442	TE	Mech	Manish
19	Mayur Gurnath Jadhav	7276184865	TE	Mech	Mayur
20	Amol Suresh Dupare	7620553859	TE	Mech	Amol
21	Satish Padalkar	9356833027	TE	Mech	Satish
22	Hemlata Mahale	9165199285	BE		Hemlata
23	Vijay A. Thakare	8999921848	BE	Mech	Vijay
24	Shivam Thakare	9511760960	BE	Mech	Shivam





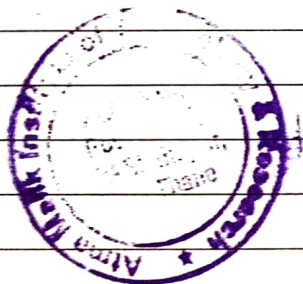
!! Sabka Malik Atma !!

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Department of Mechanical Engineering

25	Sameers K. Dalvi	9022763881	B.E	MECH	
26	Nitin P. Dalvi	9326854327	B.E	mech	
27	Kunal R. more	9819050958	B.E	mech	
28	Suraj S. Muknark	7499932036	B.E	mech	
29	Manish V. Ghorat	8419004229	BE	ME	
30	Shubham S. Jadhav	9637209206	BE	ME	
31	Ashish S. Ghorat	8652568942	BE	ME	
32	Dhruv S. Chhadode	8857000738	BE	ME	
33	Tejus D. Patil	9767832370	BE	Mech	
34	Ruchit C. Ghorat	9921663088	BE	MEch	
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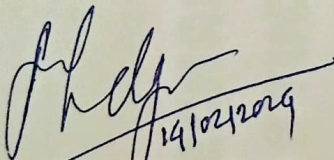
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Department of Mechanical Engineering

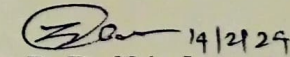
ACAD-DI-68	Notice	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11/07/2022		

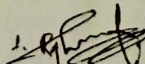
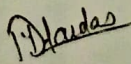
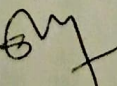
Date 14/02/2024

All the students of Diploma and Degree of AMRIT are hereby informed that, Department of Mechanical Engineering is organizing an Expert Lecture on **"World-class Manufacturing & Indian Industry"** by Dr. N. S. Poonawala and Expert Lecture on **"After Graduation, What?"** by Prof. S. R. Das on February 15, 2024, at 11.30 AM. to 01.30 PM and 01.30 PM to 3.30 PM.


Dr. Suryakant Chandgude
HOD




Dr. D. D. Shinde
Principal

- Copy to: 1. HOD Civil Engineering 
2. HOD EXTC Engineering
3. HOD Computer Engineering 
4. HOD First Year Engineering 
5. Diploma Coordinator



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VISHWATMAK JANGALI MAHARAJ ASHRAM TRUST'S
ATMA MALIK INSTITUTE OF TECHNOLOGY AND RESEARCH.



Department of Mechanical Engineering

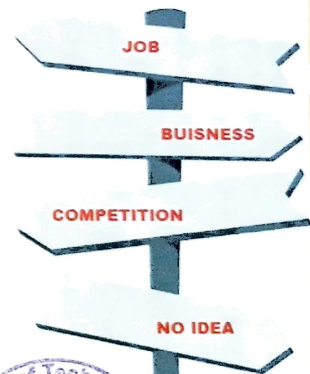
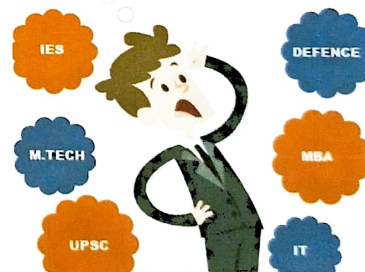
MECHANICAL ENGINEERING STUDENT'S ASSOCIATION

- **Expert Lecture on "After Graduation, What?"**
- **Speaker Name:- Prof. S. R. Das**

THURSDAY | **01.30 PM** | **VENUE: AUDITORIUM**
15 FEB | **ONWARDS** | **HALL**
2024

FACULTY COORDINATOR: :Prof. R. S. Gaikwad

CONFUSED??
WHAT TO DO



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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering



ACAD-DI-59	One Page Activity Report	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		

- **Faculty Name** – Prof. Rupali S. Gaikwad (Program Coordinator)
- **Date** – 15th February 2024.
- **Planned Activity** – Expert Lecture on “After Graduation, What?” by Prof. S. R. Das
- **Permission from Authorities** – Dr. D. D. Shinde (Principal AMRIT)
- **Implementation** – Career guidance can help students understand their strengths, weaknesses, and interests, and provide them with a clearer picture of the career paths available to them. This can include information on different industries, job roles, and the skills and qualifications required to succeed in a given field. For short-term courses, you can explore specialized courses in data science, machine learning, software development, cyber security, IT and architecture, etc. For master's programs, the best courses after B tech are MBA, MTech, MSc, Masters in Finance, PGDM and specialized PG programs.
- **Issues** – No
- **Conclusion-** In conclusion, engineering is a dynamic and essential field that plays a pivotal role in shaping our modern world. It encompasses a wide range of disciplines, from civil and mechanical engineering to electronic and computer engineering, each contributing to the advancement of technology and the betterment of society.
- **Attendance Report-** Attached & Photo Attached.
- **Completion Report** –Expert Lecture Successfully Conducted on 15th February 2024.

Prof. R. S. Gaikwad

Program Coordinator

Dr. S. B. Chandgude

HOD





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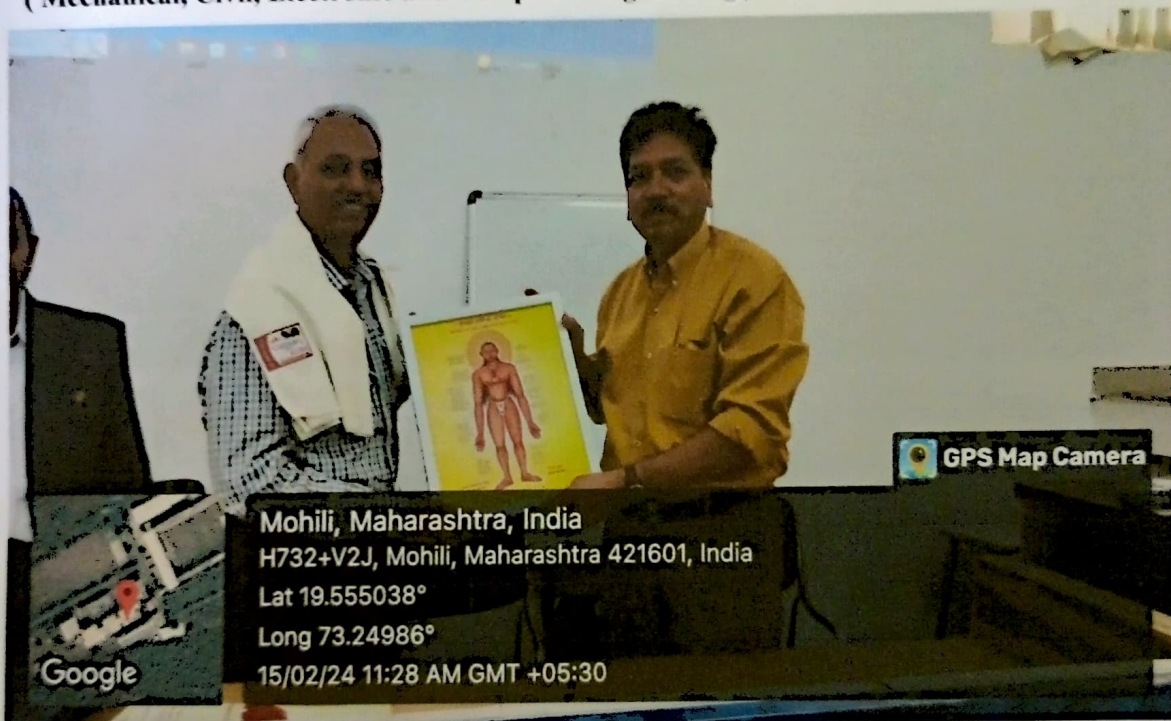
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Department of Mechanical Engineering

**REPORT ON EXPERT LECTURE ON "AFTER GRADUATION,
WHAT?" HELD ON 15TH FEB 2024**

Department of Mechanical Engineering, AMRIT, Aghai conducted expert lecture on "After Graduation What" on 15TH February 2024, Thursday from 01:30 pm to 3:30 pm for and BE (Mechanical, Civil, Electronic and Computer Engineering) classes.



In guest speech he emphasized on Opportunities in Mechanical Engineering and Future scope. In his speech he told students that Mechanical engineering deals with the design, development, installation, operation and maintenance of anything that has moving parts. Because of this, you will find relevant opportunities in a range of sectors, including:

Aerospace,
automotive,
construction,
energy;
manufacturing;
medicine;
railway;
Logistics.





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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering



After 4 years of course, CSE graduates can take up vivid positions such as Web Developer, Software Developer, Software Testing Engineer, Hardware Engineer, Database Analyst, CR System Analyst, Business System Analyst, Data Warehouse Developer, Data Modeler, IT Manager, QA Analyst, IT Auditor, and Application Developer.





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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

A total of 122 students participate in from BE classes. I am thankful to Hon. Principal Dr. D. D. Shinde for motivating me to conduct such events. I am thankful to the Head of Dept. Dr. S. B. Chandgude for guidance. Also thank you to all faculties and students who participated in this activity.

Prof. R. S. Gaikwad
Program Coordinator

Dr. S. B. Chandgude
HOD Mechanical

Dr. D. D. Shinde

f

Principal

12/21/24

Principal

Atma Malik Institute of Technology & Research
Al Moholi, Post Aghal, Tal-Shahapur, Dist-Thane





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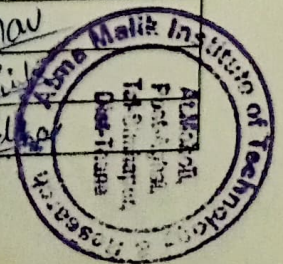
Atma Malik Institute of Technology & Research (AMRIT)**Department of Mechanical Engineering**

ACAD-DI-	Expert Lecture on "Career Guidance on After Graduation"	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-07-2022		

Time :- 1.00 Pm- 03.00 Pm

Date: 15/02/2024

Sr. No	Students Name	Branch	Class	Students Sign
1	Tanvi Santosh Acharekar	civil	BE	<i>Tanvi</i>
2	Gauri Shamsundar Akolkar	Civil	BE	<i>Gauri</i>
3				
4	Smita Sukhadev Bhagat	Civil	BE	<i>Smita</i>
5	Bhavika Sanjay Bhoir	Civil	BE	<i>Bhavika</i>
6	Dhanashree Pramod Bhoir	Civil	BE	<i>Dhanashree</i>
7	Bhoye Shubham Rajaram	Civil	BE	<i>Bhoye</i>
8	Chaudhari Amit Prakash	Civil	BE	<i>Amit</i>
9	Chaudhary Anvind Indrajit	Civil	BE	<i>Anvind</i>
10	Chaudhary Ganesh Bhatnagar	Civil	BE	<i>Ganesh</i>
11	Fasale Jayesh Ravindra	Civil	BE	<i>Fasale</i>
12	Gaikwad Akanksha	Civil	BE	<i>Akanksha</i>
13	Gaikwad Karan Madhukar	Civil	BE	<i>Karan</i>
14	Gangurde Nilesh Dilip	Civil	BE	<i>Nilesh</i>
15	RACE ANKASH SANJAY	CIVIL	BE	<i>Race</i>
16	Gayen Bikram Amit	CIVIL	BE	<i>Bikram</i>
17	Shubham Kumar Gond	Civil	BE	<i>Shubham</i>
18	Bharati Madhukar Jadhav	Civil	BE	<i>Bharati</i>
19	Manthan Morewar Jadhav	Civil	BE	<i>Manthan</i>
20	Mohale Anil Jadhav	CIVIL	BE	<i>Mohale</i>
21	Nitesh Morewar Jadhav	Civil	BE	<i>N.M. Jadhav</i>
22	Pooja Ashok Jadhav	Civil	BE	<i>Pooja</i>
23	Sanjay Ramchandra Jadhav	Civil	BE	<i>Sanjay</i>
24	Yash Jagdish Jadhav	CIVIL	BE	<i>Yash</i>





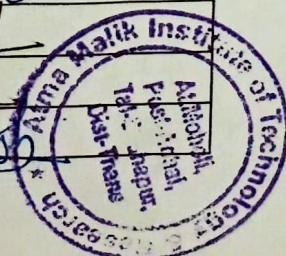
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25	Jethe Avinash Ballonash	BE	civil	ABDune
26	Kamble urmila Ravindra	BE	civil	Kurra
27	Kheratmol Vinayak Vaidnath	BE	civil	Ameyak
28	yadnesn S. Adwile	B.E	mech	Aadhyat
29	Viresh. S. Bhoie	BE	mech	ABDune
30	Sahil S. Bhovare	BE	mech	Schil
31	Sameer K. Dalavi	B.E	mech	Dalavi
32	Nitin P. Dalvi	B.E	mech	Dalvi
33	ISHVAR S. DHODAK	B.E	mech	ISHR
34	Vicky A. Gajaksh	B.E	Mech	Udayaksh
35	Manish V. Ghansal	B.E	mech	Manish
36	Ruchit C. Ghoniat	B.E	mech	Ruchit
37	Harshad S. Jadhav	B.E	mech	Harshad
38	Mamali Vilas Jadhav	B.E	mech	Mamali
39	Shubham S. Jadhav	BE	Mech	Jadhav
40	Soraj B Jadhav	BE	MECH	Soraj
41	Pratik A. Mape	BE	MECH	Pratik
42	Vrushali N. Bageel	BE	Comp	Vrushali
43	Vrutika Bageel	BE	Comp	Vrutika
44	Bhor Ajay Sandip	BE	Comp	Bhor
45	Bhore Prajakta Prabhatkar	TE	Comp	Bhore
46	Bhoir Apeksha Nayan	TE	Comp	Bhoir
47	Sanskriti Bhosale	BE	Comp	Bhosale
48	Pratik Bodake	BE	Comp	Pratik
49	Siddhesh Bodake	BE	Comp	Siddhesh
50	Lalit Borse	BE	Comp	Lalit
51	Bhramje Sweta Kalagonda	T.E.	Comp	Bhramje
52	Chaudhari Nilamshiva	TE	Comp	Chaudhari
53	Chhand Yashesh Manik	TE	Comp	Chhand
54	Gangul Bhagyashri Dipak	BE	Comp	Gangul
55	Rutwikesh Ichake	BE	Comp	Rutwikesh





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85	Bhagyashree Jadhav	comp	BE	<u>Radhak</u>
86	Jadhav Devyani	comp	BE	<u>Chait</u>
87	Jadhav Snehal Mulhoni	comp	BE	<u>Snehal</u>
88	Jadhav Prachi Chandrakant	comp	BE	<u>Prachi</u>
89	Gupta Shivam Shunkar	comp	TE	<u>Shiv</u>
90	Gupta Tejas	comp	TE	<u>Tejas</u>
91	Kunal Anil Ingale	comp	TE	<u>Kunal</u>
92	Jadhav Vedant Vinod	Comp	TE	<u>Vedant</u>
93	Jaydeep Nishant Santay	comp	TE	<u>Nishant</u>
94	Joshi Karan, Kiran	Comp	TE	<u>Karan</u>
95	Bagadi A Khedekar	Comp	TE	<u>Bagadi</u>
96	Mane Sahil Sanjay	comp	TE	<u>Sane</u>
97	Dinkar Snehal Mulhoni	comp	TE	<u>Dinkar</u>
98	Akshay Sanjay Malekar	Comp	BE	<u>Akshay</u>
99	Priyanka Dattatraya Nishant	comp	BE	<u>Priyanka</u>
100	Jaydeep Shantaram Patil	comp	BE	<u>Jaydeep</u>
101	Aarush B. Patil	comp	TE	<u>Aarush</u>
102	Kunal Nishant Patil	Comp	TE	<u>Kunal</u>
103	Patil Kunal Shantanu	Comp	TE	<u>Patil</u>
104	Patil Sanubh Sanjay	Comp	TE	<u>Sanubh</u>
105	Pawar Madhav P.	Comp	TE	<u>Pawar</u>
106	Pawar Rahul D	CO	TE	<u>Pawar</u>
107	Pawar Tanu V.	Comp	TE	<u>Pawar</u>
108	Pekhare Samruddhi	Comp	TE	<u>Pekhare</u>
109	Vishal Pragapah	Comp	TE	<u>Vishal</u>
110	Radhak Rahul	Comp	TE	<u>Radhak</u>
111	Radhak Gash	comp	TE	<u>Radhak</u>
112	Rutuja Sabale	comp	TE	<u>Rutuja</u>
113	Keelkar Shinde	comp	BE	<u>Keelkar</u>
114	Nitesh Sharma	Comp	TE	<u>Nitesh</u>





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56	Gejal Temkor	comp	BE	<u>Somkar</u>
57	Mayur Jadhav	mech	TE	<u>Pradip</u>
58	Ganesh S. Raut	mech	TE	<u>Pradip</u>
59	Amol S. Dupare	mech	TE	<u>Pradip</u>
60	Karjane N. Raut	mech	TE	<u>Pradip</u>
61	Soraj R. Singh	mech	TE	<u>Pradip</u>
62	Satish N. Goswami	mech	TE	<u>Pradip</u>
63	Manish R. Patil	mech	TE	<u>Pradip</u>
64	Rushkesh V. Dhasode	mech	TE	<u>Pradip</u>
65	Pratik S. Patil	mech	TE	<u>Pradip</u>
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