



ATMA MALIK INSTITUTE OF TECHNOLOGY AND RESEARCH (AMRIT)

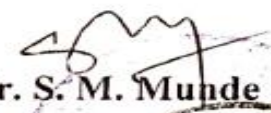
Mohili-Aghai, Shahapur, Thane, Maharashtra, India. Pincode: 421603
Contact: +91 7720012139 / +91 9552773875, info@vishwatkengg.in

Key Indicator -1.1 Curricular Planning and Implementation

Sub Criteria 1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment. As a case study documents of department of Mechanical Engineering is elaborated through below index.

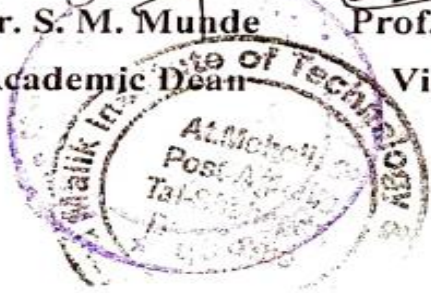
INDEX

Sr. No.	Description
A.	Curriculum Planning
B.	Curriculum Delivery
C.	Continuous Internal Assessment
D.	ISO Academic Manual


Dr. S. M. Munde
Academic Dean


Prof. G. E. Chavan
Vice-Principal


Dr. D. D. Shinde
Principal



Atma Malik Institute of Technology and Research
Mohili-Aghai, Thane, Maharashtra



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Mohili-Aghai, Shahapur, Thane, Maharashtra, India. Pincode: 421603
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1.1.1. C: Continuous Internal Assessment

The index of documents along with the case study of department of Mechanical Engineering is elaborated below.

Sr. No.	Description
A.	Internal Assessment I & II Time table
C.	Internal Assessment I & II Question Paper
D.	Internal assessment student attendance sheet
E.	Internal Assessment Average sheet (Evaluation sheet)
F.	Laboratory plan and its continuous assessment sheet
G.	Tutorial/Assignment Plan and its continuous assessment
H.	Project Evaluation sheet
I.	Course Exit survey and its evaluation





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

ACAD-DI-18	Internal Examination –I Time Table	Academic Year: 2023-24
Rev : 00		Semester: ODD
Date: 11-7-2022		

Date: 12/09/2023

All the students **SE/TE/BE** of **SEM- III/V/VII** of academic year **2023-24** are hereby informed that **Internal Assessment -I** is scheduled from 13/09/2023 to 15/09/2023.

Follow the time table as mentioned below:

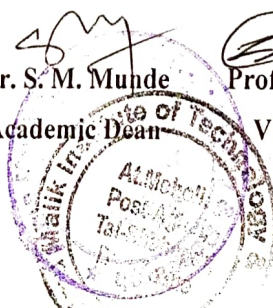
Day & DATE	Time	Class	Subjects
13/09/2023 Wednesday	11:00 am- 12:00 pm	SE	EM III
		TE	TE
		BE	DMS
	3:00 pm-4:00 pm	SE	TD
		TE	DOM
		BE	LSCM
14/09/2023 Thursday	11:00 am- 12:00pm	SE	MM
		TE	FEA
		BE	VS
	3:00 pm-4:00 pm	SE	PP
		TE	DOE
		BE	MCD
15/09/2023 Friday	10:00 am-11:00 am	SE	SOM
		TE	MMC
		BE	PLCM

Prof. S. M. Patil

Dept. Exam
co-ordinator

Dr. G. D. Sonawane
HOD

Dr. S. M. Munde
Academic Dean



Prof. G. E. Chavan
Vice-Principal

Dr. D. D. Shinde
Principal

Atma Malik Institute of Technology & Research
At Moholi, Tal. Chikoli, Dist. Solapur



!! Sabka Malik Atma !!

Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

ACAD-DI-17	Internal Assessment I Question Paper	Academic Year: 2023-24
Rev : 00		Semester: ODD
Date: 11-7-2022		

Academic Year: 2023-24

Class: BE

Time: 1hr

Subject: DMS

Semesters: VII

Branch: Mech

Max Marks: 20

Date: 13/09/2023

1. – Answer any TWO.

05*2=10M

Q.No.1	Questions	CO	BLOOMS Level	Marks
A	Illustrate the morphology of mechanical system design	CO1	L-02	5
B	Derive Lewis Equation for the beam strength of gear tooth.	CO2	L-04	5
C	Derive and expression for the breaking strength of the 6X37 type wire rope.	CO3	L-04	5

2. – Answer any ONE.

10*1=10M

Q.No. 2	Questions	CO	BLOOMS Level	Marks
A	Design a Bevel Gear pair for following Specifications: Rated Power= 40KW, Input Speed = 360 rpm, Reduction ratio= 3, Shaft Angle = 90°.	CO-2	L-04, L-05	10
B	The following specification refers to an EOT crane. Application- Class II Load to be lifted – 100KN Hoisting speed- 8m/min Maximum lift- 15m 1. Select suitable type and size of the wire rope for an expected life of 13 months 2. Design the pulley axle and select suitable bearing	CO-3	L-04, L-05	10



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

ACAD-DI-21	Exam Attendance and Mark Sheet	Academic Year: 2023-24
Rev : 00		Semester: ODD
Date: 11-7-2022		

Class: **BE**

Subject: **DMS**

Date: **13/09/2023**

Sr. No.	Roll No.	Name	Student Sign	Marks obtained
1		Viresh S Bhoir		20
2		Sahil S Bhovale		10
3		Sameer K. Dalavi		13
4		Ashish S. Gharat		16
5		manish V. Gharat		16
6		Harshad S. Jadhav		18
7		shubham S. Jadhav		09
8		Suryaj B. Jadhav		04
9		Abhijeet Vithhal Patil		08
10		Niraj Rajendra Patil		19
11		Sanket Vijay Patil		19
12		Tejas Dilip Patil		15
13		Chaitali Krishna Pawar		05
14		Suryaj Vijay Sepat		08
15		Vilas Ashok Thakare		11
16		Bhavik Sudhakar patil		10
17		Ishvar Shantaram Dhadade		12
18		Ruchit Chandrakant Ghane		13
19		suryaj Subhash muknak		15
20		Vinit Mohan patil		09
21		yadnesh sunil Adhikari		09
22		Monali M. Vilas Jadhav		09
23		Shivam Tanaji Thakare		18
24		Ganesh Vasant Tayate		17
25		Mouyuresh Eknath Rayat		14
26		Shubham Subhash Kulaskar		09
27		Pratik Ashok Mope		09
28		Tedar Dattabray Patil		09
29		Kunal More		02
30		Vicky Anil Gajakosh		11
31		Saksham M. Paragankar		17
32		Vijay Karmnath Prajapati		08
33				

Supervisor's Name	Appeared	No of students Present	Absent	Sign
Sonali Patil		32		
Subject Teacher Name	Pass	No of students Fail	% Pass	Sign
Prof. R. Garkwad	28	04	87.5%	



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Department of Mechanical Engineering

ACAD-DI-18	Internal Examination –II Time Table	Academic Year: 2023-24
Rev : 00		
Date: 11-7-2022		Semester: ODD

Date: 23/10/2023

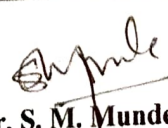
All the students of SE/DSE/TE/BE of SEM- III/V/VII of academic year 2023-24 are hereby informed that **Internal Assessment -II** is scheduled from 26/10/2023 to 28/10/2023.

Follow the time table as mentioned below:

Day & DATE	Time	Class	Subjects
26/10/2023 Thursday	11:00 am- 12:00 pm	SE	EM III
		TE	TE
		BE	DMS
	3:00 pm- 4:00 pm	SE	TD
		TE	DOM
		BE	LSCM
27/10/2023 Friday	11:00 am- 12:00 pm	SE	MM
		TE	FEA
		BE	VS
	3:00 pm- 4:00 pm	SE	PP
		TE	DOE
		BE	MCD
28/10/2023	1:00 am- 2:00 pm	SE	SOM
		TE	MMC
		BE	PLCM


Prof. S. M. Patil
Dept. Exam
Coordinator


Prof. U. V. Patil
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-17	Internal Assessment II Question Paper	Academic Year: 2023-24
Rev : 00		Semester: Odd
Date: 11-7-2022		

Academic Year: 2023-34

Class: SE

Time: 1hr

Subject: Strength of Materials (SOM)

1. – Answer any TWO.

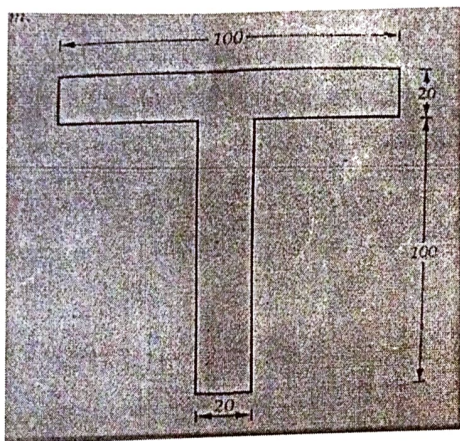
Semesters: III

Branch: Mech

Max Marks: 20

Date: 28/10/2023

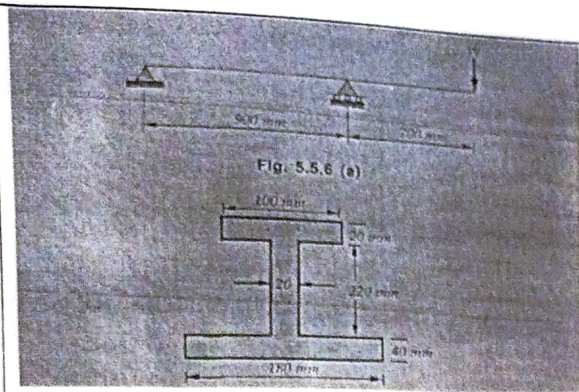
05*2=10M

Q. No. 1	Questions	CO	BLOOM S Level	Marks
A	State the assumptions in simple theory of bending.	CO3	L1	05
B	Find the section modulus for the T-section shown in fig. The dimensions are in mm. 	CO3	L3	05
C	Determine the polar modulus for hollow circular section	CO4	L1	05
D	Find the maximum share stress induced in a solid circular shaft of diameter 150 mm when it transmits 150 KW at 180 RPM	CO4	L1	05

10*1=10M

2. – Answer any ONE.

Q. No. 2	Questions	CO	BLOOM MS Level	Marks
A	A simply supported beam with overhang is loaded with point load shown in fig. The cross-section of beam is I-section. The allowable bending stresses in tension and compression are $\sigma_t = 150 \text{ MPa}$ and $\sigma_c = 100 \text{ MPa}$. Find the safe value of load W on the overhang.	CO3	L3	10



B

Two shafts of the same material and of same length are subject to the same torque. If the first shaft is of a solid circular section and the second shaft is of Hollow circular section whose internal diameter is $\frac{2}{3}$ of the outside diameter and the maximum shear stress develop in each shaft the same compare the weights of the shaft

CO4

L3

10





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Department of Mechanical Engineering

ACAD-DI-21	Exam Attendance and Mark Sheet	Academic Year: 2023-24
Rev : 00		Semester: ODD
Date: 11-7-2022		

Class: DSE

Subject: som

Date: 28/10/22

Sr. No.	Roll No.	Name	Student Sign	Marks obtained
1	DSE-01	Baderao Pranit Santosh		09
2	DSE-02	Bhangare Sachin Kalu		10
3	DSE-03	Chavan Khushal Devidas		02
4	DSE-04	Jadhav Ravikant Yashwant		10
5	DSE-05	Naik Viraj Vilas		12
6	SE-06	Niket Anamta Patil		04
7	SE	Jadnika Thakur Patil		04
8	SE	Karan Anand Kashivale		14
9	SE	Siddhant Mangesh Jambhale		02
10	SE	Swapnil S. Gangurde		08
11	SE	Pavith. R. Desai		02
12	SE	Akshay D. Bramhane		02
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Supervisor's Name	No of students			Sign
	Appeared	Present	Absent	
 Sai Godade	13	12	01	

Subject Teacher Name	No of students			Sign
	Pass	Fail	% Pass	
 G.E. Chavan	10	02	83.33%	



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Department of Mechanical Engineering

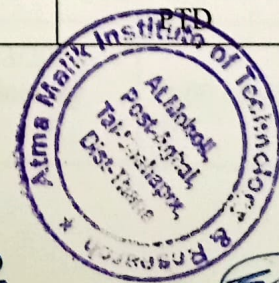
ACAD-DI-18	Internal Examination –I Time Table	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		

Date: 01/03/2024

All the students SE/TE/BE of SEM- IV/VI/VIII of academic year **2023-24** are hereby informed that **Internal Assessment -I** is scheduled from **04/03/2024 to 06/03/2024**.

Follow the time table as mentioned below:

Day & DATE	Time	Class	Subjects
04/03/2024 Monday	1:00 pm- 2:00 pm	SE	EM IV
		TE	MD
		BE	OPC
05/03/2024 Tuesday	11:00 am- 12:00pm	SE	FM
		TE	TM
		BE	CM
	2:00 pm-3:00 pm	SE	KOM
		TE	HVAC&R
		BE	TQM
06/03/2024 Wednesday	11:00 am-12:00 am	SE	CAD/CAM
		TE	AAI
		BE	PM
	2:00 pm-3:00 pm	SE	IE
		TE	PTD



Prof. S. M. Patil
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Vice-Principal

Dr. D. D. Shinde
Principal



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Department of Mechanical Engineering

ACAD-DI-17	Internal Assessment I Question Paper	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		

Academic Year: 2023-24

Class: TE

Time: 1hr

Subject: Heating Ventilation Air Conditioning and & Refrigeration

1. – Answer any TWO.

Semesters: VI

Branch: Mech

Max Marks: 20

Date: 05/03/2024

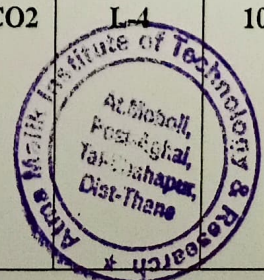
05*2=10M

Q.No.1	Questions	CO	BLOOMS Level	Marks
A	Compare Primary and Secondary refrigerants with few examples and give the properties of Good Refrigerants.	CO1	L-3	5
B	Explain the use of Heat Pump for heating and cooling cycle with a neat diagram.	CO2	L-3	5
C	Explain the Bypass factor for heating and cooling coils.	CO3	L-3	5

2. – Answer any ONE.

05*1=10M

Q.No.2	Questions	CO	BLOOMS Level	Marks																	
A	1A boot strap cooling system of 10 TR Capacity is used in an aero plane. The ambient air temperature and pressure are 20 °C & 0.85 bar respectively. The pressure of air increases from 0.85 bar to 1 bar due to ramming action of air. The pressure of air discharged from the main compressor is 3 bar. The discharge pressure of air from the auxiliary compressor is 4 bar. The isentropic efficiency of each compressor is 80%, while that of turbine is 85%. The heat exchanger effectiveness for both the heat exchanger is 60%. Assuming ramming action to be isentropic, the required cabin pressure of 0.9 bar and temperature of air leaving the cabin not more than 20 °C, Find: COP of system.	CO1	L-4	10																	
B	Consider a refrigeration machine using R-12 as refrigerant operates between the pressures 2.5 bar and 9 bar. The compression is isentropic and there is no undercooling in the condenser. The vapour is in dry saturated condition at the beginning of the compression. Estimate the theoretical coefficient of performance. If the actual coefficient of performance is 0.65 of theoretical value, calculate the net cooling produced per hour. The refrigerant flow is 5 kg per minute. Properties of refrigerant are: <table><tr><th rowspan="2">Pressure, bar</th><th rowspan="2">saturation temperature in °C</th><th colspan="2">Enthalpy in kJ/kg</th><th rowspan="2">Entropy of saturated vapour, kJ/kg. K</th></tr><tr><th>Liquid</th><th>Vapour</th></tr><tr><td>9.0</td><td>36</td><td>70.55</td><td>201.8</td><td>0.6836</td></tr><tr><td>2.5</td><td>-7</td><td>29.62</td><td>184.5</td><td>0.7001</td></tr></table>	Pressure, bar	saturation temperature in °C	Enthalpy in kJ/kg		Entropy of saturated vapour, kJ/kg. K	Liquid	Vapour	9.0	36	70.55	201.8	0.6836	2.5	-7	29.62	184.5	0.7001	CO2	L-4	10
Pressure, bar	saturation temperature in °C			Enthalpy in kJ/kg			Entropy of saturated vapour, kJ/kg. K														
		Liquid	Vapour																		
9.0	36	70.55	201.8	0.6836																	
2.5	-7	29.62	184.5	0.7001																	





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

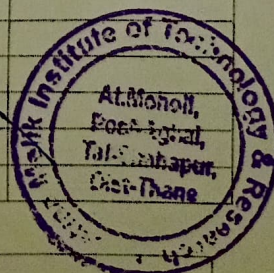
ACAD-DI-21	Exam Attendance and Mark Sheet	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		

Class: TE

Subject: HVACPR

Date: 5/3/24

Sr. No.	Roll No.	Name	Student Sign	Marks obtained
1	01	Sarthak Dadhekar		17
2	02	Rushikesh vasudev Phasade		14
3	03	Amul Suresh Duforo		15
4	04	Mayur Gaurunath Jagdhar		12
5	05	Manish Rajendra Patil		16
6	06	Ganesh Suresh Raut		14
7	07	Kunjan Nitendra Raut		15
8				AB
9	09	Soraj Ramsagar Singh		14
10	10	Bhavik smil patil		14
11	11	Satish Nandlal goswami		15.
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Supervisor's Name	No of students			Sign
	Appeared	Present	Absent	
Sai Godade	11	10	01	

Subject Teacher Name	No of students			Sign
	Pass	Fail	% Pass	
Souali Patil	10	01	90.90	



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Vishwatmak Jangli Maharaj Ashram Trust's
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Department of Mechanical Engineering

ACAD-DI-18	Internal Examination –II Time Table	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		

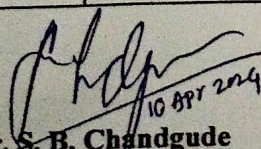
Date: 10/04/2024

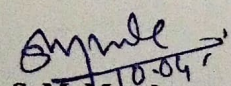
All the students **SE/TE/BE** of **SEM- IV/VI/VIII** of academic year **2023-24** are hereby informed that **Internal Assessment -II** is scheduled from **15/04/2024** to **17/04/2024**.

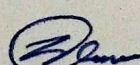
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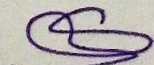
Day & Date	Time	Class	Subjects
15/04/2024 Monday	11:00 am- 12:00pm	SE	EM IV ✓
		TE	MD
		BE	OPC ✓
	2:00 pm-3:00 pm	SE	FM
		TE	TM ✓
		BE	CM ✓
16/04/2024 Tuesday	11:00 am- 12:00pm	SE	KOM ✓
		TE	HVAC&R ✓
		BE	TQM
	2:00 pm-3:00 pm	SE	CAD/CAM ✓
		TE	AAI ✓
		BE	PM ✓
17/04/2024 Wednesday	11:00 am-12:00 am	SE	IE
		TE	PTD ✓


Prof. S. M. Patil
Dept. Exam
Co-ordinator


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HOD


Dr. S. M. Munde
Academic Dean


Prof. G. E. Chavan
Vice-Principal


Dr. D. D. Shinde
Principal





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

ACAD-DI-17	Internal Assessment II Question Paper	Academic Year: 2023-24
Rev : 00		Semester: Even
Date: 11-7-2022		

Academic Year: 2023-24

Class: TE

Time: 1hr

Subject: HVAC&R

Semester: VI

Branch: Mech

Max Marks: 20

Date: 16/04/2024

1. – Answer any TWO.

05*2=10M

Q.No. 1	Questions	CO	BLOOMS Level	Marks
A	Write a short note on ICE plant and Cold Chain Technology.	CO-6	L-01	5
B	Explain the type of insulation materials.	CO-5	L-02	5
C	Give the classification of ducts in brief	CO-4	L-01	5

2. – Answer any ONE.

05*1=10M

Q.No. 2	Questions	CO	BLOOMS Level	Marks
A	Derive an expression for an equivalent diameter of a circular duct for a rectangular duct for the same frictional loss per unit length when quantity of air flowing through both ducts is the same	CO-4	L-03	10
B	Explain the Working of DX, Flooded, and Forced feed evaporators	CO-5	L-02	10





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

ACAD-DI-21

Rev : 00

Date: 11-7-2022

Exam Attendance and Mark Sheet

Academic Year: 2023-24

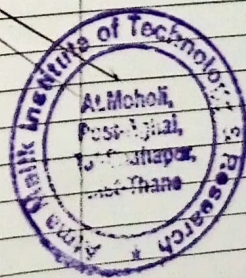
Semester: EVEN

Subject: **HVAC&R**

Class: **TE**

Date: **16/04/2024**

Sr. No.	Roll No.	Name	Student Sign	Marks obtained
1	1	Dadhekar Sarthak Rashmikant		17
2	2	Dhasade Rushikesh Vasudev		17
3	3	Dupare Amol Suresh		14
4	4	Jadhav Mayur Gurunath		15
5	5	Patil Manish Rajendra		17
6	6	Raut Ganesh Suresh		14
7	7	Raut Kunjan Nitendra		14
8	8	Sarmalkar Pavan Pundalik		15
9	9	Singh Suraj Ramsagar		16
10	10	Goswami Satish Nanalal		17
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Supervisor's Name	No of students			Sign
	Appeared	Present	Absent	
Prof. R. Gaikewad	10	10	00	
Subject Teacher Name	No of students			Sign
	Pass	Fail	% Pass	
Sonali Patil	10	00	100%	



!!Sabka Malik Atma!!

Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

ACAD-DI-23		Result Analysis Internal Assessment															Date: 30/10/23		
Rev : 00																	Class: SE MECH		
Date: 11.07.2022																	Div:		
RollNo	PRN No/GR. No.	Name of Student	EM III			TD			SOM			MM			PP			Final Status	Student Signature
			IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	Pass/ Fail (NO.of KTs)	
DSE-01	2439	Baderao Pranit Santosh	8	9	9	18	10	14	3	9	6	11	9	10	8	4	6	Fail (02)	Baderao
DSE-02	2440	Bhangare Sachin Kalu	8	13	11	18	16	17	15	15	15	15	12	14	15	8	12	Pass	Bhangare
DSE-03	2441	Chavan Khushal Devidas	13	12	13	18	17	18	16	8	12	13	14	14	9	14	12	Pass	Chavan
DSE-04	2442	Jadhav Ravikant Yashwant	0	8	4	17	15	16	12	10	11	11	12	12	12	8	10	Fail (01)	Jadhav
DSE-05	2443	Naik Viraj Vilas	11	8	10	13	13	13	5	12	9	13	13	13	10	8	9	Pass	Naik
SE-06		Patil Jadnika	8	8	8	9	11	10	11	4	8	9	12	11	7	4	6	Fail (01)	Patil

Total No.of students Present	16	1	1	1	1
Pass	14	1	1	1	0
Fail	2	0	1	0	1
RESULT %	88%	100%	100%	100.00%	0.00%
Faculty	Prof. P. S. Bijwe	Dr. S. K. Chaudhary	Prof. G. E. Chavan	Dr. G. D. Sonawane	Prof. M. S. Salunke
Subject	EM III	TD	SOM	MM	PP


Prof. S. M. Patil
Dept. Exam Incharge




Prof. U. V. Patil
HOD



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Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

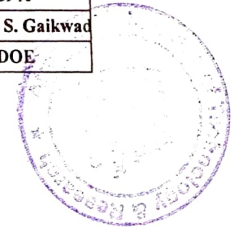
Department of Mechanical Engineering

ACAD-DI-23		Result Analysis Internal Assessment															Date: 30/10/23		
Rev : 00																	Class: TE MECH		
Date: 11.07.2022																	Div:		
RollNo	PRN No	Name of Student	MMC			TE			DOM			FEA			DOE			Final Status	Signature of Students
			IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	Pass/ Fail (No.of KT's)	
1	1893	DADHEKAR SARTHAK RASHMIKANT	14	16	15	18	18	18	18	19	19	17	19	18	19	17	18	Pass	[Signature]
2	2275	DHASADE RUSHIKESH VASUDEV	12	19	16	11	18	15	15	18	17	19	16	18	18	17	18	Pass	[Signature]
3	2272	DUPARE AMOL SURESH	14	11	13	15	18	17	15	17	16	18	AB	9	18	AB	9	Pass	[Signature]
4	1927	JADHAV MAYUR GURUNATH	10	14	12	13	17	15	10	18	14	9	17	13	16	18	17	Pass	[Signature]
5	2277	PATIL MANISH RAJENDRA	14	19	17	15	18	17	17	19	18	18	18	18	18	17	18	Pass	[Signature]
6	2279	RAUT GANESH SURESH	11	12	12	15	17	16	13	16	15	19	12	16	19	9	14	Pass	[Signature]
7	2278	RAUT KUNJAN NITENDRA	12	15	14	14	13	14	16	AB	8	19	AB	10	18	AB	9	Pass	[Signature]
8		SARMALKAR PAVAN PUNDALIK	AB	8	4	AB	AB	AB	AB	AB	AB	AB	11	6	AB	10	5	Fail (05)	[Signature]
9	2274	SINGH SURAJ RAMSAGAR	12	16	14	16	18	17	15	18	17	19	18	19	19	17	18	Pass	[Signature]

Total No. of students Present	9	8	8	9	9
Pass	8	8	8	8	8
Fail	1	0	0	1	1
RESULT %	89%	100%	100%	89%	89%
Faculty	Dr. G. D. Sonawane	Dr. S. K. Chaudhary	Prof. S. M. Patil	Prof. G. E. Chavan	Prof. R. S. Gaikwad
Subject	MMC	TE	DOM	FEA	DOE

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Atma Malik Institute of Technology & Research (AMRIT)

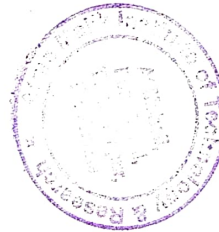
Department of Mechanical Engineering

ACAD-DI-23		Result Analysis Internal Assessment												Date: 09/11/2023					
Rev : 00														Class: BE MECH					
Date: 11.07.2022														Div:					
RollNo	PRN No	Name of Student	DMS			LSCM			VS			MCD			PLCM			Final Status	Students Signature
			IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	Pass/ Fail (NO. of KT's)	
1		Adhikari Yadnesh Sunil	9	13	11	8	8	8	10	9	10	8	8	8	12	8	10	Pass	Adhikari
2		Bhoir Viresh Suresh	20	19	20	17	17	17	17	18	18	19	19	19	16	18	17	Pass	Bhoir
3		Bhovare Sahil Santosh	10	15	13	10	10	10	12	11	12	16	8	12	15	11	13	Pass	Bhovare
4		Dalvi Sameer Krushna	13	15	14	8	13	11	16	13	15	14	11	13	14	13	14	Pass	Dalvi
5		Dalvi Nitin Pandharinath	AB	16	8	AB	16	8	AB	15	8	AB	15	8	AB	15	8	Pass	Dalvi
6		Dhodade Ishvar Shantaram	12	15	14	11	15	13	14	16	15	12	11	12	12	16	14	Pass	Dhodade
7		Gajakosh Vicky Anil	14	9	12	8	10	9	8	12	10	8	8	8	AB	15	8	Pass	Gajakosh
8		Gharat Ashish Subhash	16	AB	8	12	12	12	16	AB	8	17	AB	9	AB	AB	AB	Fail (01)	Gharat
9		Gharat Manish Vishwanath	16	17	8	12	15	14	13	16	15	12	8	10	AB	AB	AB	Fail (01)	Gharat
10		Gharat Ruchit Chandrakant	13	13	13	5	8	7	10	16	13	10	8	9	10	16	13	Pass	Gharat
11		Jadhav Harshad Sitaram	18	19	19	14	16	15	17	17	17	19	16	18	16	16	16	Pass	Jadhav
12		Jadhav Mrunali Vilas	9	10	10	12	8	10	10	14	12	10	17	14	AB	16	8	Pass	Jadhav
13		Jadhav Shubham Sanjay	9	11	10	10	11	11	8	11	10	14	4	9	8	12	10	Pass	Jadhav
14		Jadhav Suraj Balu	4	15	10	10	11	11	8	16	12	9	8	9	AB	16	8	Pass	Jadhav
15		Mope Pratik Ashok	9	13	11	8	8	8	8	12	10	10	6	8	10	10	10	Pass	Mope
16		More Kunal Ravindra	2	15	9	4	9	7	AB	16	8	AB	8	4	AB	11	6	Fail (03)	More
17		Muknak Suraj Subhash	15	11	13	11	9	10	10	12	11	13	8	11	AB	14	7	Fail (01)	Muknak
18		Pargaonkar Saksham Madhukar	17	10	14	12	9	11	12	12	12	11	8	10	16	AB	8	Pass	Pargaonkar
19		Patare Tejas Dattatray	9	12	11	9	8	9	9	14	12	8	10	9	13	12	13	Pass	Patare
20		Patil Abhijit Vitthal	8	13	11	10	9	10	12	12	12	12	7	10	3	14	9	Pass	Patil
21		Patil Bhavik Sudhakar	10	12	11	9	8	9	8	15	12	16	8	12	14	10	12	Pass	Patil
22		Patil Nirag Rajendra	19	19	19	13	14	14	16	14	15	18	14	16	16	16	16	Pass	Patil
23		Patil Sanket Vijay	19	18	19	14	11	13	12	15	14	19	15	17	16	16	16	Pass	Patil

24	Patil Tejas Dilip	15	17	16	14	13	14	8	14	11	14	9	12	15	14	15	Pass	<i>OK</i>
25	Patil Vinit Mohan	9	18	14	11	8	10	11	AB	6	7	AB	4	1	15	8	Fail (02)	<i>Fail</i>
26	Pawar Chaitali Krushna	5	18	12	11	10	11	8	13	11	16	9	13	AB	15	8	Pass	<i>Pass</i>
27	Prajapati Vijay Kumar Karmnath	6	17	12	12	9	11	8	14	11	9	8	9	AB	14	7	Fail (01)	<i>Fail</i>
28	Rayat Mayuresh Eknath	14	7	11	12	9	11	11	9	10	9	8	9	16	14	15	Pass	<i>Pass</i>
29	Sapat Suraj Vijay	8	11	10	10	12	11	13	12	13	10	8	9	AB	16	8	Pass	<i>Pass</i>
30	Sathie Imran Iqbal	AB	15	8	AB	9	5	9	12	11	7	8	8	AB	16	8	Fail (01)	<i>Fail</i>
31	Tayade Ganesh Vasant	17	16	17	8	11	10	11	14	13	12	8	10	AB	16	8	Pass	<i>Pass</i>
32	Thakare Shivam Tanaji	18	13	16	11	9	10	12	12	12	8	8	8	6	11	9	Pass	<i>Pass</i>
33	Thakare Vilas Ashok	11	16	14	13	12	13	14	15	15	14	12	13	15	16	16	Pass	<i>Pass</i>
34	Mahale Hemlata Raghunath	AB	17	9	AB	12	6	AB	18	9	AB	17	9	AB	16	8	Fail (01)	<i>Fail</i>
35	Kalaskar Shubham Subhash	9	AB	5	10	NA	5	9	AB	5	9	AB	5	12	AB	6	Fail (05)	<i>Fail</i>

Total No. of students Present	25	35	35	35	33
Pass	34	30	33	32	29
Fail	1	5	2	4	4
RESULT %	97.14%	85.71%	94.29%	91.43%	87.88%
Faculty	Prof. R. S. Gaikwad	Prof. M. A. Salunke	Prof. U. V. Patil	Prof. S. M. Patil	Prof. U. V. Patil
Subject	DMS	LSCM	VS	MCD	PLCM

[Signature]
Prof. S. M. Patil
Dept. Exam Incharge



[Signature]
Prof. U. V. Patil
HOD



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Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

		Department of Mechanical Engineering																	
		Result Analysis Internal Assessment															Date: 30/04/2024		
																	Class: SE MECH		
																	Semester: IV		
Roll No	PRN No.	Name of Student	EM IV			FM			KOM			CAD/CAM			IE			Final Status	Student Sign
			IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	Pass/ Fail (No. of KTs)	
1	2023016401395450	Baderao Pranit Santosh	8	12	10	14	9	12	13	13	13	16	10	13	15	13	14	Pass	
2	2023016401395430	Bhangare Sachin Kalu	14	16	15	14	15	15	15	11	13	15	17	16	15	15	15	Pass	
3	2023016401395570	Chavan Khushal Devidas	14	15	15	19	12	16	15	13	14	9	18	14	14	16	15	Pass	
4	2023016401395440	Jadhav Ravikant Yashwant	15	AB	8	11	AB	6	16	AB	8	9	AB	5	15	AB	8	Fail (2 KT)	
5	2023016401395720	Naik Viraj Vilas	14	14	14	9	13	11	16	13	15	11	14	13	18	15	17	Pass	
6	2022016402176000	Patil Jadnika Thakur	13	16	15	5	12	9	11	14	13	9	14	12	18	14	16	Pass	

Total No. of students Present	6	6	6	6	6
Pass	6	5	6	5	6
Fail	0	1	0	1	0
RESULT %	100%	83%	100%	83%	100%
Faculty	Prof. P. S. Bijwe	Prof. G. E. Chavan	Prof. S. M. Patil	Prof. R. S. Gaikwad	Prof. Yogesh Gaikwad
Subject	EM IV	FM	KOM	CAD/CAM	IE

P. S. Bijwe
Prof. S. M. Patil
Dept. Exam Incharge

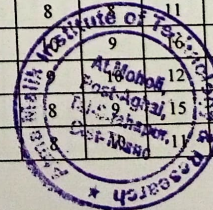


S. B. Chandgude
Dr. S. B. Chandgude
HOD



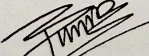
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Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

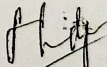
ACAD-DI-23		Result Analysis Internal Assessment										Date: 30/04/2024				
Rev : 00												Class: BE MECH				
Date: 11.07.2022												Semester: VIII				
Roll No	PRN No	Name of Student	OPC			CM			TQM			PM			Final Status	Students Signature
			IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	Pass/ Fail (NO.of KTs)	
1	2021016402369740	Adhikari Yadnesh Sunil	18	18	18	13	12	13	10	7	9	11	16	14	Pass	
2	2021016402369040	Bhoir Viresh Suresh	19	19	19	17	19	18	13	14	14	18	18	18	Pass	
3	2021016402369110	Bhovare Sahil Santosh	17	18	18	11	12	12	9	11	10	15	16	16	Pass	
4	2021016402369100	Dalvi Sameer Krushna	18	17	18	11	10	11	9	12	11	15	16	16	Pass	
5	2021016402368930	Dalvi Nitin Pandharinath	18	16	17	15	11	13	10	12	11	16	15	16	Pass	
6	2021016402367140	Dhodade Ishvar Shantaram	16	18	17	14	14	14	10	11	11	16	16	16	Pass	
7	2021016402546360	Gajakosh Vicky Anil	8	9	9	9	8	9	10	9	10	8	14	11	Pass	
8	2021016402369360	Gharat Ashish Subhash	AB	18	9	AB	12	12	AB	15	8	AB	15	8	Pass	
9	2021016402367090	Gharat Manish Vishwanath	AB	16	8	14	AB	14	10	10	10	AB	16	8	Pass	
10	2021016402368630	Gharat Ruchit Chandrakant	15	17	16	12	11	12	6	9	8	12	14	13	Pass	
11	2021016402369090	Jadhav Harshad Sitaram	19	19	19	16	16	16	10	9	10	16	16	16	Pass	
12	2021016402369480	Jadhav Mrunali Vilas	9	19	14	12	10	11	11	8	10	14	16	15	Pass	
13	2021016402369910	Jadhav Shubham Sanjay	13	15	14	13	8	11	9	6	8	10	12	11	Pass	
14	2021016402369230	Jadhav Suraj Balu	AB	17	9	14	AB	14	5	10	8	AB	16	8	Pass	
15	2021016402369400	Mope Pratik Ashok	13	16	15	11	9	10	7	8	9	11	12	12	Pass	
16	2021016402369570	More Kunal Ravindra	13	16	15	14	9	12	7	9	10	12	14	14	Pass	
17	2021016402369940	Muknak Suraj Subhash	19	15	17	14	9	12	10	9	10	11	12	12	Pass	
18	2021016402369970	Pargaonkar Saksham Madhukar	19	18	19	12	8	10	9	8	9	15	15	15	Pass	
19	2021016402369930	Patare Tejas Dattatray	18	17	18	11	7	9	11	8	9	15	13	13	Pass	

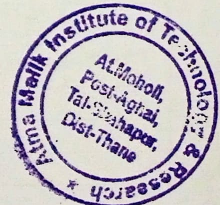


20	2021016402367050	Patil Abhijit Vitthal	9	16	13	12	6	9	8	8	8	11	14	13	Pass	(Patil)
21	2021016402369160	Patil Bhavik Sudhakar	19	16	18	13	7	10	11	8	10	12	13	13	Pass	(Patil)
22	2021016402368910	Patil Nirag Rajendra	19	17	18	12	15	14	12	11	12	17	16	17	Pass	(Patil)
23	2021016402369020	Patil Sanket Vijay	19	19	19	16	17	17	11	11	11	17	16	17	Pass	(Patil)
24	2021016402367110	Patil Tejas Dilip	18	17	18	12	8	10	10	8	9	15	15	15	Pass	(Patil)
25	2021016402369980	Patil Vinit Mohan	7	10	9	8	8	8	7	8	8	AB	15	8	Pass	(Patil)
26	2021016402367130	Pawar Chaitali Krushna	10	16	13	13	8	11	12	14	13	15	14	15	Pass	(Patil)
27	2021016402369130	Prajapati Vijay Kumar Karminath	19	18	19	10	9	10	10	7	9	15	14	15	Pass	(Patil)
28	2021016402368660	Rayat Mayuresh Eknath	6	16	11	11	9	10	10	8	9	14	12	13	Pass	(Patil)
29	2021016402370610	Sapat Suraj Vijay	18	17	18	11	8	10	12	9	11	14	16	15	Pass	(Patil)
30	2021016402369030	Sathe Imran Iqbal	17	0	9	8	9	9	8	7	8	14	10	12	Pass	(Patil)
31	2021016402369560	Tayade Ganesh Vasant	18	17	18	10	9	10	13	8	11	11	14	13	Pass	(Patil)
32	2021016402369050	Thakare Shivam Tanaji	17	17	17	12	9	11	10	5	8	15	14	15	Pass	(Patil)
33	2021016402367100	Thakare Vilas Ashok	18	18	18	12	10	11	11	11	11	13	16	15	Pass	(Patil)
34	2021016402369070	Mahale Hemlata Raghunath	18	18	18	13	12	13	12	10	11	16	16	16	Pass	(Patil)
35		Kalaskar Shubham Subhash	14	17	16	13	5	9	8	7	8	13	12	13	Pass	(Patil)
36		Patil Prasad Kanti	8	17	13	8	9	9	4	11	8	8	12	10	Pass	(Patil)

Total No. of students Present	36	36	36	36
Pass	36	36	36	36
Fail	0	0	0	0
RESULT %	100.00%	100.00%	100.00%	100.00%
Faculty	Prof. R. S. Gaikwad	Dr. S. K. Chaudhary	Dr. S. B. Chandgude	Prof. U. V. Patil
Subject	OPC	CM	TQM	PM


Prof. S. M. Patil
 Dept. Exam Incharge


Dr. S. B. Chandgude
 HOD





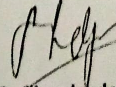
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Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

Department of Mechanical Engineering																			
ACAD-DI-23		Result Analysis Internal Assessment															Date: 30/04/2024		
Rev : 00																	Class: TE MECH		
Date: 11.07.2022		Semester: VI																	
Roll No	PRN No	Name of Student	MD			TM			HVAC & R			AAI			PTD			Final Status	Students Sign
			IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	IA-1	IA-2	Avg	Pass/ Fail (No.of KTs)	
1	2021016402353300	Dadhekar Sarthak Rashmikant	12	10	11	19	18	19	17	17	17	12	18	15	17	17	17	Pass	Dadhekar
2	2022016402172070	Dhasade Rushikesh Vasudev	11	14	13	18	19	19	14	17	16	9	18	14	15	15	15	Pass	Dhasade
3	2022016402172110	Dupare Amol Suresh	13	13	13	16	14	15	15	14	15	12	16	14	13	12	13	Pass	Dupare
4	2021016402353340	Jadhav Mayur Gurunath	10	9	10	15	12	14	12	15	14	14	16	15	14	15	15	Pass	Jadhav
5	2022016402172120	Patil Manish Rajendra	12	10	11	19	18	19	16	17	17	13	18	16	17	13	15	Pass	Patil
6	2022016402172680	Raut Ganesh Suresh	10	11	11	12	16	14	14	14	14	12	12	12	12	12	12	Pass	Raut
7	2022016402173190	Raut Kunjan Nitendra	10	10	10	17	19	18	15	14	15	12	13	13	16	11	14	Pass	Raut
8	2013016400738840	Sarmalkar Pavan Pundalik	AB	9	4	AB	10	5	AB	15	8	AB	17	9	AB	13	7	Fail (3 KT)	Sarmalkar
9	2022016402172130	Singh Suraj Ramsagar	10	14	12	15	15	15	14	16	15	12	17	15	15	15	15	Pass	Singh
10	2021016402353400	Goswami Satish Nanalal	AB	AB	AB	17	20	19	15	17	16	7	17	12	14	13	14	Fail (1 KT)	Goswami

Total No. of students Present	9	10	10	10	10
Pass	8	9	10	10	9
Fail	1	1	0	0	1
RESULT %	89%	90%	100%	100%	90%
Faculty	Prof. G. E. Chavan	Dr. D. R. Rajendran	Prof. S. M. Patil	Dr. D. R. Rajendran	Dr. S. K. Chaudhary
Subject	MD	TM	HVAC & R	AAI	PTD


Prof. S. M. Patil
Dept. Exam Incharge




Dr. S. B. Chandgude
HOD



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

ACAD-DI-22
Rev : 00
Date: 11.07.2022

Continuous Assessment Sheet

Academic Year: 2023 -24
Semester: I
Date of Preparation: 11.07.2022

Subject: DMS LAB		Semester:					Class: BE					Batch: A1					Academic Year: 2023 - 2024					Practical Conducti on	Theory Attd.	TW/PR Attd.	Assign ment	Total	Scaled	Sign. of student
Roll No.	Name of Student	Pract 1	Pract 2	Pract 3	Pract 4	Pract 5	Total Marks	Assg 1	Assg 2	Assg 3	Assg 4	Assg 5	Assg 6	Total Marks	10	5	5	5	25	25 / 50								
															10	5	5	5	25	25 / 50								
1	Adhikari Yadnesh Sunil	05	05	05	05	05	25	08	05	05	06	06	06	33	05	04	04	05	18	18								
2	Bhoir Viresh Suresh	10	10	10	10	10	50	09	10	10	10	10	10	59	10	05	04	04	23	23	<u>Bhoir</u>							
3	Bhovare Sahil Santosh	07	07	07	07	07	35	07	07	07	06	06	06	39	7	04	04	05	20	20	<u>Sahil</u>							
4	Dalavi Sameer Krushan	08	08	07	09	09	41	08	08	08	08	08	08	48	8	05	04	05	22	22	<u>Sameer</u>							
5	Dalvi Nitin Pandharinath	08	08	08	08	08	40	08	08	08	08	08	08	48	8	05	04	04	21	21	<u>Nitin</u>							
6	Dhodade Ishvar Shantaram	07	07	06	07	07	27	06	06	06	06	06	06	36	05	05	05	05	20	20	<u>Ishvar</u>							
7	Gajakosh Vicky Anil	06	06	06	06	06	30	06	06	06	06	06	06	36	06	05	04	04	19	19	<u>Vicky</u>							
8	Gharat Asnish Subhash	07	07	07	07	00	28	06	06	06	07	07	07	39	06	04	04	05	19	19	<u>Asnish</u>							
9	Gharat Manish Vishwnath	08	08	08	08	08	40	07	07	07	08	08	08	45	08	05	05	05	23	23	<u>Manish</u>							
10	Gharat Ruchit Chandrakant	07	07	07	07	08	29	07	07	07	08	08	08	45	06	05	04	05	20	20								
11	Jadhav Harshad Sitaram	10	10	10	10	09	49	10	10	10	10	10	10	60	10	04	04	04	22	22	<u>Harshad</u>							
12	Jadhav Mrunali Vilas	6	6	6	6	6	30	6	6	6	6	6	6	36	06	04	05	04	19	19								
13	Jadhav Shubham Sanjay	07	07	07	08	08	37	07	07	07	07	07	07	42	07	05	04	05	21	21								
14	Jadhav Suraj Balu	06	06	06	06	06	30	06	05	05	05	05	05	31	06	05	04	05	20	20								
15	Mope Pratik Ashok	07	07	07	07	07	35	08	08	08	08	08	08	48	07	05	05	05	22	22								
16	More Kunal Ravindra	07	07	07	07	07	35	07	07	07	07	07	07	42	07	05	05	05	22	22								
17	Muknak Suraj Subhash	06	06	06	06	06	30	05	05	05	05	05	05	30	06	04	05	04	19	19								

Subject Incharge

Head of Department



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

ACAD-DI-22
Rev : 00
Date : 11.07.2022

Continuous Assessment Sheet

Academic Year: 2023 -24
Semester: I
Date of Preparation: 11.07.2022

Subject: DMS LAB		Semester:		Class: BE		Batch: A2		Academic Year: 2023 - 2024										Theory Attd.	TW/PR Attd.	Assign ment	Total	Scaled	Sign. of student
Roll No.	Name of Student	Pract 1	Pract 2	Pract 3	Pract 4	Pract 5	Total Marks	Assg 1	Assg 2	Assg 3	Assg 4	Assg 5	Assg 6	Total Marks	Practical Conducti on								
															10	5	5	5	25	25 / 50			
18	Pargaonkar Saksham M	06	06	06	06	06	30	05	05	05	05	05	05	30	06	04	04	03	17	17			
19	Patare Tejas Dattatray	06	06	06	06	06	30	05	05	05	05	05	05	30	06	04	04	03	17	17			
20	Patil Abhijeet Vitthal	08	08	08	08	08	40	08	08	08	07	07	07	45	08	04	04	04	20	20			
21	Patil Bhavik Sudhakar	08	08	07	07	07	37	06	06	06	07	07	07	39	07	04	04	04	19	19	Boali		
22	Patil Niraj Rajendra	10	10	10	10	09	49	10	10	10	10	10	09	59	10	04	05	05	24	24	Patil		
23	Patil Sanket Vijay	10	10	09	10	10	49	10	10	09	10	10	09	58	10	04	05	05	24	24	Patil		
24	Patil Tejas Dilip	08	08	08	08	07	39	07	07	07	08	08	08	45	09	05	05	04	23	23	Patil		
25	Patil Vinit Mohan	05	05	05	05	05	30	05	05	05	05	05	05	30	06	04	04	03	17	17			
26	Pawar Chaitali Krushna	07	07	07	07	07	35	08	08	08	08	08	08	48	07	04	04	04	19	19	Patil		
27	Prajapati Vijay Karanath	07	07	06	06	06	32	06	06	06	06	06	06	36	06	04	04	03	17	17			
28	Rayat Mayuresh Eknath	06	06	06	06	06	30	06	06	06	06	06	06	36	06	04	04	03	17	17			
29	Sapat Suraj Vijay	07	07	07	07	07	35	07	07	07	07	07	07	42	07	05	05	04	21	21			
30	Sathe Imran Iqbal	07	07	07	07	07	35	07	07	07	06	06	06	39	07	04	04	03	18	18			
31	Tayade Ganesh Vasant	06	06	06	06	06	30	06	06	06	06	06	06	36	06	04	04	03	17	17	Patil		
32	Thakare Shivam Tanaji	08	08	08	08	08	40	08	07	07	07	07	07	43	08	05	05	03	21	21			
33	Thakare Vilas Ashok	09	09	09	09	08	44	08	08	08	08	08	08	48	09	05	05	04	23	23	Patil		
34	Mahale Hemlata Raghunath	09	09	09	09	09	45	09	09	09	09	09	09	54	09	05	05	04	23	23	Patil		

Subject Incharge

Head of Department



!! Sabka Malik Atma!!

Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

Academic Year-2023-24

Subject-HVACR

Class- TE MECH

SEM- VI

Attainment of Course Outcome through Assignments

Roll No.	Name of student	CO1			CO2			CO3			CO4			CO5			CO6		
		Max Marks	Obtain d	% marks	Max Marks	Obtain d	% marks	Max Marks	Obtain d	% marks	Max Marks	Obtain d	% marks	Max Marks	Obtain d	% marks	Max Marks	Obtain d	% marks
1	Dadhekar Sarthak Rashmikant	10	9	90	10	8	80	10	9	90	10	9	90	10	8	80	10	8	80
2	Dhasade Rushikesh Vasudev	10	9	90	10	8	80	10	9	90	10	9	90	10	8	80	10	8	80
3	Dupare Amol Suresh	10	7	70	10	7	70	10	7	70	10	8	80	10	8	80	10	7	70
4	Jadhav Mayur Gurunath	10	7	70	10	8	80	10	8	80	10	8	80	10	8	80	10	8	80
5	Patil Manish Rajendra	10	8	80	10	9	90	10	8	80	10	8	80	10	9	90	10	9	90
6	Raut Ganesh Suresh	10	8	80	10	8	80	10	8	80	10	8	80	10	8	80	10	8	80
7	Raut Kunjan Nitendra	10	7	70	10	8	80	10	8	80	10	7	70	10	7	70	10	8	80
8	Sarmalkar Pavan Pundalik	10	5	50	10	5	50	10	5	50	10	5	50	10	6	60	10	6	60
9	Singh Suraj Ramsagar	10	7	70	10	7	70	10	7	70	10	8	80	10	7	70	10	8	80
10	Goswami Satish Nanalal	10	8	80	10	8	80	10	8	80	10	8	80	10	8	80	10	8	80
Total appeared students (B)		10			10			10			10			10			10		
No. of students obtaining more than 50% marks (A)		9			9			9			9			10			10		
% CO attainment = (A/B) X 100		90			90			90			90			100			100		
AL = % age No. of students achieving		3			3			3			3			3			3		

NOTE:	Attainment Level 1	50% to 70% students scoring more than 50% marks out of the relevant maximum marks
	Attainment Level 2	70 to 80% students scoring more than 50% marks out of the relevant maximum marks
	Attainment Level 3	80 to 100 % students scoring more than 50% marks out of the relevant maximum marks

Subject Teacher

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-26 A	Evaluation Project Review (Mini Project 1A)	Academic Year: 2023-24
Rev : 00		Semester: ODD
Date: 11-7-2022		

Class: SE

Marks: 25

Examiner Name: *Prof. Amit Dalavi*

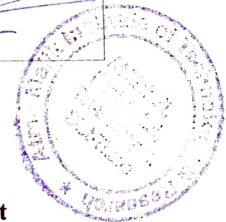
Date: *04/11/23*

Roll No.	Name of Student	Topic	Problem Identification	Literature Survey	Project Outcome	Team work	Presentation Skill
02	Bhangare Sachin Kalu	Solenoid Electromagnetic Engine	04	04	05	05	04
05	Naik Viraj Vilas		04	04	04	05	04
01	Baderao Pranit Santosh		04	04	04	04	05
03	Chavan Khushal Devidas	Electromagnetic Braking System	04	04	04	04	03
04	Jadhav Ravikant Yashwant		04	04	04	04	03
06	Patil Jadnika		04	04	04	04	03

Panel I/C Name	No of students			Sign
	Appeared	Present	Absent	
Prof. G. E. Chavan Prof. U. V. Patil Prof. R. S. Gaikwad Prof. S. M. Patil Dr. S. K. Chaudhary	06	06	00	<i>[Signatures]</i>

[Signature]
Prof. S. M. Patil
Project Coordinator

[Signature]
Prof. U. V. Patil
Head of the Department





!!Sabka Malik Atma!!

Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

ACAD-DI-26 A	Evaluation Project Review (Mini Project 2A)	Academic Year: 2023-24
Rev : 00		Semester: ODD
Date: 11-7-2022		

Class: TE

Marks: 25

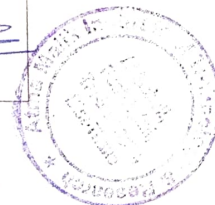
Examiner Name: Prof. Amit Daloo **Date:** 04/11/23

Roll No.	Name of Student	Topic	Problem Identification	Literature Survey	Project Outcome	Team work	Presentation Skill
09	SINGH SURAJ RAMSAGAR	Solar Tracking System	04	04	04	04	04
02	DHASADE RUSHIKESH		04	05	05	04	04
05	PATIL MANISH RAJENDRA		04	04	04	04	04
01	DADHEKAR SARTHAK RASHMIKANT	Mass Rover	05	04	05	05	04
04	JADHAV MAYUR GURUNATH		04	04	05	05	04
08	SARMALKAR PAVAN PUNDALIK		03	03	03	04	03
06	RAUT GANESH SURESH	Case Study on ACG Associated Capsule Pvt. Ltd, Dahanu	04	04	04	04	03
07	RAUT KUNJAN NITENDRA		04	03	04	04	03
03	DUPARE AMOL SURESH		04	04	04	05	04

Panel I/C Name	No of students			Sign
	Appeared	Present	Absent	
Prof. G. E. Chavan Prof. U. V. Patil Prof. R. S. Gaikwad Prof. S. M. Patil Dr. S. K. Chaudhary	09	09	00	

Prof. S. M. Patil
Project Coordinator

Prof. U. V. Patil
Head of the Department





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

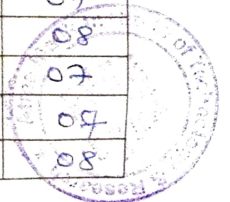
ACAD-DI-26 A	Evaluation Project Review (Major Project I)	Academic Year: 2023-24
Rev : 00		Semester: ODD
Date: 11-7-2022		

Class: BE

Marks: 50

Examiner Name: Prof. Amit Daldoi Date: 04/11/2023.

Roll No.	Name of Student	Topic	Problem Identification	Literature Survey	Project Outcome	Team work	Presentation Skill
02	BHOIR VIRESH SURESH	Artificial Intelligence Based Fire Fighting Robot Vehicle	09	09	09	10	09
11	JADHAV HARSHAD SITARAM		09	09	09	10	09
22	PATIL SANKET VIJAY		09	09	09	10	09
21	PATIL NIRAG RAJENDRA		09	09	09	09	09
08	GHRAT ASHISH SUBHASH	Design and Development of Pedal Operated Bench	07	07	07	07	07
09	GHRAT MANISH VISHWANATH		08	07	07	08	07
10	GHRAT RUCHIT CHANDRAKANT		07	07	07	08	07
06	DHODADE ISHVAR SHANTARAM		08	07	07	08	07
32	THAKARE SHIVAM TANAJI	Design and Development of Staircase Power Generation using Spring and Gear Mechanism	08	07	08	08	07
19	PATIL ABHIJIT VITTHAL		08	07	08	08	07
13	JADHAV SHUBHAM SANJAY		08	07	08	08	07
29	SAPAT SURAJ VIJAY		08	08	08	08	08
04	DALVI SAMEER KRUSHNA	Multi Point Fuel Injection System	07	07	07	08	07
05	DALVI NITIN PANDHARINATH		08	08	08	08	07
16	MORE KUNAL RAVINDRA		08	08	08	08	08





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Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

12	JADHAV MRUNALI VILAS	Solar Based Battery Cycle	07	07	08	08	08
26	PRAJAPATI VIJAY KUMAR KARMNATH		06	07	07	07	07
31	TAYADE GANESH VASANT		07	08	08	08	08
24	PATIL VINIT MOHAN		06	06	06	06	06
20	PATIL BHAVIK SUDHAKAR	Design and Fabrication of Solar Powered Grass Cutter	08	08	08	08	08
03	BHOVARE SAHIL SANTOSH		07	07	07	07	07
01	ADHIKARI YADNYESH SUNIL		07	06	06	07	06
27	PARGAONKAR SAKSHAM MADHUKAR		07	07	07	07	07
30	SATHE IMRAN IQBAL	Fabrication of Automated Sprayer for Agriculture Purpose	07	07	08	07	07
28	RAYAT MAYURESH EKNATH		07	07	08	07	07
15	MOPE PRATIK ASHOK		07	07	08	08	07
33	THAKARE VILAS ASHOK		08	08	08	08	08
25	PAWAR CHAITALI KRUSHNA	Demonstration of 360 degree Wheel Rotating Vehicle	07	07	08	07	07
23	PATIL TEJAS DILIP		07	07	06	07	07
18	PATARE TEJAS DATTATRAY		07	07	06	07	07
17	MUKNAK SURAJ SUBHASH		07	07	07	08	07
07	GAJAKOSH VICKY ANIL	Design and Fabrication of automatic rain operated wiper	07	07	07	08	07
14	JADHAV SURAJ BALU		07	07	07	08	08
34	MAHALE HEMLATA RAGHUNATH		08	08	08	09	08



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

Panel I/C Name	No of students			Sign
	Appeared	Present	Absent	
Prof. G. E. Chavan Prof. U. V. Patil Prof. R. S. Gaikwad Prof. S. M. Patil Dr. S. K. Chaudhary	34	34	00	  


Prof. S. M. Patil
Project Coordinator




Prof. U. V. Patil
Head of the Department

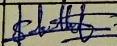
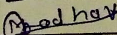
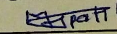
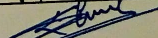


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Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-22
Rev : 00
Date: 11.07.2022

Continuous Assessment Sheet

Academic Year: 2023-24
Semester: II
Date of Preparation: 08.01.2024

Subject: HVAC &R		Semester: VI		Class: TE		Batch: A1		Academic Year: 2023 - 2024										
Roll. No.	Name of Student	Expt 1	Expt 2	Expt 3	Expt 4	Expt 5	Expt 6	Expt 7	Expt 8	Expt 9	Total Marks	Practical Conducti on	TW/ PR Attd.	Theo ry Attd.	Assign ment	Total	Scaled	Sign. of student
												10	5	5	5	25	25 / 50	
1	Dadhekar Sarthak Rashmikant	09	09	09	09	09	09	08	08		70	09	04	04	05	22	25	
2	Dhasade Rushikesh Vasudev	09	09	09	09	08	09	07	08		68	09	04	04	05	22	25	
3	Dupare Amol Suresh	08	08	07	06	08	08	05	07		57	07	03	03	04	17	25	
4	Jadhav Mayur	09	09	09	09	08	08	07	08		67	08	04	04	04	20	25	
5	Patil Manish Rajendra	09	09	09	09	08	08	08	08		68	09	04	04	05	22	25	
6	Raut Ganesh Suresh	08	08	07	08	08	09	07	08		63	08	03	03	04	18	25	
7	Raut Kunjan Nitendra	07	06	06	06	07	08	06	08		54	07	03	03	03	16	25	
8	Sarmalkar Pawan Pundlik	05	05	05	05	05	05	05	05		40	05	02	03	02	12	25	
9	Singh Suraj Ramsagar	07	06	07	06	07	08	06	07		54	07	03	03	03	16	25	
10	Gowami Satish Nandalal	07	09	06	09	08	08	08	07		62	08	03	04	04	19	25	

Subject Incharge

MARKS DISTRIBUTION FOR THEORY / TERM WORK / PRACTICAL ATTENDANCE

Above 85%
81% to 85%
75% to 80%
70% to 74%
Below 70%

10
7
4
0
0



HOD



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

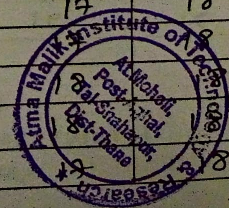
ACAD-DI-26 A	Evaluation Project Review (Major Project II)	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		

Class: BE

Marks: 100

Examiner Name: Dr. D. P. Rajendran Date: 22/04/2024.

Roll No.	Name of Student	Topic	Problem Identification (20)	Literature Survey (20)	Project Outcome (20)	Team work (20)	Presentation Skill (20)
02	BHOIR VIRESH SURESH	Artificial Intelligence Based Fire Fighting Robot Vehicle	17	18	17	18	18
11	JADHAV HARSHAD SITARAM		17	18	17	18	18
22	PATIL SANKET VIJAY		17	17	17	18	18
21	PATIL NIRAG RAJENDRA		17	17	17	18	17
08	GHARAT ASHISH SUBHASH	Design and Development of Pedal Operated Bench	17	17	17	18	18
09	GHARAT MANISH VISHWANATH		17	17	17	18	18
10	GHARAT RUCHIT CHANDRAKANT		17	17	17	18	17
06	DHODADE ISHVAR SHANTARAM		17	17	17	18	18
32	THAKARE SHIVAM TANAJI	Design and Development of Staircase Power Generation using Spring and Gear Mechanism	17	17	17	18	18
19	PATIL ABHIJIT VITTHAL		17	17	17	18	17
13	JADHAV SHUBHAM SANJAY		17	17	17	18	18
29	SAPAT SURAJ VIJAY		17	17	17	18	18
04	DALVI SAMEER KRUSHNA	Multi Point Fuel Injection System	17	17	17	18	18
05	DALVI NITIN PANDHARINATH		17	17	17	18	18
16	MORE KUNAL RAVINDRA		17	17	17	18	17



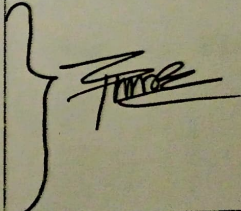


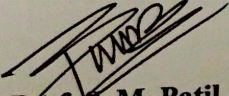
!!Sabka Malik Atma!!
Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

36	PATIL PRASAD KANTI		15	15	16	16	16
12	JADHAV MRUNALI VILAS	Solar Based Battery Cycle	17	17	17	17	17
26	PRAJAPATI VIJAY KUMAR KARMNATH		17	17	17	18	17
31	TAYADE GANESH VASANT		17	17	16	17	17
24	PATIL VINIT MOHAN		16	16	16	16	16
20	PATIL BHAVIK SUDHAKAR		16	16	16	17	16
03	BHOVARE SAHIL SANTOSH	Design and Fabrication of Solar Powered Grass Cutter	16	16	15	16	16
01	ADHIKARI YADNYESH SUNIL		16	16	16	16	16
27	PARGAONKAR SAKSHAM MADHUKAR		17	17	16	17	17
30	SATHE IMRAN IQBAL		16	16	16	17	17
28	RAYAT MAYURESH EKNATH	Fabrication of Automated Sprayer for Agriculture Purpose	17	17	16	17	17
15	MOPE PRATIK ASHOK		17	17	17	17	17
33	THAKARE VILAS ASHOK		17	17	16	17	17
25	PAWAR CHAITALI KRUSHNA		17	17	18	18	18
23	PATIL TEJAS DILIP	Demonstration of 360 degree Wheel Rotating Vehicle	16	17	16	17	17
18	PATARE TEJAS DATTATRAY		17	17	17	17	17
17	MUKNAK SURAJ SUBHASH		17	17	17	17	17
07	GAJAKOSH VICKY ANIL			16	16	17	17
14	JADHAV SURAJ BALU	Design and Fabrication of automatic rain operated wiper		16	16	16	16
34	MAHALE HEMLATA RAGHUNATH		17	17	17	17	17
35	KALASKAR SHUBHAM		16	16	16	17	17

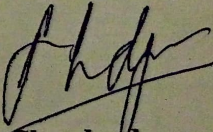


!!Sabka Malik Atma!!
Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

Panel I/C Name	No of students			Sign
	Appeared	Present	Absent	
Dr. S. B. Chandgude Dr. D. R. Rajendran Prof. G. E. Chavan Prof. U. V. Patil Prof. R. S. Gaikwad Prof. S. M. Patil Dr. S. K. Chaudhary	36	36	00	


Prof. S. M. Patil
Project Coordinator




Dr. S. B. Chandgude
Head of the Department



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

ACAD-DI-26 A	Evaluation Project Review (Mini Project 2B)	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		

Class: TE

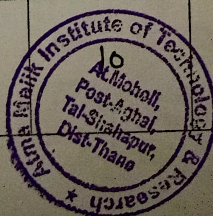
Marks: 25

Examiner Name: Dr. D. R. Rajendran Date: 19/04/24

Roll No.	Name of Student	Topic	Problem Identification (05)	Literature Survey (05)	Project Outcome (05)	Team work (05)	Presentation Skill (05)
09	SINGH SURAJ RAMSAGAR	Solar Tracking System	04	04	04	04	04
02	DHASADE RUSHIKESH		04	04	04	05	05
05	PATIL MANISH RAJENDRA		04	04	04	05	05
01	DADHEKAR SARTHAK RASHMIKANT	Mars Rover	05	05	04	05	05
04	JADHAV MAYUR GURUNATH		04	04	04	05	04
08	SARMALKAR PAVAN PUNDALIK		04	04	04	04	04
10	GOWAMI SATISH NANDLAL		04	04	04	04	04
06	RAUT GANESH SURESH	Case Study on ACG Associated Capsule Pvt. Ltd, Dahanu	04	04	04	05	04
07	RAUT KUNJAN NITENDRA		04	04	04	05	05
03	DUPARE AMOL SURESH		04	04	04	05	05

Panel I/C Name	No of students			Sign
	Appeared	Present	Absent	
Prof. G. E. Chavan Prof. U. V. Patil Prof. R. S. Gaikwad Prof. S. M. Patil Dr. S. K. Chaudhary		10	00	}

Project Coordinator



Dr. S. B. Chandgude
Head of the Department



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

ACAD-DI-26 A	Evaluation Project Review (Mini Project 1B)	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		

Class: SE

Marks: 25

Examiner Name: Dr. D. R. Rajendran Date: 18/04/24

Roll No.	Name of Student	Topic	Problem Identification	Literature Survey	Project Outcome	Team work	Presentation Skill
02	Bhangare Sachin Kalu	Solenoid Electromagnetic Engine	03	03	03	04	03
05	Naik Viraj Vilas		03	03	03	04	03
01	Baderao Pranit Santosh		03	03	03	04	03
03	Chavan Khushal Devidas	Electromagnetic Braking System	03	03	03	04	04
04	Jadhav Ravikant Yashwant		03	03	03	04	04
06	Patil Jadnika Thakur		04	03	03	04	04

Panel I/C Name	No of students			Sign
	Appeared	Present	Absent	
Dr. D. R. Rajendran Dr. S. K. Chaudhary Prof. G. E. Chavan Prof. U. V. Patil Prof. R. S. Gaikwad Prof. S. M. Patil	06	06	00	

Prof. S. M. Patil
Project Coordinator



Dr. S. B. Chandgude
Head of the Department

!! Sabka Malik Atma!!

Vishwatmak Jangli Maharaj Ashram Trust's



Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

Academic Year-2023-24

Subject Teacher: Prof. S. M. Patil

Subject-DOM

Class- TE MECH

SEM- V

Attainment of Course Outcome through Course Exit Survey

Note - Attainment of COs through Course end survey shall be self-assessment of achievement of COs. Each student will grade four levels in self-assessment. (Level 1: Not competent, 2: Somewhat competent, 3: Competent, 4: Excellent).

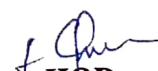
Sr. No.	Roll No.	Name of student	Attainment Level					
			CO1	CO2	CO3	CO4	CO5	CO6
1	1	Dadhekar Sarthak Rashmikant	4	3	4	4	3	4
2	2	Dhasade Rushikesh Vasudev	3	3	2	3	3	3
3	3	Dupare amol Suresh	3	2	3	2	3	3
4	4	Jadhav Mayur Gurunath	4	3	4	4	3	4
5	5	Patil Manish Rajendra	3	4	4	3	4	3
6	6	Raut Ganesh Suresh	3	3	3	3	3	3
7	7	Raut Kunjan Nitendra	4	2	4	3	3	3
8	8	Sarmalkar pavan pundalik	3	3	4	4	3	3
9	9	Singh Suraj Ramsagar	3	4	4	3	3	3
Total appeared students (B)			9	9	9	9	9	9
No. of students obtaining more than 50% marks (A)			9	7	8	8	9	9
% of students successfully attained Cos = (A/B)*100			100	78	89	89	100	100
AL = % age No. of students achieving target AL 1: 50 – 70 % AL 2: 70 – 80% AL 3: 80 – 90%			3	2	3	3	3	3

NOTE:	Attainment Level 1	50% to 70% students attained CO successfully
	Attainment Level 2	70% to 80% students attained CO successfully
	Attainment Level 3	80% to 100% students attained CO successfully


Subject Incharge




Dept. Academic Coordinator


HOD

!! Sabka Malik Atma!!



Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

Academic Year-2023-24

Subject-HYACR Class- TE MECH

Subject Teacher: Prof. S. M. Patil

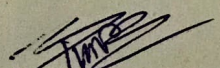
SEM- VI

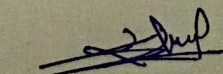
Attainment of Course Outcome through Course Exit Survey

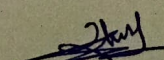
Note - Attainment of COs through Course end survey shall be self-assessment of achievement of COs. Each student will grade four levels in self-assessment.(Level 1: Not competent, 2: Somewhat competent, 3:Competent, 4: Excellent).

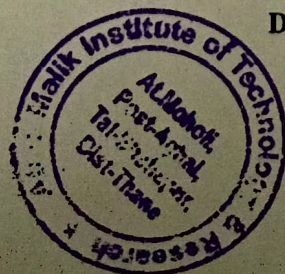
Sr. No.	Roll No.	Name of student	Attainment Level					
			CO1	CO2	CO3	CO4	CO5	CO6
1	1	Dadhekar Sarthak Rashmikan	4	4	3	4	3	4
2	2	Dhasade Rushikesh Vasudev	4	3	4	3	4	3
3	3	Dupare Amol Suresh	4	4	3	4	3	4
4	4	Jadhav Mayur Gurunath	4	3	4	3	2	3
5	5	Patil Manish Rajendra	4	4	3	4	3	4
6	6	Raut Ganesh Suresh	4	3	4	3	4	3
7	7	Raut Kunjan Nitendra	4	4	3	2	3	3
8	8	Sarmalkar Pavan Pundalik	2	3	3	3	2	3
9	9	Singh Suraj Ramsagar	4	4	3	4	3	4
10	10	Goswami Satish Nanalal	4	3	4	3	4	3
Total appeared students (B)			10	10	10	10	10	10
No. of students obtaining more than 50%			9	10	10	9	8	10
of studnts successfully attained Cos = (A/B)*100			90	100	100	90	80	100
AL = % age No. of students achieving			3	3	3	3	3	3

NOTE:	Attainment Level 1	50% to 70% students attained CO successfully
	Attainment Level 2	70% to 80% students attained CO successfully
	Attainment Level 3	80% to 100% students attained CO successfully


Subject Incharge


Dept. Academic Coordinator


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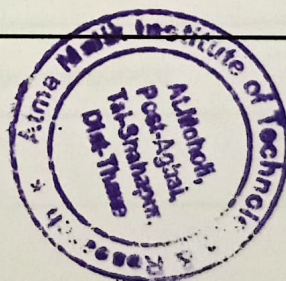
ATMA MALIK INSTITUTE OF TECHNOLOGY AND RESEARCH (AMRIT)

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



Vishwamk 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	
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	
13		Measurements and Automation	Prof. R. S. Gaikwad	38	36	NA	NA	NA	92%	NA	<i>[Signature]</i>
14	BE	Operations Planning & Control	Prof. R. S. Gaikwad	NA	NA	NA	9	9	NA	100%	<i>[Signature]</i>
15		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	
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:

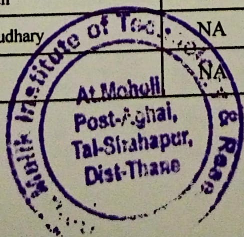
Academic monitoring report

Academic Year: 2023-24
 Semester: ~~ODD~~ **EVEN**
 Date of Preparation: 1.4.2024

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-IV	Prof. Prashant Bijwe	15	12	NA	NA	NA	82%	NA	<i>[Signature]</i>
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%	<i>[Signature]</i>
4		CAD/CAM	Prof. R. S. Gaikwad	15	15	NA	NA	NA	95%	NA	<i>[Signature]</i>
5		Industrial Electronics	Prof. Y. S. Gaikwad	14	12	NA	2	2	90%	95%	
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%	<i>[Signature]</i>
8	TE	Machine Design	Prof. G. E. Chavan	13	11	NA	2	2	92%	90%	
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%	<i>[Signature]</i>
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	
13		Measurements and Automation	Prof. R. S. Gaikwad	NA	NA	NA	3	3	NA	95%	<i>[Signature]</i>
14	BE	Operations Planning & Control	Prof. R. S. Gaikwad	13	15	2	NA	NA	98%	NA	<i>[Signature]</i>
15		Composite Material	Prof. Dr. S. K. Chaudhary	13	11	NA	NA	NA	85%	NA	<i>[Signature]</i>
16		Total Quality Management	Dr. S. B. Chandgude	15	13	NA	NA	NA	86%	NA	<i>[Signature]</i>
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%	
19		Laboratory Based on IOT	Prof. XYZ	NA	NA	NA	2	2	NA	92%	<i>[Signature]</i>

[Signature]
 Academic Coordinator



[Signature]
 HOD

ACAD-DI-15 A	Academic monitoring report	Academic Year: 2023 -24
Rev : 00		Semester: EVEN
Date: 11.07.2022		Date of Preparation: 31.01.2024

Date: 11.07.2022											
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		BE	Operations Planning & Control	Prof. R. S. Gaikwad	11	11	3	NA	NA	28%	NA
15	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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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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Department of Mechanical Engineering

Report on Content beyond Syllabus

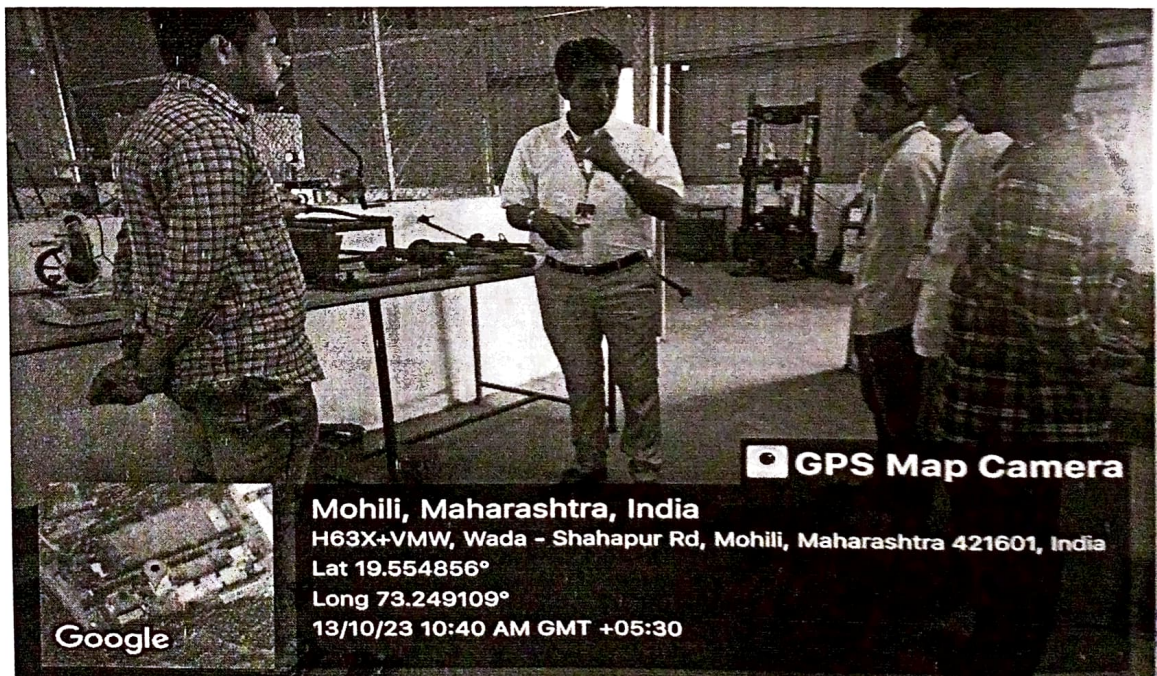
Subject Name: Design of Mechanical System

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



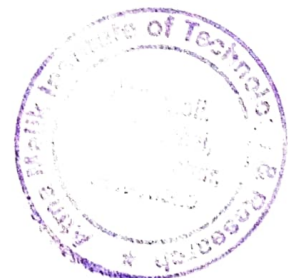
Worm Gears



Screw Gears



Internal Gears





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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°

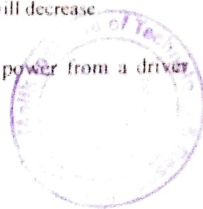
13/10/23 10:42 AM GMT +05:30

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.



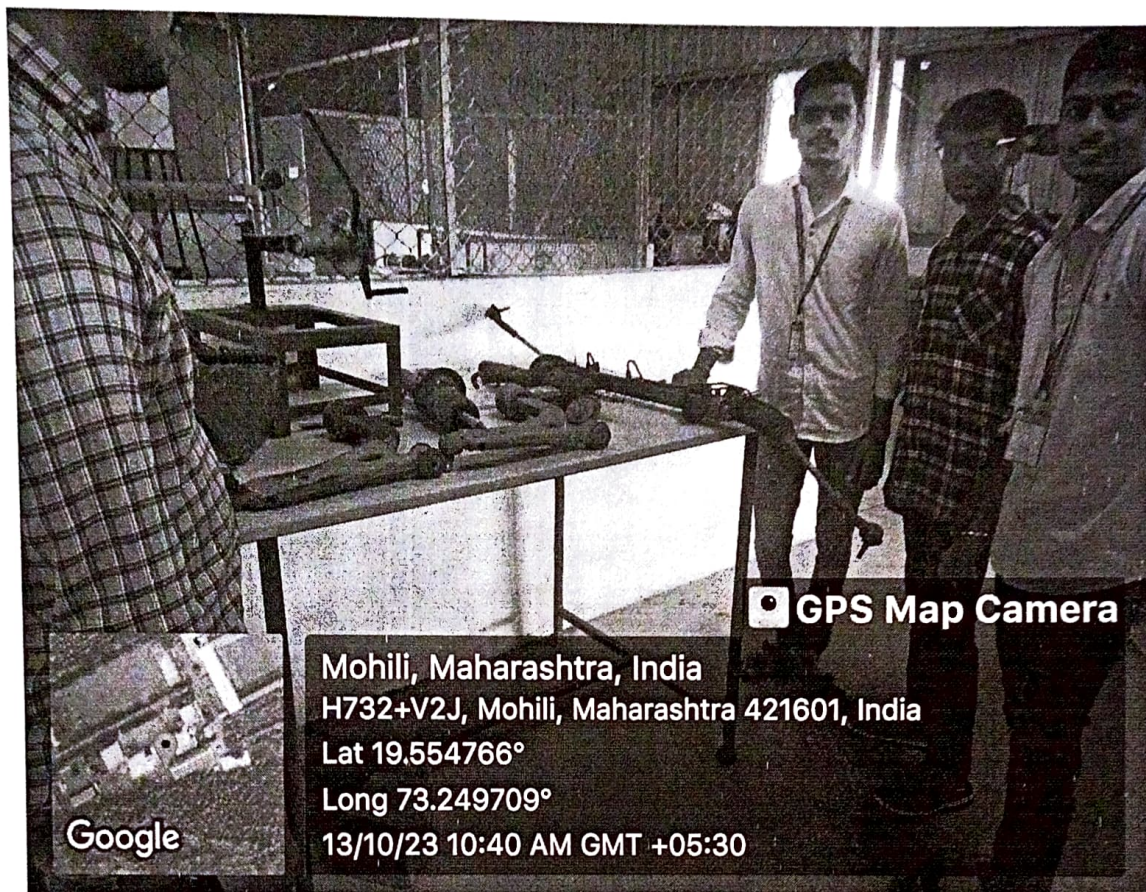


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Department of Mechanical Engineering



GPS Map Camera

Mohili, Maharashtra, India

H732+V2J, Mohili, Maharashtra 421601, India

Lat 19.554766°

Long 73.249709°

13/10/23 10:40 AM GMT +05:30

Google





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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.

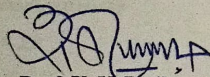




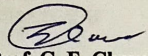
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Department of Mechanical Engineering

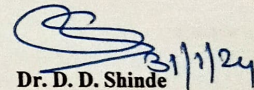
Summary: ,

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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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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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...



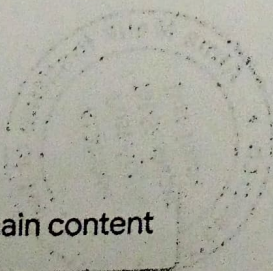
2023-24 NEP-10 Proj...

18 Dec 2023 to 22 Dec 2023

Roli Pradhan



TE Dynamics of Mach...



Skip to main content



✎ 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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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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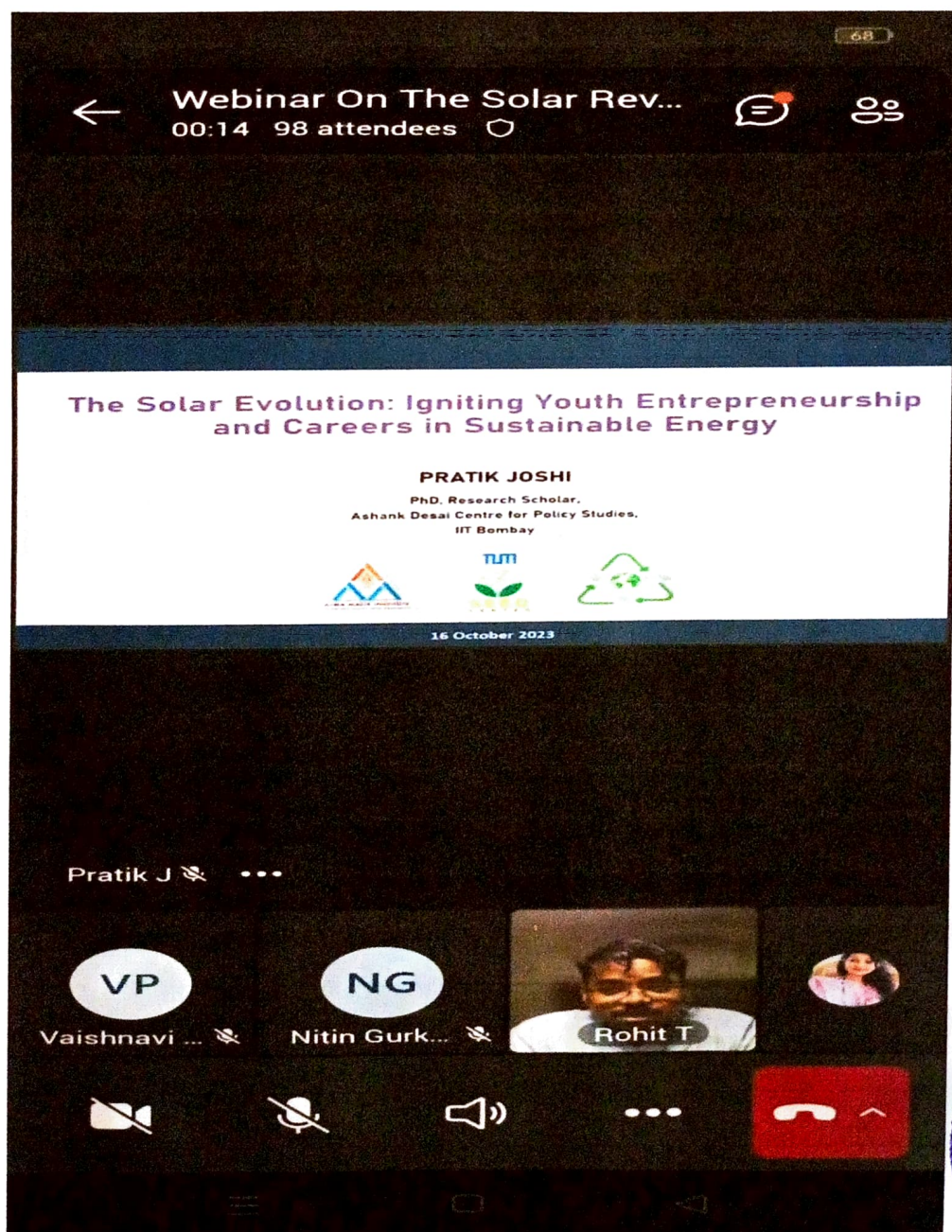
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Atma Malik Institute of Technology & Research (AMRIT)

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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teams.live.com/_?tenantid=13A46857-42E2-4771-9A40-5A5F1E1E1E1E

Google | YouTube | Maps | Mail | Outlook | Downloads | Login | 04:00 | 01/10/2023

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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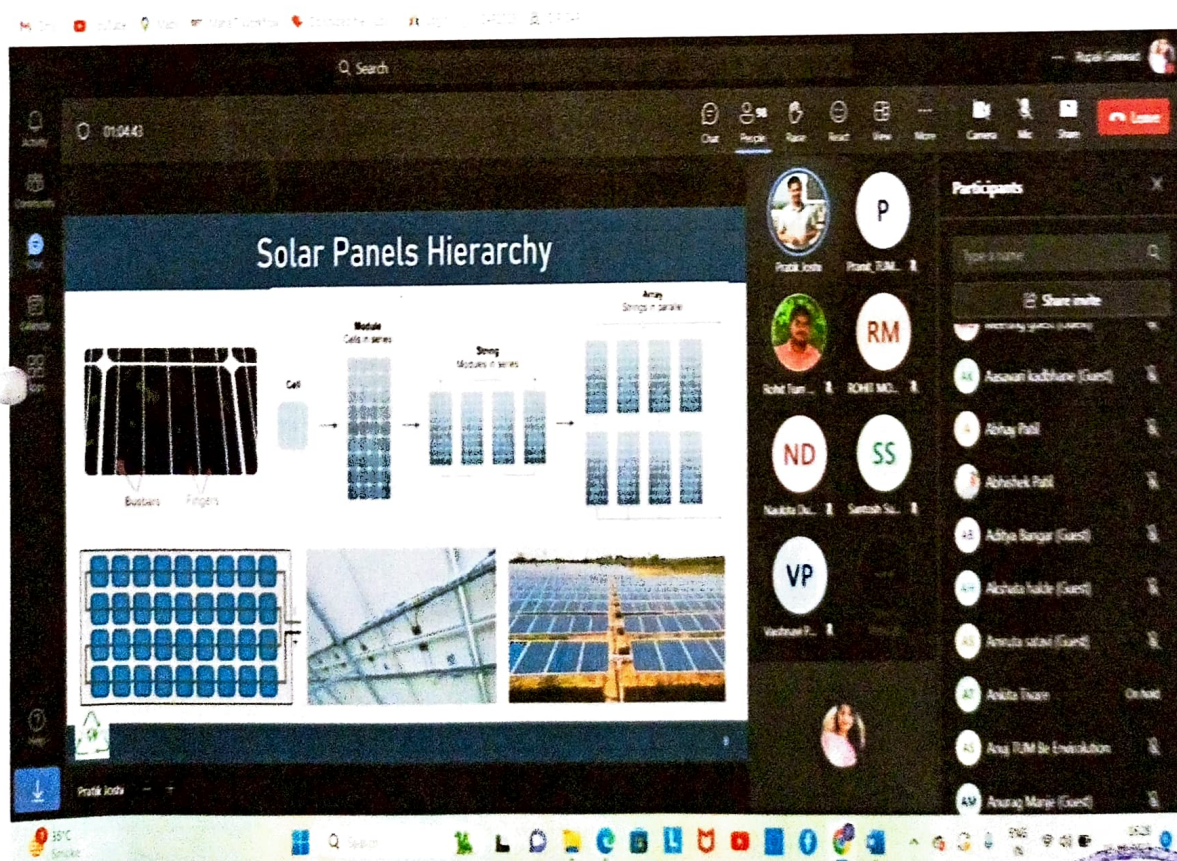
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Atma Malik Institute of Technology & Research (AMRIT)

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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Department of Mechanical Engineering

Benefits and challenges of PV systems

Benefits	Challenges
• Flexible capacity building	• High upfront cost
• Stationary structure	• Space Availability
• Easy installation	• Grid stability and safety
• Increased energy independence	• Intermittency
• Reduced environmental impact	• 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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Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

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 Gurunath Jadhav	7276184865	TE	Mech	Mayur
20	Amol Suresh Dufare	7620553859	TE	Mech	Amol
21	Satish Padmakar	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





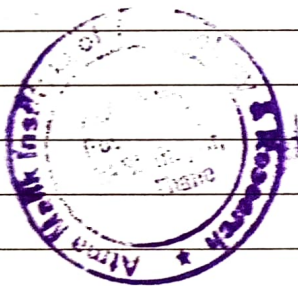
!! Sabka Malik Atma !!

Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

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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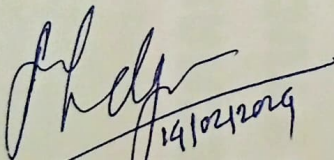
Atma Malik Institute of Technology & Research

Department of Mechanical Engineering

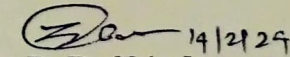
ACAD-DI-68	Notice	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11/07/2022		

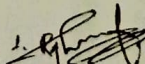
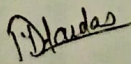
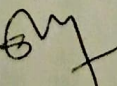
Date 14/02/2024

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

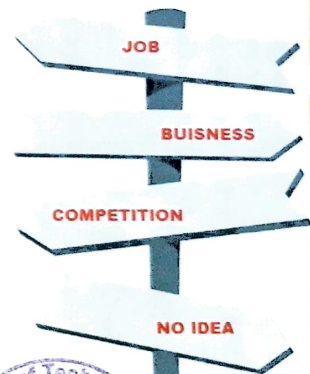


- **Expert Lecture on “After Graduation, What?”**
- **Speaker Name:- Prof. S. R. Das**

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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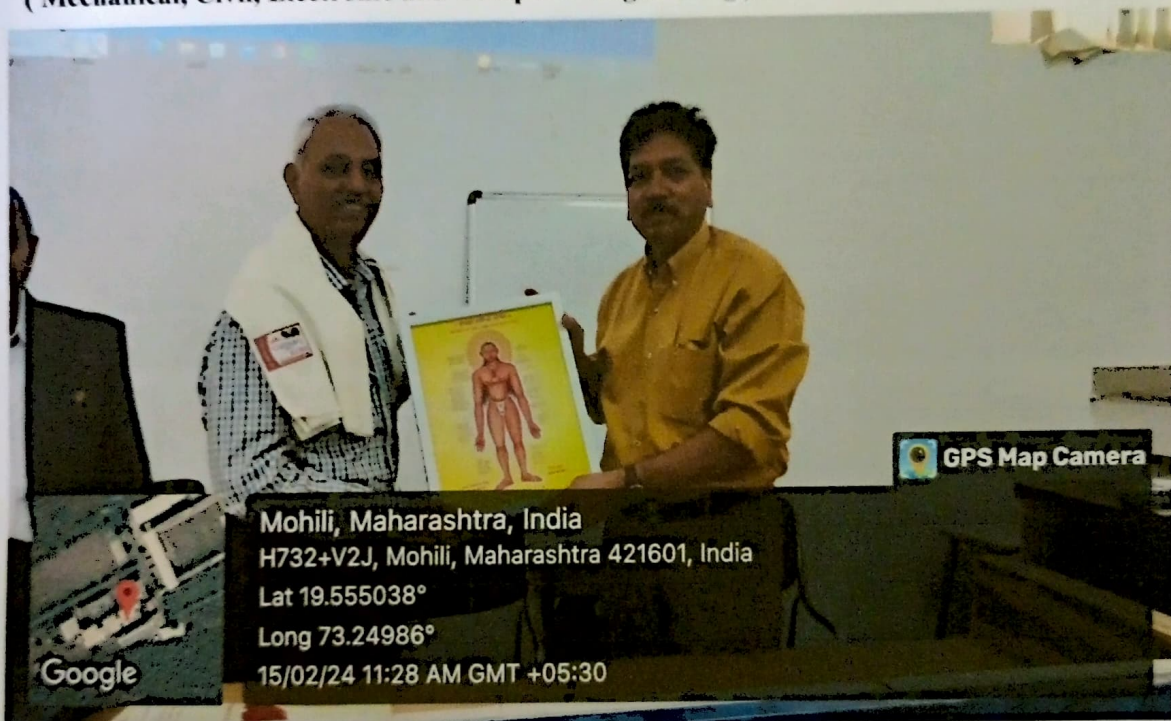
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Atma Malik Institute of Technology & Research (AMRIT)

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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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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Vishwatmak Jangli Maharaj Ashram Trust's

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	RALE ANKASH SANJAY	CIVIL	BE	<i>Rale</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>





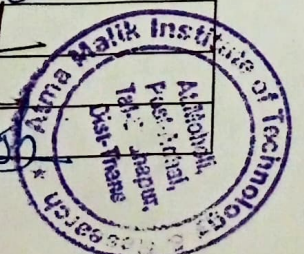
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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

25	Jethe Avinash Ballonash	BE	civil	ABDune
26	Kamble urmila Ravindra	BE	civil	Kurra
27	Kheratmol Vinayak Vaidnath	BE	civil	Ameyak
28	yadnesn S. Adwikri	B.E	mech	Aacharya
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	Ghansal
36	Ruchit C. Ghoniat	B.E	mech	Ruchit
37	Harshad S. Jadhav	B.E	mech	Jadhav
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	Siddhes Bodake	BE	Comp	Siddhes
50	Lalit Borse	BE	Comp	Lalit
51	Biranjye Sweta Kalagonda	T.E.	Comp	Biranjye
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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Department of Mechanical Engineering

85	Bhagyashree Jadhav	comp	BE	<u>Radhak</u>
86	Jadhav Devyani	comp	BE	<u>Chand</u>
87	Jadhav Snehal Mathani	comp	BE	<u>Snehal</u>
88	Jadhav Prapti Chandrakant	comp	BE	<u>Prapti</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 Sushant Mahesh	comp	TE	<u>Dinkar</u>
98	Akshay Sanjay Malenkar	Comp	BE	<u>Akshay</u>
99	Prayanika Dattatraya Mahasthe	comp	BE	<u>Prayanika</u>
100	Jaydeep Shantaram Patil	comp	BE	<u>Jaydeep</u>
101	Aarush B. Patil	comp	TE	<u>Aarush</u>
102	Krunal Nandesh Patil	Comp	TE	<u>Krunal</u>
103	Patil Kunal Shrawan	Comp	TE	<u>Patil</u>
104	Patil Sanubh Sanjay	Comp	TE	<u>Sanubh</u>
105	Parwar Madhav P.	Comp	TE	<u>Parwar</u>
106	Parwar Rahul D	CO	TE	<u>Parwar</u>
107	Parwar Tanu V.	Comp	TE	<u>Parwar</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	Keelperm Shinde	comp	BE	<u>Keelperm</u>
114	Nitesh Sharma	Comp	TE	<u>Nitesh</u>





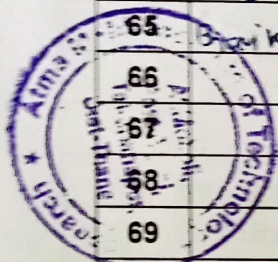
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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

56	Geetal Temkar	comp	BE	<u>Somkar</u>
57	Mayur Jadhav	mech	TE	<u>Adhikari</u>
58	Ganesh S. Raut	mech	TE	<u>Adhikari</u>
59	Amol S. Dupare	mech	TE	<u>Adhikari</u>
60	Karjane N. Raut	mech	TE	<u>Adhikari</u>
61	Soraj R. Singh	mech	TE	<u>Adhikari</u>
62	Satish N. Goswami	mech	TE	<u>Adhikari</u>
63	Manish R. Patil	mech	TE	<u>Adhikari</u>
64	Rushkesh V. Dhasode	mech	TE	<u>Adhikari</u>
65	Pratik S. Patil	mech	TE	<u>Adhikari</u>
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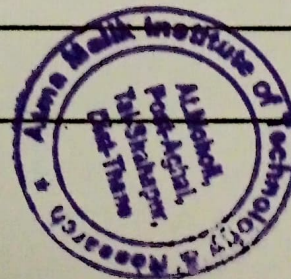
ATMA MALIK INSTITUTE OF TECHNOLOGY AND RESEARCH (AMRIT)

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

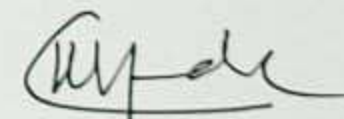
All the principals of the affiliated colleges in Engineering are hereby informed that the Detailed Schedule of the Term of Undergraduate (BE), Postgraduate (ME) in Engineering programs for Academic year 2023 – 24 will be as under:

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

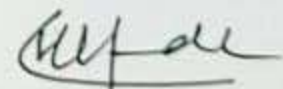
All the principals of the affiliated colleges in Engineering are hereby informed that the Detailed Schedule of the Term of Undergraduate First Year (FE), Postgraduate (ME) in Engineering programs for Academic year 2023 – 24 will be as under:

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:

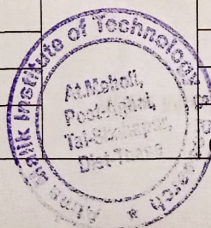

Associate Dean
Faculty of Science & Technology
University of Mumbai



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Atma Malik Institute of Technology & Research (AMRIT)

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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Vishwatmak Jangli Maharaj Ashram Trust's

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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Atma Malik Institute of Technology & Research (AMRIT)

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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Atma Malik Institute of Technology & Research (AMRIT)

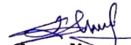
Department of Mechanical Engineering

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



!! Sabka Malik Atma!!

Vishwatmak Jangli Maharaj Ashram Trust's

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.



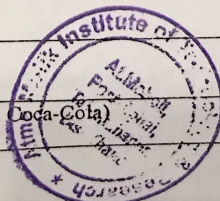
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Vishwatmak Jangli Maharaj Ashram Trust's

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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Atma Malik Institute of Technology & Research (AMRIT)

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

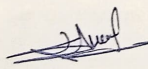
Note:- Remaining events are planned & will be completed by Dec 2024

SUMMARY

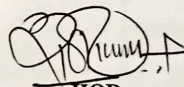
No of Events Planned	No of Events Conducted	Percentage of Completion
40	04	90:00%


Prepared by

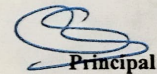
Prof. R. S. Gaikwad


Co-ordinator

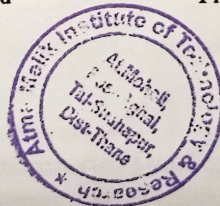
Prof. R. S. Gaikwad


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)

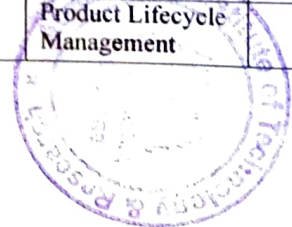
1. Product Lifecycle Management
2. Reliability Engineering
3. Cyber Security and Laws
4. Research Methodology
5. Disaster Management and Mitigation Measures
6. IPR and Patenting Energy Audit and Management
7. Digital Business Management
8. Development Engineering

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>Vinitp</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>V. Prajapati</i>
42	Rayat Mayuresh Eknath	Vehicle Systems	Machinery Diagnostics	Product Lifecycle Management	<i>MR</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>Uttamshelke</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

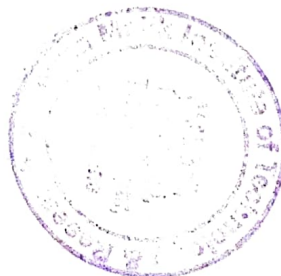
All the Students of Mechanical department are hereby informed that they have to give their Elective choice in the prescribed format with the help of following Elective Subject list.

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



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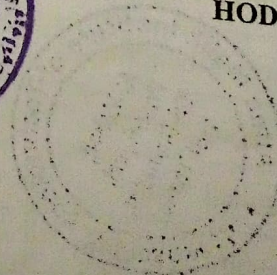
Department of Mechanical Engineering

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





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Department of

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

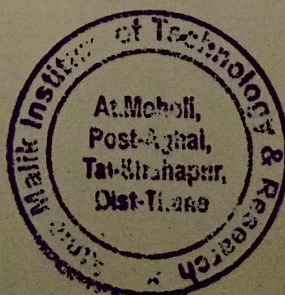
Date: Class: TE

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	P T D			
02	Dhasade Rushikesh Vasudev	P T D			
03	Dupare Amol Suresh	P T D			
04	Patil ^{Mayur} Kallias Bharat	P T D			
05	Patil Manish Rajendra	P T D			
06	Raut Ganesh Suresh	P T D			
07	Raut Kunjan Nitendra	P T D			
08	Sarmalkar Pawan Pundlik	P T D			
09	Singh Suraj Ramsagar	P T D			

Class Coordinator



MOD



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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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Department of Mechanical Engineering

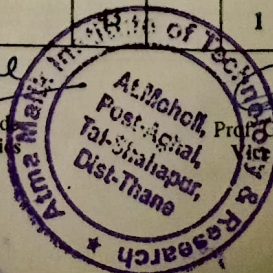
ACAD-DI-07	Workload Distribution for EVEN SEM AY 2023-24	Academic Year: 2023-24
Rev : 00		Semester: EVEN
Date: 11-7-2022		

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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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 I (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		

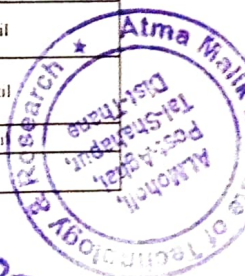
Prof. S. M. Patil
Time Table Incharge

Dr. G. D. Sonawane
HOD

Dr. S. M. Munde
Academic Dean

Prof. G. E. Chavan
Vice Principal

Dr. D.D. Shinde
Principal





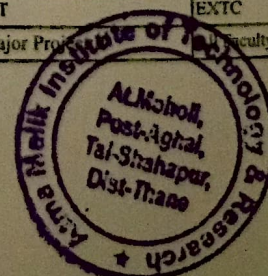
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Department of Mechanical Engineering

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

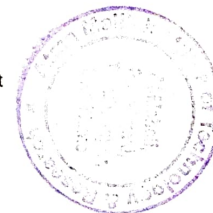
Academic Year : 2023-24

Prerequisites : Machine Design, CAD Modelling

Objectives : 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

Outcomes : **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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Department of Mechanical Engineering

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.

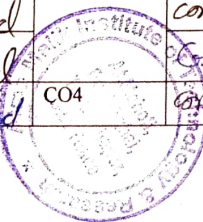
Lesson Plan:

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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Department of Mechanical Engineering

		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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Department of Mechanical Engineering

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 (16 Sept)
	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



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Department of Mechanical Engineering

	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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Department of Mechanical Engineering

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/ Belt conveyor	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	Detailed drawing of centrifugal pump drawing sheet		2	7/8/23	14/8/23	4/9/23	completed
4	Additional course- Excel/JAVA etc	Excel, JAVA	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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Department of Mechanical Engineering

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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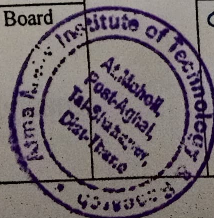
TEXT BOOKS:

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.





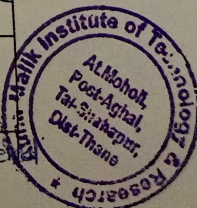
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	4.	Air Refrigeration System: Bell Coleman cycle, Necessity of air cooling, Factors considered for the selection of air refrigeration system	15/01/2024	16/01/2024	Chalk and Board	CO1	Completed Extra lecture ↓
	5.	Types of air refrigeration system with 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





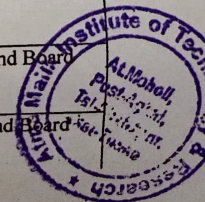
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3 Psychrometry: of Air Conditioning Processes		Seasonal energy efficiency ratio, Classification of heat pump					
	14.	Vapour compression heat pump systems Heat pump application in an industry	06/02/2024	07/02/2024	Chalk and Board		Completed.
	15.	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.





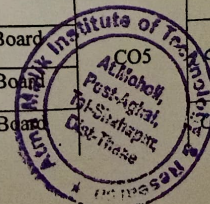
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Department of Mechanical Engineering

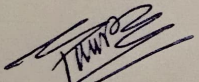
		heat sources , Various load Estimation	04/03/24	04/03/24		UT-I
	23.	Design of air conditioning system	05/03/24	12/03/24	Chalk and Board	
	24.	Building survey and economic aspect used in design	06/03/24	18/03/24	Chalk and Board	
4 Air Distribution System	25.	Duct: Classification of ducts, duct material, pressure in ducts ,Flow through duct	11/03/24	19/03/24	Chalk and Board	CO4
	26.	pressure losses in duct ,Air flow through simple duct system	12/03/24	20/03/24	Chalk and Board	
	27.	Equivalent diameter, Methods of duct system design	13/03/24	26/03/24	Chalk and Board	
	28.	Air Handling Unit : Fan coil unit	18/03/24	29/03/24	Chalk and Board	
	29.	Types of fans used air conditioning Introduction applications	19/03/24	28/03/24	Chalk and Board	
	30.	Fan laws ,Filters, supply and return grills, Sensors	20/03/24	29/03/24	Chalk and Board	
5 HVAC & R Components	31.	Working of reciprocating, screw and scroll compressors	26/03/24	01/04/24	Chalk and Board	
	32.	working of air cooled, and water cooled and evaporative condensers	27/03/24	02/04/24	Chalk and Board	
	33.	Working of DX, Flooded	01/04/24	03/04/24	Chalk and Board	
	34.	Forced feed evaporators	02/04/24	04/04/24	Chalk and Board	
	35.	Expansion devices Capillary tube	03/04/24	08/04/24	Chalk and Board	

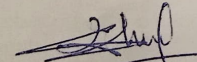




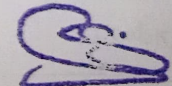
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Department of Mechanical Engineering

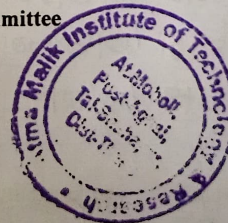
6 Application of HVAC&R	36.	TXV, EXV, Type of insulation materials	08/04/24	10/04/24	Chalk and Board	CO6	completed
	37.	Ice plant, Food storage plants, dairy and food processing plants, freeze drying	10/04/24	11/04/24	Chalk and Board		completed
	38.	A/c in textile, Printing pharmaceutical industry and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



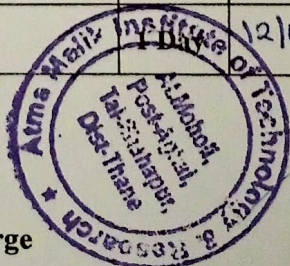


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Department of Mechanical Engineering

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.

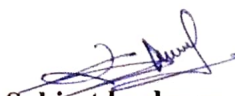
Course Outcomes: On completion of this course, the successful students should be able to:

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

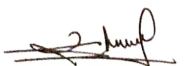
Subject Name – Design of Mechanical System (MEC701)

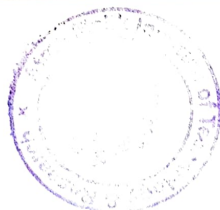
Semester – 7th

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)

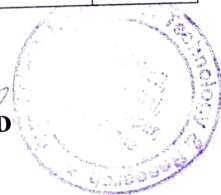
Mapping between Course outcomes (COs) and the Program Outcomes (POs) and Program Specific outcomes (PSOs) is as in tables below;

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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Department of Mechanical Engineering

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

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.

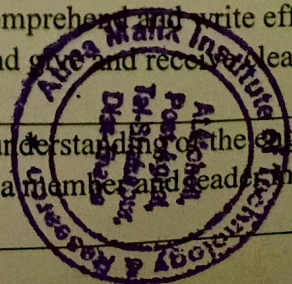
Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

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.

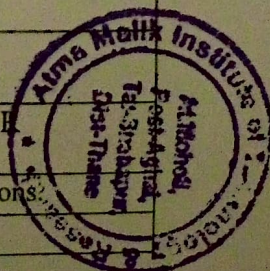
SUBJECT: Heating, Ventilation, Air Conditioning and Refrigeration (MEL603)

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



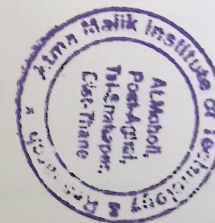
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Mapping between Course outcomes (COs) and the Program Outcomes (POs) and Program Specific outcomes (PSOs) is as in tables below;

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

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

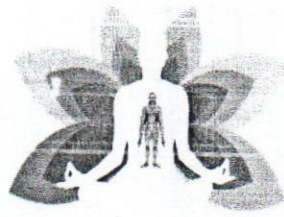
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
CO1	2							1					1	
CO2	2				1	2	2						1	2
CO3	2	1	1	1									2	1
CO4	2	1				1	1							2
CO5	2									2			1	1
CO6	2	1			1	1							2	1

Subject In charge


Dept. Academic Coordinator



HOD



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



Academic Process Manual

AS PER INTERNATIONAL STANDARD ISO 21001:2018

ISSUE NO: 01 DTD. 11-07-2022



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ALL THE PROCEDURES IN THIS MANUAL ARE				
Computer Engineering				
Electronics & Telecommunications Engineering				
Mechanical Engineering				
Civil Engineering				
First Year Engineering				
Prepared By: Departmental ISO Coordinator		Reviewed By: Vice-Principal & Dean Academics	Approved By: Principal	Issued By: ISO Coordinator



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All	00	11-07-2022	Original Issue, Issue No. 01 dtd. 11-07-2022.	Principal
ACA / PR / C	01	21-11-2022	New formats Equipment list for calibration ACA/DI/75 and TH/PR Attendance sheet ACA/DI/76 added.	Principal



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ACA/PR/A	Academics process Manual	00	All HOD, Principal	Department ISO Coordinator	File-ACA-I	ALL	Permanent	
EOMS-DI-12	Non-conformity Register	00	ISO Coordinator	HOD	Register	All	5 Years	Shred
EOMS-DI-15	EOMS Objective Status	00	ISO Coordinator	HOD	File – ACA-I	All	5 Years	Shred
EOMS-DI-16	Students Complaints / Appeal Register	00	Principal	HOD, Cell I/Cs	Register	All	5 Years	Shred
ACAD-DI-01	Process Risks & Opportunities - Academics	00	ISO Coordinator	HOD	File – ACA-I	All	5 Years	Shred
ACAD-DI-02	List of Committees / Academic Portfolio distribution	00	All HODs, Principal, Vice-Principal	Vice- Principal/ Dean Academics	File – ACA-II	All	3 Years	Shred
ACAD-DI-03	Institute Academic Calendar	00	All HODs, Registrar, College web site	Vice- Principal/ Dean Academics	File – ACA-II	All	3 Years	Shred
ACAD-DI-04	Department Event Calendar	00	All faculties	HOD, Event coordinator	File - A-02	All	3 Years	Shred
ACAD-DI-05	Elective Choice	00	All faculties	Students, Class Coordinator, Dept. Academic Coordinator	File – A-02	All	3 Years	Shred
ACAD-DI-06	Subject Choice	00	HOD	HOD	File – A-02	All	3 Years	Shred
ACAD-DI-07	Work Load Distribution	00	All faculties	HOD	File – A-02	All	3 Years	Shred
ACAD-DI-08	Master Time Table	00	HOD	Timetable In charge	File – A-02	All	3 Years	Shred
ACAD-DI-09	Class Timetable	00	Notice Board (N/B), All Faculties, College web site & HOD	Timetable In charge	File – A-02	All	3 Years	Shred
ACAD-DI-10 A	Class Room Timetable	00	HOD	Timetable In charge	File – A-02	All	3 Years	Shred
ACAD-DI-10 B	Lab Time table	00	Lab I/C	Timetable In charge	File – A-02	All	3 Years	Shred
ACAD-DI-11	Individual Time table	00	HOD	Timetable In charge	File – A-02	All	5 Years	Shred
ACAD-DI-12	Content Beyond Syllabus	00	Concern Faculty & HOD	Concern Faculty	File – A-02	All	3 Years	Shred
ACAD-DI-13	Course Plan	00	Concern Faculty & HOD	Concern Faculty	File – A-02	All	3 Years	Shred
ACAD-DI-14 A	Lab Plan	00	Concern Faculty & HOD	Concern Faculty	File – A-02	All	3 Years	Shred



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ACAD-DI-14 B	Tutorial Plan	00	Concern Faculty & HOD	Concern Faculty	File – A-02	All	3 Years	Shred
ACAD-DI-15 A	Academic Monitoring Report	00	IQAC Director, HOD	IQAC Director HOD, Dept. Academic Coordinator	File – A-03	All	3 Years	Shred
ACAD-DI-15 B	Consolidated Academic Monitoring Report	00	Principal, Vice-Principal, IQAC Director, HOD	IQAC Director, HOD, Dept. Academic Coordinator	File – A-03	All	3 Years	Shred
ACAD-DI-16	Roll call list	00	Notice Board, Concern Faculty & HOD	Class Coordinator	File – S-01	All	3 Years	Shred
ACAD-DI-17	Internal Assessment Question paper	00	Concern Faculty & HOD	Concern Faculty, Dept. Exam Coordinator	File – A-09	All	3 Years	Shred
ACAD-DI-18	Internal Examination Time Table	00	N/B, HOD & All Faculties	Exam Section	File – A-09	All	3 Years	Shred
ACAD-DI-19	Exam Block-wise seating arrangement	00	N/B, HOD & All Faculties	Exam Section	File – A-09	All	3 Years	Shred
ACAD-DI-20	Supervision Duty Chart	00	N/B, HOD & All Faculties	Exam Section	File – A-09	All	3 Years	Shred
ACAD-DI-21	Exam Attendance and Mark Sheet	00	HOD & All Faculties	Exam Section	File – A-09	All	3 Years	Shred
ACAD-DI-22	Continuous Assessment sheet	00	All faculties	HOD	File – A-03	All	3 Years	Shred
ACAD-DI-23	Internal Examination Result Analysis	00	HOD	Dept. Exam Coordinator	File – A-09	All	3 Years	Shred
ACAD-DI-24 A	List of Project Guide with Specialization	00	All faculties	HOD	File – A-08	All	3 Years	Shred
ACAD-DI-24 B	Project Guide allocation	00	All faculties	HOD	File – A-09	All	3 Years	Shred
ACAD-DI-25	Project Review Schedule	00	HOD, All faculty, students	Project Coordinator	File – A-09	All	3 Years	Shred
ACAD-DI-26 A	Evaluation-Project Review	00	HOD, All faculties, students	Project Coordinator	File – A-09	All	3 Years	Shred
ACAD-DI-26 B	Presentation and Report submission Sheet Format	00	All faculties	HOD	File – A-09	All	3 Years	Shred
ACAD-DI-27 A	Monthly Attendance Monitoring Report	00	HOD, Dept. Academic Coordinator	HOD, Dept. Academic Coordinator	File-A-03	All	3 Years	Shred

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ACAD-DI-27 B	Defaulter list	00	HOD, Class Coordinator	HOD, Class Coordinator	File-A-03	All	3 Years	Shred
ACAD-DI-28 A	Departmental Annual Progress Report	00	Principal, Vice-Principal, IQAC Director	HOD	File – A-03	All	3Years	Shred
ACAD-DI-28 B	College Annual Progress Report	00	Principal, Vice-Principal	IQAC Director	File – ACA-II	All	3Years	Shred
ACAD-DI-29	Mentor Book	00	HOD, Mentor Coordinator, Mentors	Mentors, Mentor Coordinator	File – A-04	All	3 Years	Shred
ACAD-DI-30	Dead Stock Register	00	--	Lab Incharge, Lab. Asst.	Register	All	3 Years	Shred
ACAD-DI-31	Parent Teacher Meet Report	00	HOD, Class Coordinator	Dept. Academic Coordinator	File –D-06	All	3 Years	Shred
ACAD-DI-32	Students and Parents undertaking	00	Class Coordinator	HOD, Dept. Academic Coordinator	File –D-06	All	3 Years	Shred
ACAD-DI-33	Preventive maintenance record	00	Lab Incharge	HOD, Lab Incharge	File –D-04	All	3 Years	Shred
ACAD-DI-34	Parent Communication Letter	00	Class Coordinator	HOD	File –D-06	All	3 Years	Shred
ACAD-DI-35	Result Analysis	00	Principal, Vice-Principal, HOD	Exam Section, Dept. Exam Coordinator	File – A-09	All	3 Years	Shred
ACAD-DI-36	Permission for Alternate Examiner	00	Exam Section, Principal, HOD	Exam Section	File – A-09	All	3 Years	Shred
ACAD-DI-37	UoM Exam Pattern	00	Principal, Vice-Principal, HOD	Exam Section	File – A-09	All	3 Years	Shred
ACAD-DI-38	CO-PO-PSO Mapping sheet	00	HOD	Concern faculty	File –A-03	All	3 Years	Shred
ACAD-DI-39	CO-PO-PSO Mapping Sheet	00	HOD	Concern Coordinator	File –A-03	All	3 Years	Shred
ACAD-DI-40	CO-PO-PSO Course Attainment Sheet	00	HOD	All Faculty, Concern Coordinator	File –A-03	All	3 Years	Shred



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ACAD-DI-41	CO-PO-PSO Overall Attainment	00	HOD	All Faculties, Concern Coordinator	File -A-03	All	3 Years	Shred
ACAD-DI-42A	Research Paper Publication Report	00	HOD, Principal, Vice-Principal	Concern Coordinator	File - F-03	All	3 Years	Shred
ACAD-DI-42B	Research Paper Presentation Report	00	HOD, Principal, Vice-Principal	Concern Coordinator	File - F-03	All	3 Years	Shred
ACAD-DI-43	Funded Research Projects Report	00	HOD, Principal, Vice-Principal	Concern Coordinator	File -F-04	All	3 Years	Shred
ACAD-DI-44	Research and Development Consultancy Report	00	HOD, Principal, Vice-Principal	Concern Coordinator	File -F-04	All	3 Years	Shred
ACAD-DI-45	Book and Book Chapter Publications	00	HOD, Principal, Vice-Principal	Concern Coordinator	File - F-03	All	3 Years	Shred
ACAD-DI-46	IPR & Copyright Report	00	HOD, Principal, Vice-Principal	Concern Coordinator	File - F-03	All	3 Years	Shred
ACAD-DI-47	Summary of Conference-Workshop-STTP-FDP-Training Attended Report	00	HOD, Principal, Vice-Principal	Concern Coordinator	File -F-02	All	3 Years	Shred
ACAD-DI-48	Summary of Conference-Workshop-STTP-FDP-Training Program Organized	00	HOD, Principal, Vice-Principal	Concern Coordinator	File -F-02	All	3 Years	Shred
ACAD-DI-49	Summary of Awards Received	00	HOD, Principal, Vice-Principal	Concern Coordinator	File - F-03	All	3 Years	Shred
ACAD-DI-50	Summary of Guest Lecture	00	HOD, Principal, Vice-Principal	Concern Coordinator	File -A-07	All	3 Years	Shred
ACAD-DI-51	Summary of Research Lab or Industry Collaboration	00	HOD, Principal, Vice-Principal	Concern Coordinator	File - F-03	All	3 Years	Shred
ACAD-DI-52	Equipment Or Instrument Verification Record	00	HOD, lab In-charge	Concern Coordinator	File - D-02	All	3 Years	Shred
ACAD-DI-53	Breakdown Maintenance Record	00	HOD, lab In-charge	Concern Coordinator	File - D-04	All	3 Years	Shred
ACAD-DI-54	Department Minutes of Meeting	00	HOD, Principal, Vice-Principal	Dept. Academic Coordinator	File - D-07	All	3 Years	Shred
ACAD-DI-55	Course File	00	HOD	All staff	File - A-03	All	3 Years	Shred



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ACAD-DI-56	Course File Verification	00	HOD, Principal, Vice-Principal	Concern Coordinator	File – A-03	All	3 Years	Shred
ACAD-DI-57	Detention list	00	HOD	Class Coordinator, Dept. Academic Coordinator	File – A-03	All	3 Years	Shred
ACAD-DI-58	Charge Handover –Takeover Report	00	HOD, Principal, Vice-Principal	All staff	File – F-01	All	3 Years	Shred
ACAD-DI-59	Activity/ Program Report	00	HOD, Principal, Vice-Principal	All staff	File – D-10	All	3 Years	Shred
ACAD-DI-60	Course Exit Survey	00	HOD	All staff, Dept. Academic Coordinator	File – D-03	All	3 Years	Shred
ACAD-DI-61 A	Student Feedback Form	00	HOD, Principal, Vice-Principal	Concern Coordinator	File – D-05	All	3 Years	Shred
ACAD-DI-61 B	Analysis of Student Feedback	00	HOD, Principal, Vice-Principal	Concern Coordinator	File – D-05	All	3 Years	Shred
ACAD-DI-62	Industrial Visit Report	00	HOD	Concern Coordinator	File – S-03	All	3 Years	Shred
ACAD-DI-63	Summary of Students Co-Curricular, Extra Curricular Activity Report	00	HOD, Principal, Vice-Principal	Concern Coordinator	File – S-09	All	3 Years	Shred
ACAD-DI-64 A	Faculty Appreciation letter	00	Principal, Vice-Principal	HOD, Dept. Academic Coordinator	File – F-01	All	3 Years	Shred
ACAD-DI-64 B	Faculty Explanation letter	00	Principal, Vice-Principal, HOD	Concern faculty	File – F-01	All	3 Years	Shred
ACAD-DI-65	Skill Matrix	00	Principal, Vice-Principal, HOD	Concern Coordinator	File – F-01	All	3 Years	Shred
ACAD-DI-66	Training Calendar	00	Principal, Vice-Principal, HOD	Concern Coordinator	File – F-02	All	3 Years	Shred
ACAD-DI-67	Training Record	00	Principal, Vice-Principal, HOD	Concern Coordinator	File – F-02	All	1 Year	Shred
ACAD-DI-68	Notice Circular	00	Principal, Vice-Principal, HOD	Concern Coordinator	File – D-18	All	3 Years	Shred

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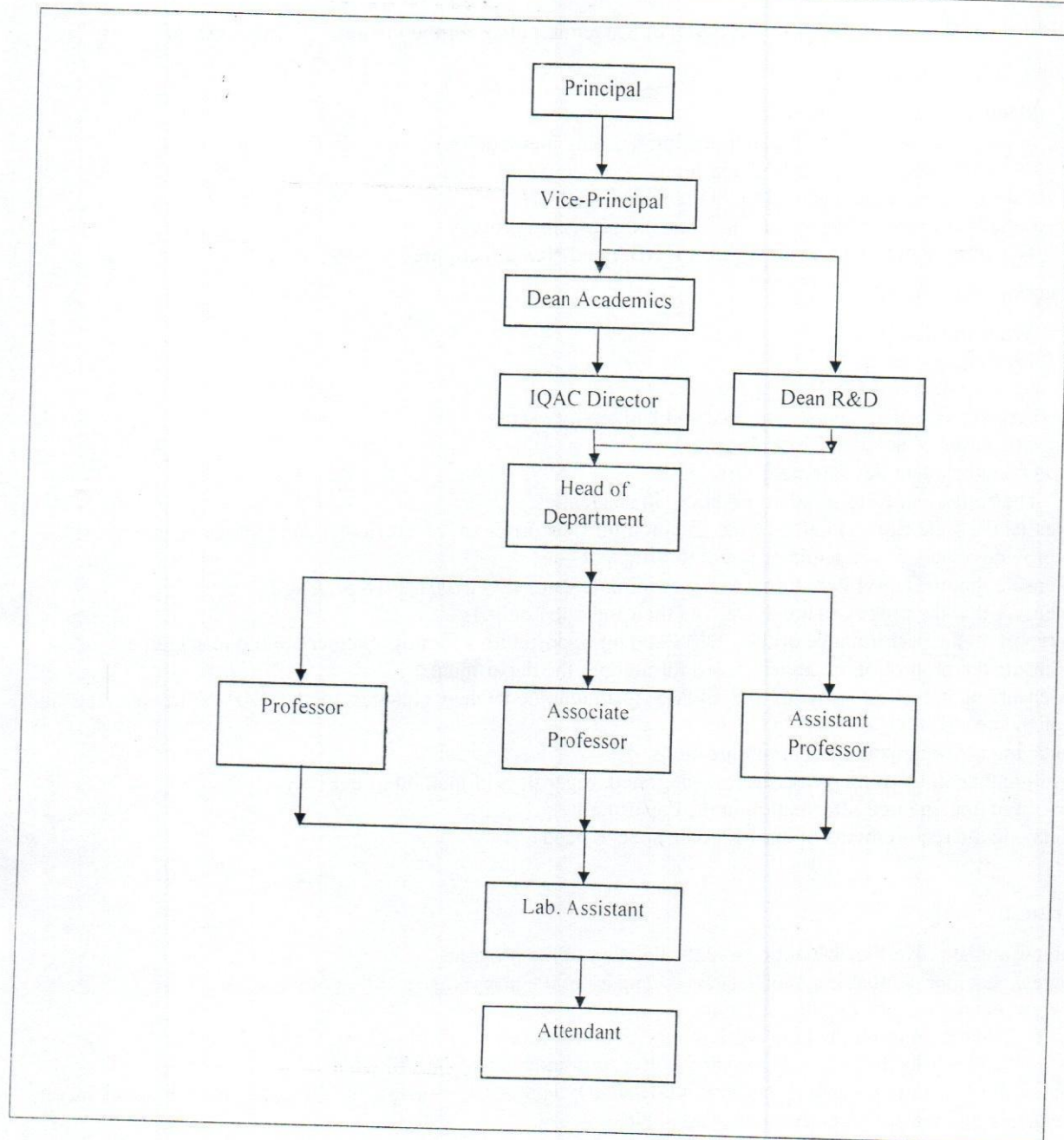
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D. I. No.	D.I. / File Name	Rev. No.	Distribution	Access (For preparation & updation)	Storage	Use	Retention Period	Disposal Method
ACAD-DI-69 A	Teacher Feedback form on Syllabus/ Curriculum	00	HOD	Dept. Academic Coordinator	File-D-05	All	3 Years	Shred
ACAD-DI-69 B	Parents Feedback form	00	HOD	Mentor, Mentor Coordinator	File-D-05	All	3 Years	Shred
ACAD-DI-69 C	Alumni Feedback form	00	HOD, T&P Cell	T&P coordinator, Dept. T&P coordinator	File-D-05	All	3 Years	Shred
ACAD-DI-69 D	Employers Feedback form	00	HOD, T&P Cell	T&P coordinator, Dept. T&P coordinator	File-D-05	All	3 Years	Shred
ACAD-DI-70	Learner data consent form	00	HOD, Registrar	Faculty, OS	File-S-01	All	3 Years	Shred
ACAD-DI-71	Oral/Practical Exam Timetable	00	Notice board, Exam section, HOD & All Faculties	Dept. Exam Coordinator	File – A-09	All	5 Years	Shred
ACAD-DI-72	OR-PR- Internal & External Examiner	00	Exam section, HOD & All Faculties	Dept. Exam Coordinator	File – A-09	All	5 Years	Shred
ACAD-DI-73 A	Term work Attendance Sheet	00	Exam section, HOD & All Faculties	Exam Section	File – A-09	All	5 Years	Shred
ACAD-DI-73 B	Term Work Marksheet	00	Exam section, HOD & All Faculties	Exam Section	File – A-09	All	5 Years	Shred
ACAD-DI-73 C	OR/PR Attendance Sheet	00	Exam section, HOD & All Faculties	Exam Section	File – A-09	All	5 Years	Shred
ACAD-DI-73 D	OR/PR Average Marksheet	00	Exam section, HOD & All Faculties	Exam Section	File – A-09	All	5 Years	Shred
ACAD-DI-74	Answer-sheet Dispatch register for CAP	00	Offline CAP IC	Exam Section	Register	All	Permanent	
ACAD-DI-75	Equipment list for calibration	00	HOD, lab In-charge	Concern Coordinator	File – D-02	All	Permanent	
ACAD-DI-76	TH/PR Attendance sheet	00	HOD & All Faculties	Dept. Academic Coordinator, Subject I/C	File – A-03	All	3 Years	Shred



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ACA / PR/D	Organization Chart	
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ACA /PR/ E	Responsibilities and Authorities	
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1. Responsibilities and authorities of Dean Academics:

To Assist Principal/Vice-Principal in formation of academic policy for the institute in the context of:

1. Planning & Implementation

- Planning of academic year
- Implementation of OBE based Teaching learning methodology
- Implementation of MOOCs, E-learning.
- Student assessment, evaluation and remedial methods
- Initiatives towards improvement in teaching learning process
- To contribute in institute level EOMS, NBA and NAAC activities

2. Monitoring and control

- Academic discipline
 - Teaching programs.
 - Achievement of EOMS objectives
 - Performance of students – Internal and University exams
 - Utilization of academic resources
 - Overall student development activities
 - The conformance to standard practices in academics
- To assist the authority to Plan, execute and monitor the curricular, co-curricular and extracurricular activities.
 - To provide review of academic progress to Principal
 - To ensure that the EOMS conforms to the requirements of ISO 21001:2018 Standard.
 - To ensure that the processes are delivering their intended outputs.
 - To report on the performance of the EOMS and on opportunities for improvement to top management.
 - To ensure the promotion of student focus throughout the department.
 - To ensure that the integrity of the EOMS is maintained when changes to the EOMS are planned and implemented.
 - Managing the organization's communications.
 - Ensuring that all learning processes are integrated, regardless of method of delivery.
 - Control of documented information in the department.
 - Managing the requirements of learners with special needs.

Authorities:

- Review and approve the academic / event calendars of the program
- Review and approve the time tables event calendars of the program
- Review and approve of faculty requirements for the program
- Review and recommend the term work marks given to students
- Recommend the disciplinary actions for faculty, staff and students to Principal.
- Review the academic process by surprise attendance of lectures, verification of files, student interaction, faculty interaction and visits to faculty cabins and cubical.

2. Responsibilities and authorities of IQAC Director

Overall responsibility:

- To conduct the perspective plan meeting at the beginning of year.
- Prime agenda of the meeting would be review based planning of academic policies for the sustainable growth of the College.
- To develop a monitoring system for quality assurance of the policies.
- To prepare a detailed Annual Quality Assurance Report (AQAR) at the end of the academic year and submit the same to Principal / Governing Body / NAAC.



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A/CA /PR/ E	Responsibilities and Authorities	
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Academic Activities:

- 1) To organize an interactive session with faculty members following the guidelines given by Governing Body, College development committee to strengthen the Teaching-Learning process.
- 2) Preparation and release of guidelines regarding all Academic activities before the commencement of Semester
- 3) Uploading of Academic plans prepared by respective faculty members on the college portal for easy access to the students
- 4) Preparation of list of faculty coordinators at Department level for various academic activities and compilation of the same.
- 5) To conduct the meeting of faculty coordinators for various academic tasks to discuss the plan of action for their respective responsibilities
- 6) Preparation of mentoring guidelines to be followed
- 7) To conduct interactive session with all faculty mentors regarding mentoring of students
- 8) To help the Departments in monitoring the mentoring process
- 9) To coordinate the process of feedback from students about Teaching-Learning process in respective classes and communicate the assessment of the same to respective faculty members and Department

To help the Departments in monitoring following activities:

- 1) Tutorials / Unit Test
- 2) Assignments
- 3) Seminars / Projects
- 4) Add on content - Theory & Lab
- 5) Remedial classes
- 6) Collection of teaching course outcome feedback from students at the end of the semester
- 7) Collection of Programme exit Survey from final year students at the end of the academic year

3. Responsibilities and authorities of Dean R & D

- 1) Planning of research activities, resource mobilization and management of R&D projects.
- 2) Identify opportunities for externally funded R&D projects, apply for funding, submit project proposals, follow up with the funding agencies, for securing sanction of projects.
- 3) Identify R&D projects to be taken up with college funding.
- 4) Prepare R&D budget including, among others, seed money for faculty for research, incentives, project cost; obtain funds for budget proposals.
- 5) Develop and establish a policy to promote research culture in the college
- 6) Organize national and international conferences with the participation of eminent scientists/technologists in specialized/emerging areas.
- 7) Develop plans, and co-ordinate efforts of departments of college, to obtain recognition for their research activities by national, international agencies such as UGC, DST, ICSSR, ICHR, ICPR etc.

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To help the Departments / bodies / authorities / clubs in collection and analysis of feedback from the following stake-holders:

- Parents
 - Industry Experts / Employers
 - Executives of professional bodies
 - Alumni
- 1) To help in the preparation of various rubrics regarding feedback from students and stakeholders, examination result, Course assessment, placement etc.
 - 2) To suggest various value-added programs and to coordinate the execution of the same
 - 3) To suggest various ways to strengthen the departments / Incubation centers to help in enhancing the technical skills of the students
 - 4) To organize the review / audit of all the academic activities by a team of internal experts and external experts and present the observation in the meeting of GB / CDC for further guidelines
 - 5) To coordinate the collection and compilation of self-appraisal forms from faculty members at the end of academic year
 - 6) To coordinate the collection, documentation and actions to be taken on the information about funding agencies, their norms and passing by the R&D centre and respective Departments

3. Responsibilities and authorities of Head of Department (HOD):

Head of the Department is responsible for academic, day to day administration and overall development of the department. HOD shall assist Principal for implementing and monitoring policies and guidelines issued by higher authorities. Various academic and administrative responsibilities of HOD include (but not limited to):

- 1) The Head of Department is overall In-charge of the department. He / She is required to ensure smooth functioning of the department in addition to his/her regular teaching load.
- 2) To maintain the conducive environment for the students in the department.
- 3) To conduct departmental meeting regularly for smooth functioning of departmental work.
- 4) To monitor the effective execution of academic activities.
- 5) To distribute the Teaching load before the summer / winter vacation.
- 6) To assign Departmental Portfolios to staff members and monitor the effective execution of the same.
- 7) To ensure the effective implementation of orders / instructions received from higher authorities.
- 8) To prepare departmental academic calendar and class timetable before commencement of the semester.
- 9) To ensure lab manuals are maintained up to date and all the experimental set up in the laboratories are in working condition before start of the semester.
- 10) To make regular visits to the laboratory to ensure conduction of the sessions as per curriculum.
- 11) To arrange industrial visits / expert lecturers for students in order to increase technical proficiency.
- 12) To conduct Student feedback and ensure compliance of the short falls.
- 13) To arrange a parents meet once in a semester to discuss students' performance.
- 14) To regularly monitor student's attendance, display the defaulter list as specified in academic calendar and communicate the attendance status to the parent through class in-charge / Mentor.
- 15) To organize conferences, workshop, STTP, Project exhibitions and other Technical Events to give technical exposure to the student and faculty.
- 16) To motivate faculty members to attend conferences, workshop, FDP, STTP and other Technical Events for their knowledge up gradation.

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- 17) To ensure the proper maintenance of students' records related to curricular, co-curricular and extra-curricular activities through in-charge / Mentor.
- 18) To prepare and implement schedule for Practical/ Oral University examination as per the rules and regulation laid by the UoM.
- 19) To ensure result analysis to be submitted to Principal and IQAC cell within three days from the date of receipt of the ledger.
- 20) To grant a leave to the faculty after ensuring work load arrangement.
- 21) To ensure that the EOMS conforms to the requirements of ISO 21001:2018 Standard.
- 22) To ensure that the processes are delivering their intended outputs.
- 23) To report on the performance of the EOMS and on opportunities for improvement to top management.
- 24) To ensure the promotion of student focus throughout the department.
- 25) To ensure that the integrity of the EOMS is maintained when changes to the EOMS are planned and implemented.
- 26) Managing the organization's communications.
- 27) Ensuring that all learning processes are integrated, regardless of method of delivery.
- 28) Control of documented information in the department.
- 29) Managing the requirements of learners with special needs.

Authorities:

- 1) Delegate responsibilities and load allocation to the faculty and staff for the proper conduction of academic process.
- 2) Review the performance of faculty and staff. Take and recommend suitable actions to the Principal.
- 3) Approve the academic requests of faculty and staff such as leaves, participation and organization of events, qualification improvement, requirement of resources etc.
- 4) Approve the leaves of faculty and staff in accordance to the guidelines of the Principal.
- 5) Recommend the faculty and staff for various activities at institute level.
- 6) Approve the academic requests of students such as leaves, participation and organization of events, requirement of resources etc.
- 7) Review and approve the performance of students such as consideration of term work, marks given, detention of students etc.

4. Responsibilities and authorities of Professor / Associate Professor:

- 1) To execute the academic activities as per UoM curriculum for allotted classes.
- 2) To help the Head of Department in administration and overall development of department.
- 3) To motivate students for internship/training programs/industrial projects.
- 4) To encourage faculty members to inculcate content beyond syllabus while executing academic activities.
- 5) To motivate the teaching and non-teaching faculty of the department for engagement in self and department activities.
- 6) To update technical knowledge by completing industrial training/FDP/STTP at reputed organizations.
- 7) To guide the junior faculty in the department as and when required.
- 8) To take involvement in research activities to improve the research environment of department and generate the opportunities for the funding from funding agencies.

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- 9) To look for consultancy in the respective department
- 10) To ensure that the EOMS conforms to the requirements of ISO 21001:2018 Standard.
- 11) To ensure that the processes are delivering their intended outputs.
- 12) To ensure the promotion of student focus throughout the department.
- 13) Managing the organization's communications.
- 14) Ensuring that all learning processes are integrated, regardless of method of delivery.
- 15) Managing the requirements of learners with special needs.

Authorities:

- 1) To mentor faculty and student
- 2) To improve academic and research activity
- 3) To improve publication and IPR
- 4) To monitor teaching learning process
- 5) To suggest changes in EOMS

5. Responsibilities and authorities of Assistant Professor

Faculty is responsible for academics functioning of the department. Other than academics, department level and institute level responsibilities will be assigned to assist Head of Department and Principal. Responsibilities of Assistant Professor include (but not limited to);

- 1) To execute the academic activities as per UoM curriculum for allotted classes
- 2) To execute the duties of laboratory in-charge of the allotted laboratory.
- 3) To maintain student's academic record and continuous assessment for allotted classes (Theory / Practical).
- 4) To develop, update and circulate resources and study material to the students.
- 5) Assisting in departmental administration and other duties assigned time to time by the higher authorities.
- 6) To update technical knowledge by completing industrial training/FDP/STTP at reputed organizations.
- 7) To motivate students for co-curricular and extra-curricular activities.
- 8) To motivate students for internship/training programs/industrial projects.
- 9) To ensure that the EOMS conforms to the requirements of ISO 21001:2018 Standard.
- 10) To ensure that the processes are delivering their intended outputs.
- 11) To ensure the promotion of student focus throughout the department.
- 12) Managing the organization's communications.
- 13) Ensuring that all learning processes are integrated, regardless of method of delivery.
- 14) Managing the requirements of learners with special needs.

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Authorities:

1. To Find out laboratory requirement and propose to H.O.D.
2. To mentor staff and students.
3. To suggest changes in EOMS.

6. Responsibilities and authorities of System & technical Support / Lab. Assistant

Non-teaching technical staff shall ensure smooth functioning of the various systems (Computer / Electrical etc.) and labs. available in the institute/ department.

a) System and Technical Support

1. To administer and maintain servers, firewalls, routers, network accessories, UPS etc.
2. To initiate maintenance / purchasing of equipment(s).
3. To provide support for various software servers.
4. To ensure continuous internet services.
5. To assist examination cell during On-line exam, Seminar, Workshop, technical training program etc.

b) Laboratory Assistant

1. To prepare & maintain the laboratories for smooth conduction of laboratory session.
2. To help teaching staff and students during laboratory sessions.
3. To maintain laboratory log book, Dead stock register, Instrument / Equipment movement register and maintenance register.
4. To conduct installation of new equipment and maintenance of existing equipments.

Authorities:

1. To plan and monitor laboratory cleanliness.
2. To suggest changes in EOMS.

7. Responsibilities and authorities of Attendant

1. To execute the verbal and non-verbal orders of various authorities to carry out the day-to-day activities.
2. Opening and closing of assigned locations.
3. To switch off all the electrical appliances in the laboratories and class rooms at the time of closing of the assigned locations.
4. To report the authorities about any damage to the assets as soon as they notice it.

Authorities:

To suggest changes in EOMS processes.

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ACA /PR/F	Monitoring of EOMS objectives	
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Sr. No.	Objectives (What will be done)	Indicator	Resources Required	Methodology of Measurement (How)	Frequency of monitoring (When)	Responsibility
01	To maintain or improve subject results – a. Student Passing b. First class c. Distinction	%	Competent staff, availability of required infrastructure, materials	% of passed, First class and Distinction students	Once in semester	Subject teacher and Respective HOD
02	To improve overall development of student through participation in Co-curricular and extra-curricular activities.	% of student participation	Competent staff, availability of required infrastructure, materials, manpower, approved budget	Calculate % of students participating in Co-curricular and extra-curricular activities in the department.	Once in a year	Respective HOD
03	Improve / Sustain student satisfaction by 5% compared to the last feedback.	Rating	Competent staff, availability of required infrastructure, materials	Obtain student feedback once in a semester.	Once in semester	Respective HOD
04	To reduce Student Complaints related to Academics	Numbers		Count student complaints received per month	Monthly	Respective HOD
05	To ensure syllabus completion on time	%		Plan vs actual of course plan	Monthly	Subject teacher and Respective HOD
06	To execute content beyond syllabus	Numbers		Number of activities conducted for content beyond syllabus per subject per semester	Semester	Subject teacher and Respective HOD
07	To increase research and publications (intellectual property)	Numbers		Number of papers published per faculty per semester	Semester	Subject teacher and Respective HOD
08	To increase extension and outreach activities by 5% compared to the previous year	%		Plan vs actual of outreach activities	Yearly	Respective HOD

Note: Targets are defined in EOMS objectives status.



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ACA/PR/F	Monitoring of EOMS objectives		
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Sr. No.	Process	Process Owner	Process Out put
01	Establish the EOMS objectives at relevant functions, levels and processes.	Principal & HODs	--
02	Ensure that EOMS objectives are: • Consistent with the EOMS policy • Measurable & targets are defined • Applicable requirements are taken into consideration • Relevant to the services and enhancement of student satisfaction • Monitored and frequency of monitoring is defined • Communicated to relevant functions & levels	Principal & HODs	--
03	Determine following for achieving the EOMS objectives: • What will be done • What resources will be required • Who will be responsible • When it will be completed • How the results will be evaluated	Principal & HODs	--
04	Maintain the data as per above requirements at relevant functions & levels.	HOD	EOMS Objective Status
05	Compare it against the set target and determine level of performance.	HOD	EOMS Objective Status
06	In case of non-achievement of the target, analyze, evaluate the failure and initiate necessary actions.	HOD	EOMS Objective Status
07	Present the data and actions initiated (if any) related to EOMS objectives in the Management Review Meeting.	HOD	EOMS Objective Status



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ACA/PR/01	Academic year Planning	
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Input	UoM, Academic Calendar, Campus holidays, Co-curricular and Extracurricular activities.
-------	--

Sr. No.	Activity	Owner	Process Output
01	Assign the work of planning to responsible faculty at least a month before commencement of academic year. Communicate to the concern faculty.	Principal/Vice-Principal	List of Committees
02	Receive correct inputs from all the concerned before the start of the semester with scheduled dates. Identify college level activities in academic session.	HOD	--
03	Finalizing activities in academic session.	Principal/Vice-Principal, HOD	--
04	Prepare & finalize portfolio of academic activities.	Principal/Vice-Principal, HOD	List of committees
05	Prepare & finalize academic calendar of institute and department consisting of – • Commencement of term • Induction program for First year, Direct Second year Engineering (DSE) students • Curricular Activities such as Lectures, Practical, Seminars and Projects • Industrial Visits as per syllabus requirement. • Holidays • Co-curricular activities • Extracurricular activities like annual social gathering, sports. • Social responsibility events • FDP events • Unit Tests, UoM Examination. • Student feedback • Principal Meeting, Department meeting, Mentor - Mentee Meeting, Parent's meeting • Academic monitoring committee meeting • Term work submission, Defaulter list and Conclusion of teaching • Examination Schedule	Principal/Vice-Principal, HOD	Institute Academic Calendar, Department Event Calendar
06	Mention total number of working days in Institute Academic Calendar, Department Event Calendar.	Principal/Vice-Principal, HOD	Institute Academic Calendar, Department Event Calendar
07	Authentication by higher authorities.	Principal/ Vice-Principal	Institute Academic Calendar, Department Event Calendar

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ACA/PR/01	Academic year Planning		
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Sr. No.	Activity	Owner	Process Output
08	Circulate to each concern section & department at least one week before commencement of the semester (Once received from University)	HOD	Institute Academic Calendar, Department Event Calendar
09	Track the Institute Academic Calendar, Department Event Calendar for completion of events as planned. Take follow-up, make alternate arrangements if required and ensure completion of events.	Principal, Vice-Principal, HOD, Academic Coordinator	Institute Academic Calendar, Department Event Calendar

Output	Prepared academic / semester plan
--------	-----------------------------------

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Timely preparation of Institute Academic Calendar, Department Event Calendar	Days	No. of days the finalized calendar is circulated to all the departments prior to the commencement of the semester	Each Semester	Vice-Principal, HOD, Academic Coordinator	Institute Academic Calendar, Department Event Calendar
Execution of Institute Academic Calendar, Department Event Calendar	%	Calculate the percentage execution of the calendar events	End of each semester	Vice-Principal, HOD, Academic Coordinator	Reviewed Institute Academic Calendar, Department Event Calendar

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ACA/PR/02	Preparation of Timetable		
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Input	University curriculum / scheme, Academic Calendar, Load Distribution
-------	--

Sr. No.	Activity	Owner	Process Out put
01	Assign the work to the Time table Coordinator. Communicate to the concern faculty.	Principal, Vice-Principal, HOD	List of academic committees
02	Prepare & finalize teaching load distribution of subjects to faculty by offering subject choice. Ensure even load distribution and balanced portfolios at the institute and department level to avoid overloading / under loading of the faculties.	HOD	Load Distribution
03	Decide & submit faculty requirement (if necessary).	HOD	Faculty Requirement
04	Check the availability of laboratories & class rooms.	Time Table Incharge, lab Incharge	--
05	Arrangement of lecture & practical within existing lab & class rooms without overlapping of Class room, faculty and Laboratory.	Time Table Incharge	--
06	Include Meditation Slot, long break & short break.	Time Table Incharge	--
07	Include details of subject name, name of faculty, class room number & Subject- laboratory name.	Time Table Incharge	--
08	In case of shared faculty with other department, discuss final draft of the time table with the concerned department time table in-charges and ensure no overlapping of workload.	Time Table Incharge	--
09	Prepare class wise time table, Laboratory Time Table with its utilization, Individual Time Table with load/week and Class Room Time Table.	Time Table Incharge/ Lab Incharge	Class wise time table, Laboratory Time Table, Faculty Time Table, Class Room Time Table
10	If more number of time slots are available than requirement, discuss and decide the extra-activities which can be covered during these slots.	HoD & Time Table Incharge	--"
11	Authentication by higher authorities.	Principal, Vice-Principal, HOD, & Time Table Incharge	--"
12	Prepare master time table.	Time Table Incharge/ HOD	Master time table
13	Circulate to faculty and Display time table on notice board.	Time Table Incharge	--

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ACA/PR/02	Preparation of Timetable		
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Sr. No.	Activity	Owner	Process Out put
14	To avoid frequent changes in the time tables, anticipate the disturbances and make alternate arrangements if required.	HOD, Dept. Academic Coordinator & Time Table Incharge	--

Output	Prepared Time table
--------	---------------------

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Timely preparation of Time tables	Days	No. of days before the finalized time tables are circulated to all the faculty prior to the commencement of the semester	Each Semester	Time table In-charge	All Time tables
Accuracy of time tables	Numbers	No. of revisions / modifications made in the time tables in the semester due to incorrect input	Each Semester	Time table In-charge	All Time tables



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ACA/PR/03	Course Plan & Lab Plan		
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Input	Academic calendar, Teaching scheme, UoM syllabus, Text and Reference books, Faculty Time Table, Online reference material
-------	---

Sr. No.	Activity	Owner	Process Out put
01	Refer syllabus and teaching scheme and allocate the number of lectures to each unit. In case of practical, allocate number of practical hours to each Experiment/Assignment.	Faculty/ Subject Incharge	--
02	Prepare teaching plan as per UoM syllabus in prescribed format with following details. a. Module/ Chapter Name b. Lecture Number c. Topic Planned d. Planned date e. Conducted date f. Delivery Method g. CO mapped h. Remark (if any variations) i. Learning outcomes – CO / PO j. Provision for content beyond syllabus.	Faculty	Teaching plan, CO-PO Mapping sheet
03	Prepare batch wise practical plan as per university curriculum in prescribed format with following details. a. Experiment no. b. Name of Experiment c. Equipment/ Software Required d. Planned Hrs. e. Date of Performance f. Date of Assessment g. Remark (if any variations) h. Learning outcomes –LO/ CO / PO	Faculty	Practical plan, LO CO-PO Mapping sheet
04	Ensure that syllabus completion as per teaching / practical plan.	Faculty	--
05	Authenticate teaching and practical plan from HOD.	Faculty	--
06	At the end of every month, review syllabus completion as per teaching / practical plan & fill monthly report.	Faculty	Academic monitoring report
07	Check & identify non-conformity in lecture / practical (Absent / Non completion of topic within lecture).	Faculty	--

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ACA/PR/03	Course Plan & Lab Plan		
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Sr. No.	Activity	Owner	Process Out put
08	Initiate the action for non-conformity in lecture/practical and ensure to complete syllabus within stipulated time.	Faculty	--

Output	Plan for syllabus coverage within time
--------	--

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Timely preparation of teaching Plan (Lecture / practical)	Days	No. of days the finalized plan is prepared and approved from HOD prior to the commencement of the semester	Each Semester	Faculty	Course Plan (Lecture / practical)
Execution of plan	No of lectures / Practical	Number of lectures / practicals conducted as per plan	Monthly	Faculty	Cumulative number of classes / practicals taken report
Execution of plan	%	% Syllabus coverage as per plan.	Monthly	Faculty	Syllabus coverage Report

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ACA/PR/04	Preparation of Course File		
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Input	University syllabus, teaching plan & Practical plan, Text & reference books
-------	---

Sr. No.	Activity	Owner	Process Out put
01	Prepare module wise notes, PPT (If required)	Faculty	Notes & PPTs
02	Prepare module wise question bank.	Faculty	Question bank
03	Prepare module wise assignment.	Faculty	Assignment
04	Check the time table. If more number of time slots are available for classes than requirement, engage additional classes to impart knowledge beyond syllabus /Library/ Mediation Slot.	Faculty	--
05	Ensure syllabus completion as per teaching plan and scheduled time period.	Faculty, HOD	--
06	Verify & update the course file. Course file should contain- a. Index of content b. Vision, Mission, EOMS policy & Goals of institute c. Vision & mission of the department d. Academic Calendar of institute and department e. Program structure and Course Syllabus f. COs and CO-PO Mapping g. Class time table, Individual time table h. Course Plan/Lab Plan i. Course Material (Notes, PPT handouts, etc.) j. Test (1 & 2) Question papers k. Test (1 & 2) sample answer script l. End-sem. Question papers m. End-sem. sample answer script n. Assignments/Question Bank o. Last Year Result of the subject, if any p. NPTEL Video Lecture of Course (If any). q. Content Beyond Syllabus /Course Gap	Faculty	Course file
08	Prepare the laboratory manuals with sample readings	Faculty	Laboratory manual
09	Preparation of the laboratory for conduction of experiments	Faculty & Lab assistant	--
10	Prepare practical wise oral question bank	Faculty	Practical oral question bank

Output	Prepared for course delivery
--------	------------------------------

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Timely preparation of course file and lab manual.	Days	One week before commencement of semester*	Twice in a Semester	Faculty	Course File, Lab Manual

*If the subject is allotted to the faculty for the first time or in case of revision in UoM syllabus, 50% notes should be prepared before the commencement of semester and remaining notes should be prepared by the mid of semester.

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ACA/PR/05	Lecture / Course Delivery		
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Input	Syllabus, Teaching Plan, Teaching aid, Lab Manual, Adequate Infrastructure
-------	--

Sr. No.	Activity	Owner	Process Output
A	Theory Sessions		
01	Ensure availability of the course file as per content.	Faculty	Course file
02	Summarize the topic covered in the previous lecture. Sort out the Queries (if any) related to that topic.	Faculty	--
03	Cover planned topic as per teaching plan.	Faculty	Course Plan
04	Conclude the session and sort out student queries (if any).	Faculty	--
05	Take student attendance. (Can be conducted at the start or end of Lecture)	Faculty	Attendance Record
06	Faculty availing leave shall adjust his/her work load with respective class subject faculty & conduct missed session in following days	Faculty	--
07	The faculty should refer the previous subject results for the course and plan corrective measures.	Faculty	--
B	Practical Session		
01	Faculty to ensure the availability/working of the equipments in respective laboratories. Laboratory timetable to be displayed	Laboratory Assistant & Faculty	--
02	Prepare experimental set-up as per Lab Manual. (Physical/Virtual)	Tech/Lab Assistant	Lab Manual
03	The list of the practical is prepared as per syllabus and conduction plan is approved by HOD.	Faculty	Lab Plan
04	Details about the practical are explained to each batch and guide lines for performing the practical are given to students. Laboratory manual is made available to the students for reference before/during the conduction of Practical.	Faculty	--
05	Conduction of the experiment.	Student & Faculty	--
06	At the end of the experiments, practical Incharge ensures the necessary readings/outputs are taken and log book/Journal is completed & Certified.	Student, Faculty	Practical Journal
07	Resolve queries of the student (if any).	Faculty	--
08	Verify the results and conclusion.	Faculty	--
09	Check the Student Journals in Same/Next laboratory session. Share the result of assessment with the student.	Faculty	CAS Sheet
10	Take student attendance.	Faculty	Log Book
11	Maintain record of practical session	Faculty	Attendance Sheet

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Sr. No.	Activity	Owner	Process Output
C	Tutorial		
1	Prepare Practice Numerical / Assignment	Faculty	Assignment
2	Resolve queries of the student (if any).	Faculty	--
3	Check the Tutorial Practice Numerical/Assignment in Same/Next Tutorial session. Share the result of assessment with the student	Faculty	CAS Sheet
4	Maintain record of Tutorial session	Faculty	Attendance Sheet

Output	Syllabus coverage as per plan, student ready to appear for internal / external examination.
---------------	---

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Syllabus (Theory and practical/Tutorial) completion as per plan	%	Monitoring of syllabus completion	Monthly	Faculty	Monthly syllabus completion report
Effective delivery of course content to the students	Numbers	Student feedback received through Mentormeeting	Monthly	Faculty	Mentor Meeting Report
Understanding of the Student	%	Student Feedback	Once in Semester	Faculty	Course/Lab Exit Survey



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ACA/PR/06		Conduction of Internal Examination (IA-1 & IA-2)	
Rev.: 00 Dated: 11-07-2022		Clause: 8.5.1.5, 8.6, 9.1.1	Page: 01 / 02
Input	UoM Syllabus, Academic calendar		
Sr. No.	Activity	Owner	Process Output
1	Assign the work to the Exam Section	Principal	Circular
2	Preparation of internal examination time table	Exam Section & Dept. Examination Coordinators	Internal examination time table
3	Allotment of supervision duties	Exam Section & Dept. Examination Coordinators	Circular
4	Prepare & submit question papers as per institute format	Subject Teacher	question papers
5	Arrangement of class room	Exam Section & Dept. Examination Coordinators	--
6	Conduction of internal examination collection of answer sheets	Exam Section, Dept. Examination Coordinators & Junior supervisor	--
7	Distribution of answer sheet to the concerned faculty.	Exam Section, Dept. Examination Coordinators	--
8	Assessment & declaration of internal examination result.	Exam Section, Subject Teacher and Departmental Examination Coordinators	Internal examination result
9	Show the respective answer sheets to the students in class. Ensure that the students are given the opportunity to appeal or ask for rectification of the outcomes of the assessment activity and grade. Also ensure that the students have full access to their work and its detailed assessment, as well as opportunities for feedback.	Subject Teacher	--
10	Prepare record of internal examination marks, display on department Notice Board and information to parents through mentor	Exam Section, Dept. Examination Coordinators & Mentor	Mentor report
11	Retain the sample answer sheets in the department.	Dept. Examination Coordinators	--
Output	Preparing students to appear for internal / UoM examination.		

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ACA/PR/06	Conduction of Internal Examination (IA-I & IA-II)		
Rev.: 00 Dated: 11-07-2022	Clause: 8.5.1.5, 8.6, 9.1.1		Page: 02 / 02

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Timely preparation of question papers	Days	Number of days the question papers is submitted to the test coordinator before commencement of internal tests.	Every examination	Subject Teacher	Question Paper
Timely preparation of test results	Days	Number of days the internal examination result is submitted to the departmental examination coordinator	Every examination	Subject Teacher	Internal Assessment result
Attendance	%	Number of students present for the internal examination	Every examination	Subject Teacher	Internal Assessment records



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ACA/PR/07	Preparation & Conduction of End Semester Examination		
Rev.: 00 Date: 11-07-2022	Clause: 8.5.1.4, 8.6, 9.1.1		Page: 01 / 02

Input	UoM Examination time table & Stationary from UoM
-------	--

Sr. No.	Activity	Owner	Process Out put
	• End Semester Theory Examination		
1	Refer & display UoM examination time table.	Exam Section	Examination time table
2	Submit requirement of stationary for practical, oral & theory examination to UoM.	Exam Section	Letter of submission
3	Appointment of Internal Senior supervisor	Principal, Vice-Principal and Exam Section	Office order
4	Allotment of supervision duties & issuing junior supervisor order.	Exam Section	Office order
5	Receiving stationary from UoM.	Exam Section	--
6	Distribution of hall tickets to the students.	Department Exam Coordinator	Hall tickets
7	Arrangement and preparation of examination block with seating arrangement.	Exam Section	Block allotment
8	Display of seating arrangement of candidates on notice board prior to examination scheduled time.	Examination clerk and Peon	Seating arrangement
9	Print examination question papers from the UoM authorized web portal as per schedule of the examination.	Exam Section	Question paper
10	Distribution of question papers as per block arrangement and conduction of examination.	Internal Senior & Junior supervisor	Examination conduction
11	Ensure that methods to detect malpractices during exam conduction.	Exam Section & Vigilance committee	--
12	Submission of Junior supervisor report and answer sheet to examination control room.	Junior supervisor	--
13	Sealing & dispatch of answer FE and BE answer sheets to respective CAP center.	Senior Supervisor & Dispatch clerk	Answer sheets Dispatch at CAP
14	Sealing and submission of SE and TE answer sheets to college CAP center.	Senior Supervisor & Dispatch clerk	Answer sheets Dispatch at college CAP
15	Assessment of SE and TE answer sheets at college CAP	CAP director	Mark lists
16	Online assessment of FE and BE answer sheets through UoM link	CAP director	Mark lists
17	Submission of SE and TE mark lists to UoM	COE, Exam Section	Result
18	Distribution of result through Exam section.	COE, Exam Section	-

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ACA/PR/07	Preparation & Conduction of End Semester Examination		
Rev.: 00 Date: 11-07-2022	Clause: 8.5.1.4, 8.6, 9.1.1		Page: 02 / 02

Sr. No.	Activity	Owner	Process Out put
19	Prepare, Audit & submit bill of examination to UoM as per audit schedule.	Exam Section	Examination Bill
20	Distribute examination remuneration to all Teaching & Non-teaching staff	Accountant	Remuneration distribution
	• Practical / Oral Examination		
1	Appoint the Subject faculty for conduction of the examination.	Head of Department and Dept. Exam Coordinator	Allotment of examiners
2	Preparation of tentative budget for conduction of PR / OR to the exam Section.	Dept. Exam Coordinator, Exam Section	Availability of remuneration to examiners
3	Prepare & submit department wise tentative PR / OR /TW schedule to Exam Section.	Department Examination Coordinator	Tentative Time table
4	Collect stationary from examination section required for practical examination.	Dept. Exam Coordinator & Lab assistant	--
5	Finalize & display PR / OR /TW time table consulting with external examiner as per schedule prepared.	Head of Department and Dept. Exam Coordinator	Final Time table
6	Conduction of PR / OR /TW examination as per schedule	Concerned internal and external examiner	--
7	Issuing conduction certificate & remuneration to external examiner as per the remuneration rules of UoM.	Exam Section & Department Examination Coordinator	Conduction of examination
8	Submission of Mark lists to Exam Section after conduction of examination.	Concerned internal and external examiner, Dept. Exam Coordinator	OR/PR mark list
9	Prepare and submit bill of OR/PR exams to examination section.	Dept. Exam Coordinator	Exam Bill submission

Output	Smooth conduction of university theory and practical exam
---------------	---

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Smooth conduction of examination	Number	Number of cases of unfair practices in exam	Each Semester	Exam Section & Team	Exam Record

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ACA/PR/08	Student Projects		
Rev.: 00	Date: 11-07-2022	Clause: 8.5.1.1, 9.1.1	Page: 01 / 02

Input	UoM syllabus, Academic Calendar, Teaching Scheme and Project Diary / Log Book
--------------	---

Sr. No.	Activity	Owner	Process Output
1	Appoint guide and project review panel consisting of all faculty members. Designate one faculty member as project coordinator.	Head of Department	Notice
2	Selection of topic / area of interest & formation of project groups as per their interest.	Student	----
3	Addressing and guiding to the students related to Project, distribution of project diary.	Project Coordinator	----
4	Allotment of project guides to the project groups or individuals as per UoM guidelines.	Head of Department and Project Coordinator	Notice
5	Submission of synopsis with duly signed by Guide and Head of Department.	Project Coordinator	Synopsis Report
6	Schedule, Organize and review the progress of project	Project Coordinator, Review panel	Review of progress
7	Progressive review of the project work by review panel.	Review panel	----
8	Guideline regarding the detail documentation of project report by faculty members.	Project Coordinator	Project Guidelines
9	Prepare & finalize project report by consulting with project guide as per UoM guidelines.	Student and project guides	Project report
10	Preparation & submission of department wise tentative Project examination schedule to the Exam Section.	Exam Section & Dept. Exam Coordinator	Tentative schedule of project exam
11	Display final Project examination schedule on notice board.	Dept. Exam Coordinator	Final schedule of project exam
12	Evaluation of project work by external examiner.	External examiner	----
13	Submission of project report & project to the department.	Student	project report
14	Issuing conduction certificate & remuneration to external examiner.	Dept. Exam Coordinator	Certificate
15	Submission of Mark lists to Exam Section after conduction of examination.	Project Guide & Dept. Exam Coordinator	Project mark list
16	Prepare and submit bills of all exams conducted to examination section.	Dept. Exam Coordinator	Exam Bill submission

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ACA/PR/08	Student Projects		
Rev.: 00 Date: 11-07-2022	Clause: 8.5.1.1, 9.1.1	Page: 02 / 02	

Output	Smooth conduction of project examination
--------	--

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Smooth conduction of examination	Number	Number of pass and fail students	Each Semester	Project Guide and Project coordinator	Mark sheet and attendance sheet.

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ACA/PR/09	Industrial / Academic Visit		
Rev.: 00 Date: 11-07-2022	Clause: 8.5.1.1		Page: 01 / 02

Input	UoM syllabus, Academic Calendar
-------	---------------------------------

Sr. No.	Activity	Owner	Process Out put
	• Pre-Visit plan		
1	Assign the work to the concerned faculty who will be the Industrial/Academic Visit Coordinator	Head of the Department	Notice
2	Identify and shortlist the industries as per the curriculum of UoM	Industrial Visit Coordinator & Faculty	--
3	Finalize the industries in consultation with Head of the Department and send request letters for industrial visit mentioning its necessity with details of institute	Industrial Visit Coordinator & faculty	Request letters to the industries
4	Finalize date of visit and time in consultation with the industry.	Industrial Visit Coordinator & faculty	Visit confirmation Letter/Email
5	Finalization of transport & accommodation facility if required, route and schedule.	Industrial Visit Coordinator & faculty	--
6	Prepare the budget of the Industrial visit and take approval from principal & Higher authorities	Industrial Visit Coordinator & faculty	Budget approval and Visit approval letter
7	Circulate notice to the respective students with necessary instructions along with contribution towards visit expenses if any	Industrial Visit Coordinator & faculty	Notice to the students
8	Prepare list of students and Faculties in consultation with the Head of the Department	Industrial Visit Coordinator & Faculty	List of the students and Faculty visiting the industry.
9	Undertaking from the students participating in visit.	Industrial Visit Coordinator, faculty and Head of the Department	Undertaking from students participating in visit
	• On the date of visit		
1	Instruct the students regarding discipline and safety	Industrial Visit Coordinator & Faculty	--
2	Take attendance of the students before leaving the campus.	Industrial Visit Coordinator & Faculty	Attendance of the Participating Students
3	Form the batches of the students for smooth conduction of the visit if required.	Industrial Visit Coordinator & Faculty	--
4	Letter of thanks to industry and concerned Personnel at the end of visit.	Industrial Visit Coordinator & Faculty	Letter of thanks
5	Attendance of the students before leaving industry	Industrial Visit Coordinator & Faculty	Attendance List of the Participating Students and photographs

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ACA/PR/09	Industrial / Academic Visit		
Rev.: 00 Date: 11-07-2022	Clause: 8.5.1.1		Page: 02 / 02

Sr. No.	Activity	Owner	Process Out put
	After the Visit Conclusion		
1.	Instruct the students to prepare Industrial visit report mentioning the key take-away from the visit and its usefulness.	Industrial Visit Coordinator & Faculty	Visit Report
2.	Prepare the Industrial expenditure report and get the necessary approval from the Head of the Department for further actions and display for student information.	Industrial Visit Coordinator & Faculty	Visit Expenditure Report
3.	Feedback from the Students regarding Transportation and other facilities, Visit Location and Visit Usefulness	Industrial Visit Coordinator & Faculty	Feedback Report

Output	Smooth completion of industrial visit
---------------	---------------------------------------

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Execution of the visit as per the schedule	Number of visits Planned Vs Actually conducted	Monitoring of Planned Vs Actual execution of industrial visit	Each Semester	Industrial visit Coordinator	Visit Report

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ACA/PR/10	Co-Curricular & Extra-curricular Activities		
Rev.: 00	Date: 11-07-2022	Clause: 8.5.1.1, 7.1.3.2	Page: 01 / 02

Input	Academic calendar, Event calendar
--------------	-----------------------------------

Sr. No.	Activity	Owner	Process Out put
	• Co-curricular Activities:		
1	Assign the work to the concerned faculty as Coordinator.	Principal/ Head of the Department	Notice
2	Plan to organize expert lectures, workshops, training programs, technical events consulting with higher authorities	Coordinator	Academic calendar/ notice
3	Prepare & take approval of activities and budget from Principal and higher authorities	Coordinator	Budget/approval Letter
4	Finalize & invite the resource persons	Coordinator	Invitation Letter
5	Publicity & promotion of the event	Coordinator	--
6	Smooth conduction of event as per the plan.	Coordinator	--
7	Obtain feedback from the participants.	Coordinator	Event feedback form
8	Prepare & submit activity report to concern authority.	Coordinator	Activity report
9	To avoid non-execution of any of the planned event, anticipate the disturbances and make alternate arrangements if required.	Coordinator	--
	• Extra-curricular Activities:		
1	Assign the work to the concerned faculty as Coordinator.	Principal/ Head of the Department	Notice
2	Plan to organize extra-curricular activities (Sports, Social events, cultural events etc.) in consultation with department coordinators & higher authorities.	Coordinator	Academic calendar/Notice
3	Work distribution as Faculty & Students Coordinators, team members & Volunteers for the event.	Coordinator	Notice
4	Prepare & take approval of activities and budget from Principal and higher authorities	Coordinator	Budget/approval letter
5	Finalize & invite chief guest for the event.	Coordinator	Invitation letter
6	Motivate the students to participate in the event.	Committee Members	--
7	Smooth conduction of event as per the plan.	Coordinator	--
8	Ensure safety of the sports ground and other sports equipment which is suitable to support students' development of competence.	Coordinator	--
9	Prepare & submit activity report to concern authority.	Coordinator	Activity report
10	To avoid non-execution of any of the planned event, anticipate the disturbances and make alternate arrangements if required.	Coordinator	--

Output	Smooth conduction of Co-curricular & extra-curricular Activities
---------------	--

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ACA/PR/10	Co-curricular & Extra-curricular activities		
Rev.: 00 Date: 11-07-2022	Clause: 8.5.1.1, 7.1.3.2		Page: 02 / 02

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Conduction of activities	Number	Number of activities conducted. Plan Vs Actual	Every Semester	HOD & Event Coordinator	Record of student participation, Report of the event & Awards won by the students if any

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ACA/PR/11	Nonconformity in Teaching & Learning process		
Rev.: 00 Date: 11-07-2022	Clause: 8.7, 10.1		Page: 01 / 02

Input	Teaching Plan, Syllabus, Attendance registers, Term work, test results.
-------	---

Sr. No.	Activity	Owner	Process Out put
A. Nonconformities related to Student performance			
01	Following are the nonconformities related to student: Poor attendance – Aggregate (Theory and Practical) attendance < 75%. Failure in class test	----	Non-Conformity Register
02	Consolidate the data related to student attendance at Mid-semester. Forward the data to Parents in case of defaulter student (Student with poor attendance).	Class Coordinator / HOD	Parent communication report
03	At the end of semester, Identify students with Aggregate (Theory and Practical) attendance < 75%. Display the list.	HOD	Provisional Detention List
04	Decide appropriate disciplinary action.	Principal, HOD	Minutes of Principal Meeting
05	Display final list of detained students.	Principal, HOD	Detention List
B. Nonconformities related to Conduct of Theory and Practical sessions			
01	In case of noncompliance to the Teaching Plan, plan for extra lecture / practical session to cover the syllabus.	Faculty	----
02	On monthly basis, review percentage syllabus coverage against planned, in case variance is more than 10%, initiate necessary corrective actions so that 100% syllabus coverage is achieved at the end of semester.	Faculty & HOD	Non-Conformity Register
Nonconformities observed in Teaching - Learning process.			
Sr. No	Aspect	Nonconformity	Actions
01	Student Attendance	Poor Student Attendance i.e. less than 75 % at the end of semester	Monitoring student attendance twice in the semester and communicating the same to student & parents.
02	Teaching	Lectures are not conducted as per teaching plan.	Monthly monitoring
03	Teaching	Syllabus not covered as per teaching plan.	Monthly monitoring
04	Learning	Failure in the internal tests	Counseling, Assignments
05	Student satisfaction	Poor Performance of Student	Special Attention and counseling by Mentor and monitoring by Head of the Department per semester.
06	Student Complaint	Major and Repetitive Complaint about student.	Initiate necessary actions after due investigation.
07	Maintain records of all the non-conformities encountered along with correction, root cause and corrective action.	HoD	Non-Conformity Register / Attendance register, Mentor Book

Output	Coverage of syllabus & Students eligible to appear for the University examinations
--------	--



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ACA/PR/11	Nonconformity in Teaching & Learning process		
Rev.: 00 Date: 11-07-2022	Clause: 8.7, 10.1		Page: 02 / 02

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Effective actions on internal non-conformities	Numbers	Number of repetitive internal non-conformities in the department	Monthly	Head of the Department, Dept. Academic coordinator & class teacher	Non-Conformity Register

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ACA/PR/12	Result Analysis		
Rev.: 00 Date: 11-07-2022	Clause: 8.5.1.5, 9.1.4, 9.1.5	Page: 01 / 01	

Input	University result gazette, Student database
-------	---

Sr. No.	Activity	Owner	Process Out put
01	Allocate the department wise faculty for result analysis	HOD	Notice
02	Collection of results data from Exam Section.	Department Exam Incharge	Term End Examination result
03	Detailed Result analysis as per prescribed format	Department Exam Incharge	Result analysis
04	Inform result analysis to the concerned faculty and higher authorities.	Head of the Department and Department Exam Incharge	--
05	Counseling of faculty members having poor result	Head of the Department	--
06	Mentoring and Counseling of Failed students by Mentor	Mentor	Mentor Book

Output	Appreciation of faculty & measures to improve result
--------	--

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Class Result	%	Class students result with Distinction, First class, All clear, ATKT, Fail	Each Semester	HOD & Department Exam In charge	Result Analysis
Subject teacher result	%	Subject wise percentage of result	Each Semester	HOD & Department Exam In charge	Result Analysis
Class toppers	%	Percentage result of toppers	Each Semester	HOD & Department Exam In charge	Result Analysis



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ACA/PR/13	Faculty Development Program		
Rev.: 00	Date: 11-07-2022	Clause: 7.2	Page: 01 / 02

Input	Academic Calendar, Advances in Technology, Training Calendar (AICTE/University), Event calendar, Pamphlets, websites
-------	--

Sr. No.	Activity	Owner	Process Out put
a. Organized by AMRIT			
01	Decide subject and Plan to organize programs under FDP (STTP, Workshop, Conference and Seminar).	Principal, Vice-Principal & HOD	Notice
02	Permission & approval of budget for the program from Principal & Higher authorities.	Head of the Department and Faculty Coordinator	Budget approval letter
03	Finalize & invite the resource persons for the event.	Faculty Coordinator	Invitation Letter
04	Formation of committees & assign duties to faculty.	H.O.D./Faculty Coordinator	Notice
05	Publicity & Promotion of the event.	Faculty Coordinator/Committee members	Event Brochure/social media
06	Smooth conduction of program as per the plan.	Faculty coordinator & Committee members	FDP Agenda
07	Feedback of the participants.	Faculty coordinator & Committee members	Event feedback form
08	Prepare & submit activity report to concerned authority.	Faculty coordinator/committee members	Event report
b. Attended by faculty outside AMRIT			
01	Refer received pamphlets, web sites etc. of FDP (STTP, Workshop, Conference and Seminar).	Head of the Department & FDP coordinator	Events availability
02	Depute faculty for the FDP.	Head of the Department and Principal	Faculty participant
03	Receive the participation certificate for FDP.	Faculty participant	Attendance certificate
04	Share the training material with other faculties in the department.	Faculty participant	Report/Training Material
05	Maintain record of knowledge sharing by faculty participant with other departmental faculties.	HOD & FDP coordinator	Training Record

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ACA/PR/13	Faculty Development Program		
Rev.: 00 Date: 11-07-2022	Clause: 7.2	Page: 02 / 02	

Output	Successful completion of program with enhancement in knowledge & skills sets
--------	--

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Participation in Trainings / Workshop / Conference / MOOCs	Number	Number of Trainings / Workshop / Conference / MOOC undergone by the faculty	Every Semester	All Faculty	Record of Trainings / Workshop / Conference / MOOC attended
Faculty Publication / Paper presentation	Number	Number of Publications	Every Semester	All Faculty	Faculty Publication Record



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ACA/PR/14	Internal Academic Monitoring		
Rev.: 00 Date: 11-07-2022	Clause: 9.1.1, 9.1.4, 9.1.5		Page: 01 / 01

Input	UoM Syllabus, UoM academic Calendar, Institute Academic Calendar, Teaching Plan, Time Table
--------------	---

Sr. No.	Activity	Owner	Process Out put
01	Appoint Academic Monitoring Committee with prior discussion with Principal.	IQAC director, Principal, Vice-Principal and All HODs	List of committee member
02	Prepare list of parameters to be monitored& Academic Monitoring report formats.	IQAC director and Head of Department	Academic Monitoring report
03	Communicate parameters to be monitored to faculty, it's importance and effectiveness.	Head of Department	Minutes of meeting
04	Prepare & Submit monitoring report to IQAC Director Monthly – syllabus coverage Monthly – student attendance report	Head of Department, Dept. Academic Coordinator	Academic monitoring report
05	Corrective action if necessary for non-completion as per the plan.	Head of Department, Dept. Academic Coordinator	Corrective / Preventive Action Report

Output	Continuous improvement in academics
---------------	-------------------------------------

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Effectiveness of Teaching & learning processes	%	Plan Vs Actual syllabus coverage	monthly	Faculty / HOD / IQAC director	Academic monitoring report

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ACA/PR/15	Monitoring and Measuring Resources (Calibration / Verification)		
Rev.: 00	Date: 11-07-2022	Clause: 7.1.5	Page: 01 / 01

Input	Monitoring & measuring equipment's in the laboratory.
-------	---

Sr. No.	Activity	Owner	Process Out put
01	Prepare working status report of all equipment in the laboratory before commencement of semester and complete the maintenance if required.	HOD, Laboratory Incharge & Laboratory Assistant	Equipment working status report
02	Enlist all monitoring & measuring equipment's.	Laboratory Incharge	List of all monitoring & measuring equipment
03	Identify the equipments which require calibration or internal verification.	Laboratory Incharge	List of Equipments
04	Determine the calibration or verification frequency.	Laboratory Incharge	---
05	Get the instrument calibrated from authorized vendor and receive the certificate, if calibrated.	Laboratory Incharge	Calibration Certificate
06	Carry out Laboratory Audit as per the frequency; compare the result against the acceptance criteria. In case the error is more than acceptable criteria, identify the instrument and keep it separately to avoid un-intended use.	Laboratory Incharge	Dead Stock Register, Verification Report

Output	Verified or calibrated equipment ready for use.
--------	---

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Verification of equipment / Calibration	Plan vs actual	Plan vs actual of Verification/ Calibration	As per Verification / Calibration schedule	Laboratory Incharge & Laboratory Assistant	Verification Report & Record or Calibration Certificate

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ACA/PR/16	Control of Student Property		
Rev.: 00 Date: 11-07-2022	Clause: 8.5.3	Page: 01 / 01	

Input	Journals, Assignment, Term work submission report, Internal Assessment report, Project report etc.
--------------	--

Sr. No.	Activity	Owner	Process Out put
01	Assign the responsibilities to control Student property	Head of Department	Notice
02	Student property & its retention period - Term work files – Min. 5 years (three samples) - Project report - Min. 5 years - Internal Assessment examination papers - Min. 5 years (Three samples per subject) - Project model (Institute Funded/Sample Model)	HOD, Subject Teacher & Respective Coordinator	Preservation of Student property
03	Ensure the Submission of the Student property	HOD, Subject Teacher & Respective Coordinator	----
04	Preserve & check the student property till the retention period.	HOD, Subject Teacher & Respective Coordinator	Preservation of Student property
05	Decide the action to be taken after its retention period.	Principal, Vice Principal and Head of Department	Decided Policy

Output	Preservation of Student property
---------------	----------------------------------

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Proper preservation of student property	Number	Number of incidents of loss of student property	Every Semester	HOD & Concerned faculty	----

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ACA/PR/17	Student Feedback		
Rev.: 00 Date: 11-07-2022	Clause: 9.1.2.1, 9.1.3	Page: 01 / 01	

Input	Academic calendar, Feedback Form, Student Attendance, EOMS & NAAC Guidelines
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Sr. No.	Activity	Owner	Process Out put
01	Assign the responsibility to take student feedback.	Principal, Vice-Principal All HOD	List of committee member
02	Finalize feedback form including performance measures	Principal, Vice-Principal All HOD & IQAC Director	Feedback form
03	Student feedback shall be taken once in a semester.	IQAC Director & All HOD	Student Feedback
04	Identify the Students having attendance $\geq 75\%$ attendance & maintain the list.	Class Teacher	List of students having attendance above 60%
05	Counseling the students before taking feedback.	All HODs & Class Teacher	----
06	Take feedback from students having attendance of 75% and above.	Assigned Authority	List of eligible students
07	Prepared feedback summary of individual faculty.	IQAC Director & All HOD	Feedback Analysis
08	Forward the feedback Summary to Principal & Vice-Principal	Assigned authority	Feedback Analysis
09	Identify the faculty who have feedback more than 75% for consecutive 3 semesters and give Appreciation Letter.	Principal, IQAC Director & HOD	Appreciation Letter
10	Identify the faculty whose feedback is less than 50% for consecutive 3 semesters, take explanation letter for the same.	Principal, IQAC Director & HOD	Improvement Letter & Undertaking

Output	Performance evaluation & improvement
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Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Enhancement in student satisfaction	% Feedback Rating	Calculate rating of student feedback	Once in a Semester	Principal, IQAC Director & HOD	Student Feedback Report

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ACA/PR/18	Maintenance of Laboratory Equipments		
Rev.: 00 Date: 11-07-2022	Clause: 7.1.3	Page: 01 / 01	

Input	Laboratory equipment list, Equipment manual
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Sr. No.	Activity	Owner	Process Out put
01	Planning and identification of Laboratory equipment for maintenance.	HOD, Lab Incharge, Tech. Asst./ Laboratory Assistant	Dead Stock Register
02	Determine the frequency and parameters for preventive maintenance of equipment.	Lab Incharge, Tech. Asst./ Laboratory Assistant	Preventive maintenance schedule
03	Carry out the Preventive maintenance as per plan and maintain record of maintenance work carried out. Also maintain record of repair / replacement carried out during maintenance.	Lab Incharge Tech. Asst./ Laboratory Assistant	Preventive maintenance record
04	In case of breakdown, repair the equipment and if beyond repair by technical assistant then call for the external agency.	Lab Incharge Tech. Asst./ Laboratory Assistant	--
05	Maintain record of breakdown maintenance carried out.	Lab Incharge Tech. Asst./ Laboratory Assistant	Preventive maintenance record
06	At the end of semester, collect the data related to breakdowns, identify major and / or repetitive failure, analyze and initiate necessary actions to eliminate recurrence.	Lab Incharge Tech. Asst./ Laboratory Assistant	Preventive maintenance record

Output	Equipment maintained in good working condition.
---------------	---

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Execution of Preventive maintenance	Plan Vs Actual	Plan Vs Actual of Preventive maintenance schedule	Every Semester	Laboratory In charge and Laboratory Assistant / Tech. Assistant	Preventive maintenance record
Failure / damage of the equipment / instrument	Number	Number of failures / Number of damaged equipment in a semester	Every Semester	Laboratory Incharge and Laboratory Assistant / Tech. Assistant	Maintenance record
Timely repair of damaged instrument / equipment	Days	Number of days taken to repair	Every Semester	Laboratory Incharge and Laboratory Assistant / Tech. Assistant	Maintenance record

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ACA/PR/19	Staff Training		
Rev.: 00	Date: 11-07-2022	Clause: 7.2, 7.3	Page: 01 / 01

Input	Feedback Analysis Report, UGC Norms, AICTE emerging trends, IIC requirement
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Sr. No.	Activity	Owner	Process Output
01	Refer Feedback Analysis Report, UGC Norms, AICTE emerging trends, IIC requirement and observation during class monitoring.	All HOD	--
02	Define minimum skills required such as- a. Communication skill b. Subject knowledge c. Class control d. Use of teaching aids e. Competency to teach students with special needs f. Emerging trends	All HOD	Skill matrix
03	Note above skills for each staff.	All HOD	Skill matrix
04	Prepare skill matrix in prescribed format.	All HOD	Skill matrix
05	Sort and identify training needs for each faculty.	All HOD	Skill matrix
06	Ensure that the staff is aware of following through conduction of training program: - EOMS policy and strategy - Relevant EOMS objectives - Their contribution to the effectiveness of the EOMS - Benefits of improved educational organization performance - Implications of not confirming with the EOMS requirements	All HOD	--
07	Prepare the department wise list of required training programme.	FDP coordinator & All HOD	Training calendar
08	Prepare tentative plan of training programme.	FDP coordinator & All HOD	Training calendar
09	Finalizing the programme discussing with higher authorities.	FDP Coordinator and Principal	Training calendar
10	Conduct the training programme as per the plan and maintain record.	FDP Coordinator	Training Record
11	Three months after conduction of a training programme, verify the effectiveness of the training programme for all participants.	FDP Coordinator and all HODs	Training Record
12	Based on the results of the effectiveness verification, initiate appropriate corrective actions such as re-training, counseling etc.	FDP Coordinator and all HODs	Training Record

Output	Improvement in faculty competencies
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Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Timely conduction of training programme	Number	Plan Vs actual of training programme	Each semester	FDP coordinator	Training calendar
Staff attendance for training programme	Number	Number of staff attending training programme	Each semester	FDP coordinator	Training calendar



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ACA/PR/20	Publication of Newsletter		
Rev.: 00 Date: 11-07-2022	Clause: 8.5.1.1		Page: 01 / 01

Input	Academic calendar, Activity report of Department
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Sr. No.	Activity	Owner	Stage Out put
01	Refer academic calendar and conduct meeting with Department coordinators and Activity report of Department.	Institute Coordinator	Minutes of Meeting
02	Data Collection of Faculty and Students activity conducted / organized in the department.	HOD & Department coordinator	--
03	Collect and verify the data.	Newsletter committee	--
04	Finalize all the content to be published after discussing with higher authorities.	Institute Coordinator and Principal	--
05	Handover final document for printing.	Institute Coordinator	--
06	Check the proofs and get the required no. of copies printed and published on institute website.	Institute Coordinator	--
07	Finalize and publish at suitable date if possible.	Institute Coordinator and Principal	--

Output	Published Newsletter.
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Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Accuracy of data published in newsletter	Numbers	Count number of errors in newsletter	As and when	Institute Coordinator	Newsletter

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ACA/PR/21	Charge Handover / Takeover		
Rev.: 00 Date: 11-07-2022	Clause: 8.5.6		Page: 01 / 01

Input	Resignation of Faculty from college, Portfolio change notice
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Sr. No.	Activity	Owner	Stage Out put
01	Receive communication of resignation / leaving of faculty/portfolio change	HOD	--
02	Confirm leaving of college by the faculty.	HOD	--
03	Get information on responsibility of the leaving faculty or new faculty in charge such as subject allotted, laboratory I/C, portfolios, etc.	HOD	Charge Handover / Takeover report
04	Verify the workload of existing staff, determine if any under load staff. Also get interest from the faculties for taking up the workload of the faculty.	HOD	--
05	Allocate the subject / responsibility to existing staff if available. If the subject cannot be taken by any of the existing faculties, start recruitment process.	Principal, Vice-Principal & HOD	--
06	Verify the percentage of syllabus covered such as lectures conducted vs plan, practical's conducted vs plan. Ensure availability of student attendance record, assignments completion, test records or any other data.	Concerned Faculty	--
07	Check teaching plan and practical plan for remaining syllabus completion and prepare new plan if necessary.	Concerned Faculty	--
08	Execute teaching – learning process and maintain record of all activities.	Concerned Faculty	--
09	On monthly basis, conduct review of % completion of syllabus and other responsibilities as per the plan.	HOD	--
10	Conduct Exit Interview of the faculty who is leaving institute.	Principal, Vice-Principal & HOD	--

Output	Completion of all the responsibilities
--------	--

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Availability of all lab. Materials as per dead stock register	Number	Number of materials available as per dead stock register	After staff resignation/ Portfolio handover	HOD	Charge Handover / Takeover report
Effectiveness of charge handover process	Number	Number of issues observed in charge handover process	After staff resignation/ Portfolio handover	HOD	Charge Handover / Takeover report

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ACA/PR/22	Mentor-Mentee System	
Rev.: 00 Date: 11-07-2022	Clause: 10.1	Page: 01 / 02

Process Input	Institute Academic Calendar, Department Event Calendar, Roll call list.
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Sr. No.	Activity	Owner	Stage Out put
01	Refer the Institute Academic Calendar & Department Event Calendar and finalization of mentors.	HOD, Department Mentor Coordinator	Notice & Minutes of Meeting
02	Departmental Mentor allocation - Receive Roll Call List - Allocate students to Mentor on the basis of Class - Update Parents and Students Mobile Numbers	HOD, Department Mentor Coordinator	Roll call list, List of Student allocation
03	Prepare Students' Meeting Activity Plan by Considering Institute Academic Calendar & Department Event Calendar	HOD, Department Mentor Coordinator	Students' Meeting Activity Plan
04	Reporting of Students at the beginning of each Semester -Data Entry in Mentor book of mobile number of Parents and Students	Mentor	Mentor book
05	Student's meeting conduction - Conduct all the activities as per the Students' Meeting Activity Plan - Maintain Attendance of Students' Meeting - Analyze the Absenteeism in Students meeting - Update Mentor book regularly - Observe attendance of all the students and Counsel the Students for improving Attendance in classes on regular basis - Take the Undertaking from Parents if the student having less Attendance, less marks or Misbehavior - Analyze each student thoroughly on the basis of Academic performance, Emotional ground, Family background etc. - Motivate the students for - Improving Academic performance - Participating in various competitions and events - Improving Technical skills - Improving overall personality - Help Student for Placement and Higher Education - Maintain the Record of pass out students in the form of Students Profile Book	Mentor	Mentor book, Undertaking Report
06	Maintain Department summary report of each Students Meeting in the Department.	Department Mentor Coordinator	Department Summary report of Students meetings

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ACA/PR/22	Mentor-Mentee System	
Rev.: 00 Date: 11-07-2022	Clause: 10.1	Page: 02 / 02

Process Output	List of Mentor & Students allocation, Mentor Activity Report, Defaulter list, Personal Details, Academic Details
----------------	--

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Execution of Mentor meeting	Plan Vs Actual	Plan vs actual of Mentor meeting	Mid-sem. and End-sem.	HOD, Department Mentor Coordinator	Mentor book
No. of issues raised Vs resolved	Number	Summary of issues	Semester	HOD, Department Mentor Coordinator	Mentor Book



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ACA/PR/23	Student Complaints and Appeals	
Rev.: 00 Date: 11-07-2022	Clause: 9.1.2.2	Page: 01 / 01

Process Input	College infrastructure, staff competencies, facilities provided to students, grievance committee policy
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Sr. No.	Activity	Owner	Stage Out put
01	Communicate with the students about the methodology to be adopted for handling of student's complaints / appeals.	HOD	Notice
02	Receive student complaints / Appeals in the department through faculties / through Mentor / through Grievance cell.	HOD, Mentor & Grievance cell I/C	--
03	Record the complaint / appeal. Acknowledge the complaint / appeal to the student.	HOD, Mentor & Grievance cell I/C	Student Complaints / Appeals Register/ mentor book
04	Ensure confidentiality of the complainants and appellants and objectivity of investigators.	HOD, Mentor & Grievance cell I/C	--
05	Discuss the complaint / appeal in the departmental meeting and perform initial assessment of the complaint / appeal.	HOD, Mentor & Grievance cell I/C	Student Complaints / Appeals Register/ mentor book
06	Investigate the complaint / appeal and decide correction, root cause and corrective action to be taken for resolving the complaint / appeal along with responsibility for actions and the target date for complaint / appeal closure.	HOD, Mentor & Grievance cell I/C	Student Complaints / Appeals Register/ mentor book
07	In case the action at the department level is not possible, communicate the same to the concerned authorities and discuss the same in the Principals Meeting to resolve it. Give feedback of action initiated to the concerned mentor / Student.	HOD, Mentor & Grievance cell I/C	Student Complaints / Appeals Register/ mentor book
08	Communicate the actions initiated on the complaints to the students in the next meeting and document the same.	HOD, Mentor & Grievance cell I/C	Student Complaints / Appeals Register/ mentor book
09	Track the correction / corrective actions for completion and close the complaint / appeal after action completion.	HOD, Mentor & Grievance cell I/C	Student Complaints / Appeals Register/ mentor book

Process Output	Effective resolution of student's complaints / appeals
-----------------------	--

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Actions identified and taken based on the student complaints or appeals	Numbers	Student complaints or appeals related action completion status	Monthly	HOD, Mentor & Grievance cell I/C	Student Complaints / Appeals Register/ mentor book



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ACA/PR/24	Control of Outsourced Faculties		
Rev.: 00 Date: 24-01-2022	Clause: 8.1.1, 8.4.1, 8.4.2	Page: 01 / 02	

Input	Teaching scheme, requirement of outsourced faculties as per University Syllabus, Academic calendar, Faculty Time Table, Workload Distribution.
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Sr. No.	Activity	Owner	Process Output
01	Requirement of Outsourced Faculties for various subjects as per syllabus and workload distribution requirement.	Principal, Vice-Principal, HOD	--
02	Finalization of the outsourced faculties. studying their resume, total experience, expertise for specific subjects and year of experience, to decide the remuneration to be finalized for the out sourced faculties.	Principal, Vice-Principal, HOD	--
03	Discussion with the outsourced faculty in interview, negotiation, finalization of remuneration for the year including the T.A.	Principal, Vice-Principal, HOD	--
04	Inclusion of the remuneration for the above in the financial budget of the year for the institute for the Academic Year.	Principal, Vice-Principal, HOD	--
05	Note of approval to be prepared for the tentative expenses for remuneration to be given to the outsourced faculties to get it approved from the Management.	Principal, Vice-Principal, HOD	Note of approval
06	Giving appointment letter to the outsourced faculties as per requirement.	Principal, Vice-Principal, HOD	Appointment Letter
07	Maintaining an attendance muster for above faculties for their days of teaching in the institute	HOD & Dept. Academic Coordinator	Attendance Muster
08	Once in a semester. Performance Monitoring of visiting faculty shall be done based on: 1. Punctuality & attendance to conduct the lecture 2. Interaction with students, will be monitored by HOD & dept. Academic Coordinator. Appropriate actions based on the rating shall be taken.	HOD & Dept. Academic Coordinator.	Outsourced Faculty Performance Monitoring report

Output	Control of Outsourced Faculties.
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ACA/PR/24	Control of Outsourced Faculties		
Rev.: 00 Date: 24-01-2022	Clause: 8.1.1, 8.4.1, 8.4.2	Page: 02 / 02	

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Regularity of Working	Working Hours	Cross checking by reviews from core faculties, attendance muster	Each Semester	HOD & Dept. Academic Coordinator.	Attendance Muster
Efficiency of sharing knowledge to students	Output given in class	Cross checking by reviews from core faculties, students.	Each Semester	HOD & Dept. Academic Coordinator.	Student Feedback Form

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ACA/PR/25	Holistic and Spiritual Process		
Rev.: 00 Date: 11-07-2022	Clause: 8.5.1.1, 9.1.1	Page: 01 / 01	

Process Input	Time Table, Meditation Hall, Mediation Expert
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Sr. No.	Activity	Owner	Stage Out put
01	Daily routine of institute starts with prayer and national anthem for all students and staff.	All faculties	--
02	Mediation slot availability in daily schedule.	HOD, Time Table Incharge	Time Table with mediation Slot
03	Give schedule to meditation expert.	Mediation Coordinator	Time table
04	Monitoring of mediation activity.	All Staff	Attendance record

Process Output	Alignment with spiritual approach of trust, Improved Attention, lower stress, Confidence development and self-realization
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Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Regularity of Mediation	Numbers	Participation of Faculties and Students	Daily	Mediation Coordinator	Attendance record

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ACA/PR/26	Add-on Courses		
Rev.: 00 Date: 11-07-2022	Clause: 8.1, 8.5.1.1, 8.6, 9.1.1	Page: 01 / 01	

Process Input	UoM curriculum, Elective subject choice, Market job requirement
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Sr. No.	Activity	Owner	Stage Out put
01	Identification of Add-on Course requirement through students' choice of Elective subject or market job skill requirement.	HoD, Concern coordinator	--
02	Design and development of contents and duration of the course.	HOD, Concern coordinator	Course contents
03	Enrollment of students to the course.	Concern coordinator	List of students
04	Execution & Evaluation of the course.	HOD, Concern coordinator	Result
05	Feedback analysis of the course.	Concern coordinator	--

Process Output	Skill set development of the students as per industry / market needs, Competency development
----------------	--

Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Timely conduction of course	Number	Plan Vs actual sessions of course	Each semester	Concern coordinator	Course calendar
Student attendance for course	Number	Number of students attending course	Each semester	Concern coordinator	Course calendar



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ACA/PR/27	Protection & Transparency of Learners data	
Rev.: 00 Date: 11-07-2022	Clause: 8.5.5	Page: 01 / 02

Process Input	Learners data: original documents, student personal information, admission data, scholarship data examination assessment data, CIE data, journals, projects, result sheets, Admission forms, Admitted students list, Student general register, library data, research data, patents, transfer certificates, final mark sheets, University degree certificates etc.
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Sr. No.	Activity	Owner	Stage Out put
A	Collection of Data		
1	Various types of learner data is collected at different stages as below- - Admission, eligibility - Teaching learning - Attendance - Examination - Assessments - Projects - Completion of UG courses	Principal, Vice-principal, Registrar, O.S., HOD, faculties, Mentors, Exam Dept., Librarian, Guides, System and technical support staff	Assurance of protection & transparency of learners' data
B	Protection, storage, access & retention of data		
1	All the data related to learner is protected as follows- - Admission data & original documents - O.S. - Scholarship data - O.S. - Library Data - Librarian - Teaching learning data - with respective departments under custody of HOD - Examination data - Exam Dept. - Student monitoring data - Mentors - Soft Data – System staff	Principal, Vice-principal, Registrar, O.S., HOD, faculties, Mentors, Exam Dept., Librarian, Guides, System and technical support staff	
2	All the data maintained in hard copies is safeguarded with respective authorities	Principal, Vice-principal, Registrar, O.S., HOD, faculties, Mentors, Exam Dept., Librarian, Guides, System and technical support staff	
3	The data maintained in softwares / E-Campus (ERP) is protected with passwords and limited access is given to all employees.	System staff	
4	E-Campus (ERP) is validated by system staff as a protection measure.		
5	For the learner data access, storage, retention is defined as documented information in all departments.	Principal, Vice-principal, Registrar, O.S., HOD, faculties, Mentors, Exam Dept., Librarian, Guides, System and technical support staff	
6	The access is given to the students through E-campus for required modules.	System staff	



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ACA/PR/27	Protection & Transparency of Learners data	
Rev.: 00 Date: 11-07-2022	Clause: 8.5.5	Page: 02 / 02

Sr. No.	Activity	Owner	Stage Out put
C	Sharing of Data		
1	Shared only with Government authorities for the admission process.	Principal/Office Staff	Assurance of protection & transparency of learners' data
2	Shared only with University for eligibility and examinations.	Principal/Office Staff	
3	Shared required data with only HOD's, faculties & examination departments for teaching learning and examination process.	Principal, Vice-principal, Registrar, O.S., HOD, faculties, Mentors, Exam Dept., Librarian, Guides, System and technical support staff	
4	The data is updated and corrected by respective staff as and when needed with due confirmation from learners.	Principal, Vice-principal, Registrar, O.S., HOD, faculties, Mentors, Exam Dept., Librarian, Guides, System and technical support staff	
D	Transparency of data		
1	Total transparency is ensured with respective staff by maintaining relevant documented information	Principal, Vice-principal, Registrar, O.S., HOD, faculties, Mentors, Exam Dept., Librarian, Guides, System and technical support staff	Assurance of protection & transparency of learners' data
2	Data transparency is maintained for all the relevant learner's data after explicit consent from learners is obtained.	Principal, Vice-principal, Registrar, O.S., HOD, faculties, Mentors, Exam Dept., Librarian, Guides, System and technical support staff	

Process Output	Assurance of protection & transparency of learners' data
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Process Monitoring & Measurement					
Parameter	Indicator	Measurement Methodology	Frequency of Monitoring	Responsibility	Document Retention
Protection of learner data	Number	Number of incidences of loss of learner data & complaints from learners	Yearly	Respective Head	Corrective Action Record

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