

(Autonomous) ERODE- 638 052



Department of Mechanical Engineering

NEC/MECH/PAC-03/2023-24

DATE: 29.01.2024

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Originator:	Circulated to:
Chairman- PAC	Members of PAC & All faculty members

Sub: Programme Assessment Committee (PAC) meeting:

The PAC meeting is scheduled on 31.01.2024 to discuss the agenda listed below. In this connection, all the PAC members are requested to attend the meeting.

Date & Time of Meeting: 31.01.2024 (12.30PM)

Venue: Meeting Hall

	AGENDA
Disseminat	ion of vision and mission of the department
VISION	• To be recognised as a centre of excellence in the field of Mechanical Engineering and to produce competent engineers with multi-disciplinary exposure to meet the changing needs of the society.
MISSION	 To enrich technical knowledge and skills by imparting quality education with ethics and social responsibility. To empower the students in the thrust areas of Mechanical, Allied Engineering and Entrepreneurship in the continually changing global market. To provide a conducive learning environment for improving continually to cater the needs of the society.
Item 3.01	Review of the previous PAC meeting minutes
Item 3.02	Review of result and attainment analysis of 3 rd year, identification of slow learners and corrective actions, advanced learners and activities for the advanced learners.
Item 3.03	Class Committee Meeting (CCM) reports and action taken.
Item 3.04	Department activity plan for the academic year 2023 – 2024.
Item 3.05	Online courses for students (NPTEL, etc)
Item 3.06	IRS course details, placement status of IV years and training plan for III years.
Item 3.07	Discussion on R22 curriculum and BoS Sub-committee members of V & VI semester.
Item 3.08	Any other matter

To
All members of PAC,

✓ All Faculty members,

✓ File (O/o Head)

CHAIRMAN - PAC
HEAD OF THE DEPARTMENT
DEPARTMENT OF MECHANICAL ENGINEERING,
NANDHA ENGINEERING COLLEGE
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Department of Mechanical Engineering

MINUTES OF THE PROGRAMME ASSESSMENT COMMITTEE MEETING (PAC)

Name of the Body	PRO	PROGRAMME ASSESSMENT COMMITTEE				
Department	Med	chanical Engineering				
Meeting No.	03	2023-2024				
Date & Time	31.0	1.2024 & 12.30PM				
Venue	Mee	Meeting Hall				

Disseminate	ed the vision and mission of the department
VISION	• To be recognised as a centre of excellence in the field of Mechanical Engineering and to produce competent engineers with multi-disciplinary exposure to meet the changing needs of the society.
MISSION	 To enrich technical knowledge and skills by imparting quality education with ethics and social responsibility. To empower the students in the thrust areas of Mechanical, Allied Engineering and Entrepreneurship in the continually changing global market. To provide a conducive learning environment for improving continually to cater the needs of the society.

HEAD OF THE DEPARTMENT DEPARTMENT OF MECHANICAL ENGINEERING, NANDHA ENGINEERING COLLEGE ERODE - 638 052.

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The proceedings of PAC started and the minutes of the meeting are recorded as follows:

The Chairman of the PAC Dr. M. Easwaramoorthi, HoD - Mech, welcomed the members followed by the introduction of members.

Item 3.01	Review of the pre-	vious PAC	meeting 1	ninutes						
*	MoM of PAC held focus on improvide learning process, in the syllabus contents	ng CO and nvolving st nts.	udents in	co-curric	y taking ular activ	suitable r ities / indu	emedial stry int	eraction	ures in n and in	teachir nprovir
Item 3.02	Review of result a actions, advanced	nd attainm learners and	ent analy d activitie	sis of 3 rd y	ear, iden	tification (of slow	learner	s and c	orrecti
*	Dr. MEM presented sem., list of slow lea	the 2023-2 rners and fa	4 ODD se st learners	mesters C	AT-1&2 r	esult analys	easures			
	CAT-1 result and	attainmen	ıt analysi	s III Yea	r (5 th Sen	nester) 20	23 - 20	24 (Od	ld Seme	ester)
	Course Code	Present	Absent	Pass	Fail	Pass %	CO1	CO2	соз	Cours
	17MEC13	102	01	82	20	80	2	2	2	2.1
	17MEC14	102	01	86	16	84	2	2	2	2.1
	17MEC15	101	02	76	25	75	2	2	1	2.1
	17MEC16	100	03	82	20	80	2	2	2	2.1
	 17MEC15 Dynar Members deliber attainment such a improving the syl CAT-2 result and 	rated the re as remedial labus conter	asons for classes, ir	CO not a	attainment tudents in	and actio	lar activ	ities / i	ndustry	visit an
Discussion	 Members deliber attainment such a 	rated the re as remedial labus conter	asons for classes, ir	CO not a	attainment tudents in	and actio	lar activ	024 (O	dd Sem	ester) Course
Discussion	Members deliber attainment such a improving the syl CAT-2 result and	rated the re as remedial labus conter l attainme	asons for classes, ir nts.	CO not any olving state of the control of the contr	attainment tudents in ar (5 th Se	and actio	023 - 20 CO3	024 (O	dd Sem	ester) Course Target
Discussion	Members deliber attainment such a improving the syl CAT-2 result and Course Code	rated the reas remedial labus content attainme Present	asons for classes, in its. nt analys Absent	CO not any oliving state of the control of the cont	attainment tudents in ar (5 th Se Fail	mester) 2 Pass %	023 - 20 CO3	024 (O CO4	dd Sem	ester) Course Target 2.1
Discussion	Members deliber attainment such a improving the syl CAT-2 result and Course Code 17MEC13	rated the reas remedial labus content lattainme Present	asons for classes, in its. nt analys Absent	CO not a nvolving state of the control of the contr	attainment tudents in ar (5 th Se	mester) 2 Pass % 96 94	023 - 20 CO3 2.1 2.2	024 (O CO4 3 2.2	dd Sem CO5 3 2.2	ester) Cours Targe 2.1 2.1
Discussion	Members deliber attainment such a improving the syl CAT-2 result and Course Code 17MEC13 17MEC14 17MEC15 17MEC16	rated the reas remedial labus content lattainme Present 97 103 101 101	asons for classes, in ts. nt analys Absent 6 0 2 2	CO not a nvolving state of the control of the contr	attainment tudents in ar (5 th Se Fail 4 6 10	mester) 2 Pass % 96 94 90	023 - 20 CO3 2.1 2.2	024 (O CO4 3 2.2 3	dd Sem CO5 3 2.2 3	ester) Course Target 2.1 2.1
	Members deliber attainment such a improving the syl CAT-2 result and Course Code 17MEC13 17MEC14 17MEC15	rated the reas remedial labus content lattainme Present 97 103 101 101 ed the CA ners stiffed as a sto improve ver learners ers	asons for classes, in this. nt analys Absent 6 0 2 2 T-2 pass slow learner the acade in the response to the acade in the	Pass 93 97 91 92 % and a	reviewed rmance. Frise files.	mester) 2 Pass % 96 94 90 91 t of all C	CO3 2.1 2.2 1 2.1 CO's ex	O24 (O CO4 3 2.2 3 3 cept C	dd Sem CO5 3 2.2 3 2.1 O3 for ask to a p all doc	ester) Course 2.1 2.1 2.1 course conducteuments



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Item 3.03	Class Committee Meeting (CCM) reports and action taken.						
Discussion	Dr. MEM sh	ared the Class (Committee Mee	ting (CCM) feed	back and Action	taken report (ATR),
Resolution				mittee Meeting (
Item 3.04	Department	activity plan f	for the academ	ic year 2023 – 2	2024.		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Association of 2024 (ODD S	coordinator Mr. Semester)	M. Sengottaiya	n presented the a	academic activitie	es as per even	t calendar 2023
			+			SOME	
	Month	ISTE(2)	IEI(3)	SAE(3)	International (1)	National (2)	State level
	JAN	Academic Seminar (Week 1)				Academic Seminar (Week 4)	(0)
Discussion	FEB		Guest Lecture (week 1)			(Week 4)	Industrial Seminar (Week4)
	MAR			Industrial Seminar (Week1)	International Conference /Seminar (Week 2)	Ter By	(Weekt)
	APR			- X	(WOCK 2)	a l'	WORKSHO P
	MAY			Exa	am		(Week) 4
	Count	2	3	3	1	2	6
Resolution	Resolved to	record.					
Item 3.05	Online cours	es for students	(NPTEL, etc.)			
			NPTEL	Course 2023-2	24 (ODD)		
	Year	Registered	Completed				
Discussion	IV	1	1				
2100000001		3	3				
	III	73	9				
		43	3				
Resolution	Resolved to r	ecord.					
Item 3.06	IRS course details, placement status of IV years and training plan for III years.						
Discussion	Placement co CORE: No. of placed IT: No. of placed	-ordinators pro student – 24 / student – 33/5	esented the Fir 25 54	al Year placem	nent status	jouis.	
	I, II and III ye	ear IRS subjec					
3 -	Description	I YEAR ACA SCHEDU		EAR ACADEMI SCHEDULE	III YEAR	ACADEMIC	SCHEDULE



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							PLACEMENT
	IRS Cours	ses 1	22EYA01 - Professional Communication I	22MAN07 - Soft / Analytical Skills IV (Verbal)	17EYZ0 Employab Enhanceme Analytical (Verba	oility nt and Skills	IRS1 & IRS 2 IRS 1 (NDT&E) IRS 2 (RSE)
	IRS Cours	ses 2	22MAN02 - Soft / Analytical Skills I	22MAN08 - Soft / Analytical Skills IV (Aptitude)	17EYZ04 - Employability Enhancement and Analytical Skills (Aptitude)		Electric Vehicle Technology Training
	IRS Cours	es 3	NA	NA	17CSX31- P Solving a Programm	and	Aptitude
	IRS Cours	es 4	NA	NA	NA		<u>Internship</u>
Resolution	Resolve	d to rec	cord.				
Item 3.07	Discussio	n on R	22 (V & VI semeste	r) Syllabus Sub-committ	ee members.		
	BoS Coor	rdinato	r presented the syllab	ous Sub-committee mem	bers of V &	VI seme	ster.
	S. No.		Name of th	1e course	Semester		ne of syllabus b-committee member
	1.	Auto Testi	Andrew and the control of the state of the s	omponents, Design &	Elective	Dr. Ashokkumar B	
	2.	Conv	entional and Futuris	tic Vehicle Technology	Elective	Dr. As	hokkumar B
	3.	10000 10000	wable Powered Off I sion Control Techno	Highway Vehicles and logy	Elective	Dr. As	hokkumar B
	4.	Hybr	id and Electric Vehic	cle Technology	Elective	Dr. As	hokkumar B
	5.	Ther Cells	mal Management of	Batteries and Fuel	Elective	Dr. As	hokkumar B
	6.		es of Electric Vehicle		Minor	Dr. Mı	ıthukumar M
	7.	Elect Syste	ric Vehicle Architect m	ture and Control	Minor	Dr. Mı	ıthukumar M
	8.	Mate	rials for Electric Veh	nicles	Minor	Dr. Mı	ıthukumar M
	9.	Powe	ertrain Design for Ele	ectric Vehicles	Minor	Dr. Mı	ıthukumar M
	10.		ry Management		Minor	Dr. Mı	ıthukumar M
	11.		d IoT for Electric Ve	ehicles	Minor	Dr. Mu	ıthukumar M
	12.		nomous Vehicles		Minor	Dr. Mu	ıthukumar M
	13.		Cell Technology & S	lafety Regulations	Minor		thukumar M
	14.		/CAM		Elective		gibalan S
	15.	Embe	edded Systems and P	rogramming	Elective	Dr. Ma	gibalan S



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	4.5	71. 7	Elective	M. F
	45.	Value Engineering	D. H. Wester, Constitute, Decape	Mr. Eswaran S
	46.	Ergonomics in Design	Elective	Mr. Eswaran S
	47.	Non-traditional Machining Processes	Elective	Mr. Eswaran S
	48.	Process Planning and Cost Estimation	Elective	Mr. Eswaran S
	49.	Metrology and Measurements	V	Mr. Muruganantham S
	50.	Metrology and Measurements Laboratory	V	Mr. Muruganantham S
	51.	Lean Manufacturing	Elective	Mr. Muruganantham S
	52.	Power Plant Engineering	Elective	Mr. Muruganantham S
	53.	Design for Manufacturing	Elective	Mr. Muruganantham S
-	54.	Sensors and Instrumentation	Elective	Mr. Mohamed Ajmal Mahasin M
	55.	Electrical Drives and Actuators	Elective	Mr. Mohamed Ajmal Mahasin M
	56.	Design Concepts in Engineering	Elective	Mr. Mohamed Ajmal Mahasin M
	57.	New Product Development	Elective	Mr. Mohamed Ajmal Mahasin M
	58.	Advanced Statistics and Data Analytics	Elective	Mr. Mohamed Ajmal Mahasin M
	59.	Material Handling and solid processing Equipment	Elective	Mr. Ravichandran D
	60.	Rotating Machinery Design	Elective	Mr. Ravichandran D
	61.	Measurements and Controls	Elective	Mr. Ravichandran D
	62.	Casting and Welding Processes	Elective	Mr. Ravichandran D
Ī	63.	Gas Dynamics and Jet Propulsion	Elective	Mr. Ravichandran D
	64.	Machine Design	V	Mr. Velliyangiri B
	65.	Vehicle Health Monitoring, Maintenance and Safety	Elective	Mr. Velliyangiri B
	66.	Failure Analysis and NDT Techniques	Elective	Mr. Velliyangiri B
-	67.	Industrial safety	Elective	Mr. Velliyangiri B
	68.	Design of Transmission System	Elective	Mr. Velliyangiri B
	69.	Smart Mobility and Intelligent Vehicles	Elective	Mr. Arjun Raj R
	70.	Carbon Footprint estimation and reduction techniques	Elective	Mr. Arjun Raj R



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16.	Haptics and Immersive Technologies	Elective	Dr. Magibalan S
17.	Power Generation Equipment Design	Elective	Dr. Magibalan S
18.	Precision Manufacturing	Elective	Dr. Magibalan S
19.	Digital Manufacturing and IoT	Elective	Dr. Senninagiri N
20.	Modern Robotics	Elective	Dr. Senninagiri N
21.	Green Manufacturing Design and Practices	Elective	Dr. Senninagiri N
22.	Environment Sustainability and Impact Assessment	Elective	Dr. Senninagiri N
23.	Green Supply Chain Management	Elective	Dr. Senninagiri N
24.	Drone Technologies	Elective	Dr. Manikandan M
25.	Computational Solid Mechanics	Elective	Dr. Manikandan M
26.	Computational Bio-Mechanics	Elective	Dr. Manikandan M
27.	CAD and CAE	Elective	Dr. Manikandan M
28.	Turbo Machines	Elective	Dr. Manikandan M
29.	Design For X	Elective	Mr. Loganathan V N
30.	Industrial Layout Design and Safety	Elective	Mr. Loganathan V N
31.	Equipment for Pollution Control	Elective	Mr. Loganathan V N
32.	Composite Materials	Elective	Mr. Loganathan V N
33.	Tool Design	Elective	Mr. Loganathan V N
34.	Additive Manufacturing	Elective	Mr. Shanmugam M
35.	Energy Saving Machinery and Components	Elective	Mr. Shanmugam M
36.	Energy Conservation in Industries	Elective	Mr. Shanmugam M
37.	Energy Storage Devices	Elective	Mr. Shanmugam M
38.	Renewable Energy Technologies	Elective	Mr. Shanmugam M
39.	Product Life Cycle Management	Elective	Mr. Sengottaiyan M
40.	Robotics	Elective	Mr. Sengottaiyan M
41.	Design of Pressure Vessels	Elective	Mr. Sengottaiyan M
42.	Bioenergy Conversion Technologies	Elective	Mr. Sengottaiyan M
43.	Surface Engineering	Elective	Mr. Sengottaiyan M
44.	Hydraulics and Pneumatics	V	Mr. Eswaran S



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	200			T Total
	71.	Energy Efficient Buildings	Elective	Mr. Arjun Raj R
	72.	Theory on Computation and Visualization	Elective	Mr. Arjun Raj R
	73.	Machine Learning for Intelligent Systems	Elective	Mr. Arjun Raj R
	74.	CAE and CFD Approach in Future Mobility	Elective	Mr. Balakrishnan S
	75.	Computational Fluid Dynamics and Heat transfer	Elective	Mr. Balakrishnan S
	76.	Advanced Internal Combustion Engineering	Elective	Mr. Balakrishnan S
	77.	Automobile Engineering	Elective	Mr. Balakrishnan S
	78.	Advanced Vehicle Engineering	Elective	Mr. Balakrishnan S
	79.	Finite Element Analysis	. VI	Mr. Venkateshan T
	80.	Mechatronics & IOT	VI	Mr. Venkateshan T
	81.	Computer Aided Analysis Laboratory	VI	Mr. Venkateshan T
	82.	Mechatronics & IOT Laboratory	VI	Mr. Venkateshan T
	83.	Design Codes and Standards	Elective	Mr. Venkateshan T
	84.	Heat and Mass Transfer	V	Mr. Rajkumar R
	85.	Heat and Mass Transfer Laboratory	V	Mr. Rajkumar R
	86.	Thermal and Fired Equipment design	Elective	Mr. Rajkumar R
	87.	Refrigeration and Air Conditioning	Elective	Mr. Rajkumar R
	88.	Thermal Power Engineering	Elective	Mr. Rajkumar R
5 g	informed	ibers of the syllabus sub-committee are request d above by referring leading institutions, Univer- to incorporate the suggestions provided by the ex- presentation in the BoS for approval.	ersities, and I	yllabus for the courses
Resolution		l to record.		5
Item 3.08	Any other	matter		

Date: 27-02-2024

CHAIRMAN – PAC
HEAD OF THE DEPARTMENT
DEPARTMENT OF MECHANICAL ENGINEERING,
NANDHA ENGINEERING COLLEGE
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