

Department of Mechanical Engineering

Ref:NEC-MECH_(Circular No. 02)/Autonomous-BoS [12]/ 2023-24

Date: 28/05/2024

То

The Members of the Board of Studies.

Dear Members,

Sub: Invite for 12th Board of Studies meeting reg.

We take pleasure in inviting you to the 12th Board of Studies meeting scheduled on 01-06-2024 at 10.00 am. Your expertise and insights are vital to the academic and curricular decisions of our institution. We would like to extend this invitation to you and eagerly anticipate your participation in the BoS meeting. The details of the meeting and agenda are provided below for your kind information.

Meeting Details:

Meeting No.	Date of meeting	Time	Meeting Venue, Address				
12	01-06-2024	10.00 am	Block -7 Meeting Hall				

r tosa	Agenda					
12.1	Welcome address and Introduction of members.					
12.2	Review of the 11th BoS meeting minutes and ATR	1				
12.3	Review of the PAC and DAB meeting minutes	1.1				
12.4	(a) Vision and Mission.					
	✓ Institute					
	✓ Department					
	(b) PEOs and PSOs.					
12.5	Approval of syllabi :5 th and 6 th semesters					
	UG-B.E., Mechanical Engineering – Regulations R22					
	Semester -5					
	Course-1: Machine Design					
	Course-2: Metrology and Measurements					
	Course-3: Heat and Mass Transfer					
	Course-4: Hydraulics and Pneumatics					
	Course-5: Heat and Mass Transfer Laboratory					
	Course-6: Metrology and Measurements Laboratory					
	Semester -6					
	Course-1: Finite Element Analysis					
	Course-2: Mechatronics & IOT					
	Course-3: Computer Aided Analysis Laboratory					
	Course-4: Mechatronics & IOT Laboratory					

BoS_Form-2



NANDHA

Engineering College (Autonomous), Erode -638 052

12.6	Approval of Verticals (R22) and Minor for PEC & OEC and minor degree courses.
	Minor degree
	Minor 1: Electric Vehicle Technologies
12.7	Approval/ Ratification of One credit and NPTEL courses
12.8	Approval/ Ratification of CVAC courses
12.9	Ratification of PSE courses in R17 (UG)
	✓ 17MEX42 Internship for providing credits as per Regulation.
	✓ 17MEX43 Product life cycle management
12.10	Ratification of PEC courses in R22 (UG)
	✓ 22MEX03 Non-traditional Machining Processes
	✓ 22MEX04 Design Concepts in Engineering
12.11	Ratification of PEC courses in R22 (PG)
	✓ 22EDX28 Fuel cell Technology
	✓ 22EDX29 Energy Resources
12.12	Discussion on result and attainment of the CO - PO / PSO (Target fixed and attained) for
	the ODD semester of the academic year 2023-24 (I, II, III & IV year).
12.13	Approval of Panel of Examiners (UG & PG)
12.14	Review of best practices of the department.
12.15	Department Achievement for the academic year 2023 – 2024.
	✓ Student Achievement
	✓ Faculty Achievement
12.16	

Sincerely,

Dr. M. Easwaramoorthi Chairman BoS/HoD Department of Mechanical Engineering, Nandha Engineering College (Autonomous), Erode-638 052



MINUTES OF THE 12th BOARD OF STUDIES MEETING

Board of Studies
Mechanical Engineering
12
01.06.2024, 10.00 am
Offline Mode (Block 7 Meeting Hall)



NANDHA ENGINEERING COLLEGE, Erode -638 052

(An Autonomous Institution, Affiliated to Anna University Chennai and Approved by AICTE New Delhi)

Minutes of 12th Board of Studies Meeting (BoS) held on 01.06.2024

The 12th Board of Studies (BoS) meeting was held on 01.06.2024 by 10.00 am at block 7 Meeting Hall, Nandha Engineering College. The members attended the meeting are given in Annexure I.

Dr. M. Easwaramoorthi, Chairman (BoS) and Professor & HoD, Mechanical Engineering chaired the meeting, welcomed all the members to the 12th BoS meeting followed by introduction of the members. After the brief introduction, the agenda items listed below were taken up for discussion and resolutions were passed.

12.1	Welcome address and Introduction of members.
	Review of the 11 th BoS meeting minutes and ATR
12.3 12.4	Review of the PAC and DAB meeting minutes
12.4	(a) Vision and Mission.
	✓ Institute
	✓ Department
10.5	(b) PEOs and PSOs.
12.5	Approval of syllabi :5 th and 6 th semesters
	UG-B.E., Mechanical Engineering – Regulations R22
	Semester -5
	Course-1: Machine Design
	Course-2: Metrology and Measurements
	Course-3: Heat and Mass Transfer
	Course-4: Hydraulics and Pneumatics
	Course-5: Heat and Mass Transfer Laboratory
	Course-6: Metrology and Measurements Laboratory
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12.8	Approval/ Ratification of CVAC courses
12.9	Ratification of PSE courses in R17 (UG)
	✓ 17MEX42 Internship for providing credits as per Regulation.
	✓ 17MEX43 Product life cycle management
12.10	Ratification of PEC courses in R22 (UG)
	✓ 22MEX03 Non-traditional Machining Processes
	✓ 22MEX04 Design Concepts in Engineering
12.11	Ratification of PEC courses in R22 (PG)
	✓ 22EDX28 Fuel cell Technology
	✓ 22EDX29 Energy Resources
2.12	Discussion on result and attainment of the CO - PO / PSO (Target fixed and attained) for
	the ODD semester of the academic year 2023-24 (I, II, III & IV year).
2.13	✓ Approval of Panel of Examiners (UG & PG)
2.14	✓ Review of best practices of the department.
2.15	Department Achievement for the academic year 2023 – 2024.
	✓ Student Achievement
	✓ Faculty Achievement
2.16	Any other matters



The proceedings of BoS started. The discussions and resolutions are recorded as follows:

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	Welcome address and Introduction of members.							
Item 12.01	Dr. M. Easwaramoorthi, Chairman BoS introduced the members and welcomed all							
	followed by a brief note on autonomous functioning.							
Item- 12.02	Review and approval of the 11 th BoS meeting minutes and ATR							
	The salient decisions taken in the 11 th BoS meeting and action taken on the following							
	point were presented.							
Discussion	✓ One copyright applied for Lab manuals.							
	The members have appreciated the efforts taken to implement the suggestions.							
Resolution	Resolved to approve the Action Taken Report of 11 th BoS meeting.							
Item - 12.03								
nem - 12.05	Review of the PAC and DAB meeting minutes							
	The chairman BoS explained the frequency of PAC & DAB meetings and presented							
	the salient points of the meetings held on the following dates.							
	✓ PAC meeting-1 held on 24-7-2023							
Discussion	✓ PAC meeting-2 held on 27-9-2023							
	✓ PAC meeting-3 held on 31-1-2024							
	✓ PAC meeting-4 held on 17-4-2024							
	✓ DAB meeting-1 held on 29-11-2023							
	✓ DAB meeting-2 held on 23-4-2024							
Resolution	All members have noted the MoM of PAC and DAB meeting. Resolved to record the							
	proceeding.							
	(a) Vision and Mission.							
Item- 12.04	• Institute							
	• Department							
D ! .	(b) PEOs and PSOs.							
Discussion	Dr. MEM presented the Institute and department (UG &PG) Vision, Mission							
	statements followed by PEOs and PSOs (UG & PG).							
	VISION							
	• To be an Institute of excellence providing quality Engineering, Technology							
	and Management education to meet the ever changing needs of the society.							
	MISSION							
	• To provide quality education to produce ethical and competent professionals with							
	social Responsibility							
	• To excel in the thrust areas of Engineering, Technology and Entrepreneurship by							
	solving real- world problems.							
	• To create a learner centric environment and improve continually to meet the							
	changing global needs.							
	VISION (UG & PG)							
	• 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 (UG & PG)							
	• 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 immension of the second second							
	 To provide a conducive learning environment for improving continually to cater the needs of the society. 							
	and noods of the society.							



	PROGRAMME EDUCATIONAL OBJECTIVES (PEO) -(UG & PG)						
4.4	PEO1: Core Competency: Graduates will have technical knowledge, skills an						
	analytical ability to design, develop and test Mechanical or allied Engineerin						
	systems using modern tools.						
States - Chinese	PEO2: Research, Innovation and Entrepreneurship: Graduates will have to take up real life and/or research related problems and to provide inno						
	solutions through comprehensive analysis and designing for a successful caree						
	research or entrepreneurship.						
	PEO3: Ethics, Human values and Life-long learning: The graduates will have						
	ability to develop lifelong learning attitudes, ethics and values for a successfi						
	professional career.						
	PROGRAMME SPECIFIC OUTCOMES (PSO) - UG						
	PSO1: Identify, formulate and analyze the problems of Mechanical, Allie						
	Engineering systems and product development.						
	PSO2: Apply appropriate computer aided engineering tools for modeling						
	simulation, analysis, and manufacturing techniques to solve engineering problems.						
	PROGRAMME SPECIFIC OUTCOMES (PSO) - PG						
	PSO1: An ability to identify, comprehend, formulate, design and analyse real lif						
	problems and develop Mechanical or allied Engineerin						
	systems/products/processes.						
	PSO2: An ability to implement appropriate design techniques, computer aided						
	engineering tools for modeling, simulation and analysis.						
Resolution	Resolved to record.						
	Approval of syllabi :5 th and 6 th semesters						
	UG- B.E., Mechanical Engineering – Regulations R22						
	Semester -5						
	Course-1: Machine Design						
	Course-2: Metrology and Measurements						
	Course-3: Heat and Mass Transfer						
Item	Course-4: Hydraulics and Pneumatics						
12.05	Course-5: Heat and Mass Transfer Laboratory						
	Course-6: Metrology and Measurements Laboratory						
	Semester -6						
	Course-1: Finite Element Analysis						
	Course-2: Mechatronics & IOT						
	Course-3: Computer Aided Analysis Laboratory						
	Course-4: Mechatronics & IOT Laboratory						
	BoS Chairman presented R22 curriculum and 5 th & 6 th semester proposed courses.						
	Semester -5						
	<u>Course-1: Machine Design</u> - No Comments						
	Course-2: Metrology and Measurements						
	✓ Dr. Vijay suggested to						
	 Modify the Course Outcome (CO5) 						
Discussion	 Include non contact measuring equipments in unit 5 						
	Ise videos and animations to teach advanced teacherisment						
	 Use videos and animations to teach advanced techniques Dr. Arul NUT suggested to add Noise and Vibration measurement in the 						
	✓ Dr. Arul NIT suggested to add Noise and Vibration measurement in unit V (add measurement system using Plusteeth)						
	(add measurement system using Bluetooth) ✓ Mr. Pradeep (OLA) suggested to move Geometrical Dimensioning &						
	with Tradeep (OLA) suggested to move Geometrical Dimensioning &						
	Tolerance content from unit IV to unit I.						

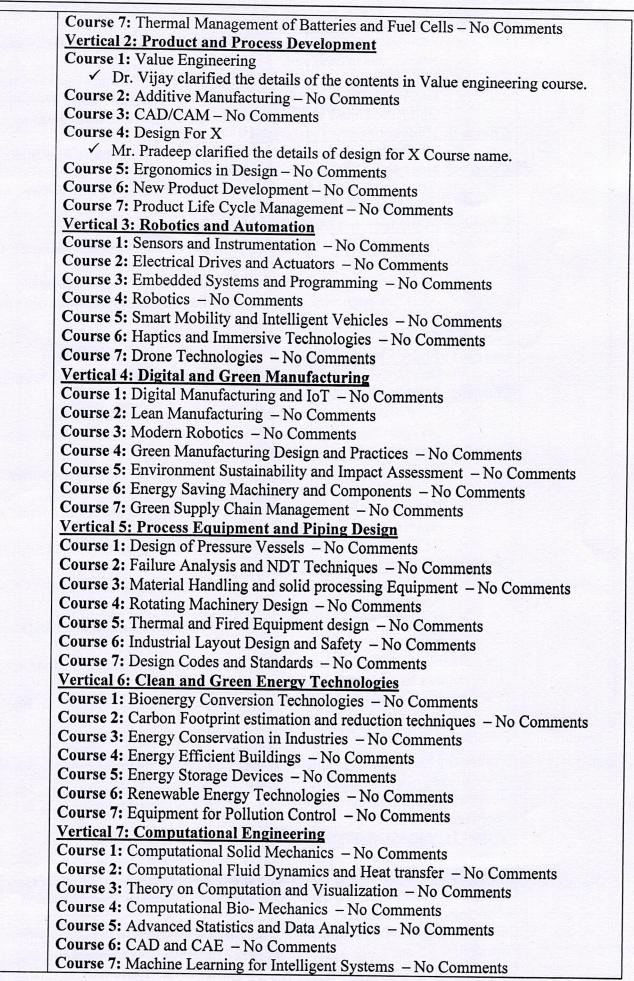


	Course-3: Heat and Mass Transfer							
	✓ Dr.Vijay and Mr. Pradeep suggested to add industry related examples a							
	simulations in each unit.							
	 Mr. Pradeep suggested to include Hydrogen diffusion at appropriate unit. 							
	 Dr. Arul NIT suggested to move contents related to Heat Exchangers from 							
	Unit III to Unit V (having contents related to mass transfer only)							
	Course-4: Hydraulics and Pneumatics							
	✓ Mr. Pradeep suggested to include compressors and types in unit IV.							
12.00	Course-5: Heat and Mass Transfer Laboratory							
	✓ Dr. Arul NIT suggested have computers in laboratory to sho							
	simulations/do experiments.							
	Course-6: Metrology and Measurements Laboratory							
	\checkmark Dr Arul and Dr Vijay suggested have commuter in 1.1							
	✓ Dr. Arul and Dr.Vijay suggested have computers in laboratory to sho							
	simulations/do experiments.							
	✓ Mr. Pradeep suggested to include experiment using anemometer.							
	✓ Dr.Vijay suggested to specify use the name of applications used in profi							
	projector experiment (6 th).							
	<u>Semester -6</u>							
	Course-1: Finite Element Analysis							
	 Dr.Vijay suggested to modify the contents in the introduction section. 							
	Course-2: Mechatronics & IOT							
	✓ Mr. Pradeep suggested to include Control modules in unit V.							
	✓ Dr.Vijay suggested to include a topic on IoT sensors for climate control.							
	Course-3: Computer Aided Analysis Laboratory							
	✓ Mr. Pradeep and Dr.Vijay suggested to add Topology optimization							
	L- bracket experiments.							
	✓ Dr.Vijay suggested to merge fin experiment (Thermal) and contact analys							
	experiment.							
	 Dr.Vijay suggested to add experiment related to coupled-field analysis. 							
	Course-4: Mechatronics & IOT Laboratory							
	V Dr. Vijav strassed to swap the 6th and oth							
	✓ Dr. Vijay stressed to swap the 6^{th} and 9^{th} experiments with 11^{th} and 12							
	experiments.							
	✓ Dr. Vijay suggested to remove the experiment named due repetition in th							
	previous experiment.							
	• Members advised to maintain the total numbers of experiments in laborator							
	courses as 10 (uniform manner).							
	• Members suggested see the possibility of changing contact (lecture) hour							
	unit-wise based on the requirements.							
Resolution	Resolved to approve the abances many 11 11 1							
Resolution	Resolved to approve the changes suggested by the members.							
Item 12.06	Approval of Verticals (R22) and Minor for PEC & OEC and minor degree courses.							
	Minor degree Minor 1: Electric Vehicle Technologies							
	Dr.MEM presented the curriculum list Verticals (R22) and Minor for PEC & OEC and							
	minor degree courses.							
	Vertical 1: Modern Mobility Systems							
	Course 1: Automotive Materials Components Design 0 That is a second							
	Course 1: Automotive Materials, Components, Design & Testing – No Comments							
Discussion	Course 2: Conventional and Futuristic Vehicle Technology – No Comments							
	Course 3: Renewable Powered Off Highway Vehicles and Emission Control							
	lechnology – No Comments							
	Course 4: Vehicle Health Monitoring, Maintenance and Safety - No Comments							
	Course 5: CAE and CFD Approach in Future Mobility – No Comments							



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	Vertical 8: Diversified Courses Group 1								
	Course 1: Automobile Engineering – No Comments								
	Course 2: Measurements and Controls – No Comments								
	Course 3: Design Concepts in Engineering – No Comments								
	Course 4: Composite Materials and Mechanics – No Comments								
	Course 5: Electrical Drives and Control – No Comments								
	Course 6: Power Plant Engineering – No Comments								
	Course 7: Refrigeration and Air Conditioning – No Comments								
	Vertical 9: Diversified Courses Group 2								
	Course 1: Turbo Machines – No Comments								
	Course 2: Non-traditional Machining Processes – No Comments								
	Course 3: Industrial safety – No Comments								
	Course 4: Design of Transmission System – No Comments								
	Course 5: Thermal Power Engineering – No Comments								
	Course 6: Design for Manufacturing – No Comments								
	Course 7: Power Generation Equipment Design – No Comments								
	Vertical 10: Diversified Courses Group 3								
	Course 1: Advanced Vehicle Engineering – No Comments								
	Course 2: Advanced Internal Combustion Engineering – No Comments								
	Course 3: Casting and Welding Processes – No Comments								
	Course 4: Process Planning and Cost Estimation – No Comments								
	Course 5: Surface Engineering – No Comments								
	Course 6: Precision Manufacturing – No Comments								
	Course 7: Gas Dynamics and Jet Propulsion – No Comments								
	Minor degree :Electric Vehicle Technologies								
	Course 1 : Basics of Electric Vehicles – No Comments								
the second second	Course 2 : Electric Vehicle Architecture and Control System – No Comments								
	Course 3 : Materials for Electric Vehicles – No Comments								
	Course 4 : Powertrain Design for Electric Vehicles – No Comments								
	Course 5 : Battery Management – No Comments								
	Course 6 : AI and IoT for Electric Vehicles – No Comments								
	Course 7 : Autonomous Vehicles – No Comments								
Resolution	Course 8 : Fuel Cell Technology & Safety Regulations – No Comments Resolved include the recommendations.								
Item 12.07	Approval/ Ratification of One credit and NPTEL courses								
	Dr.MEM presented the one credit course syllabus								
	• 22MEI01 – Geometric Dimensioning & Tolerancing (GD&T) – No Comments								
	Dr.MEM presented the NPTEL courses								
	OCME014 - Principles of Industrial Engineering – No Comments								
	OCME018 - Wastewater Treatment and Recycling – No Comments								
	• OCME019 - Air Pollution and Control – No Comments								
D'	 OCME019 - An Tonution and Control - No Comments OCME020 - Problem solving through programming in C - No Comments 								
Discussion	• OCME021 - Solar Energy Engineering and Technology – No Comments								
	• OCME021 - Solar Energy Engineering and Technology – No Comments								
	 OCME023 - Industrial Wastewater Treatment – No Comments OCME024 Design Thinking A Discussion of the second se								
	• OCME024 - Design Thinking - A Primer – No Comments								
	• OCME025 - Inspection and Quality in Manufacturing – No Comments								
	• Dr. Vijay proposed to categorize the NPTEL (online) courses stream-wise and								
	prepare verticals like PEC & OEC.								
D	D 1 1								
Resolution	Resolved to approve the suggestion.								



Item 12.08	Approval/ Ratification of CVAC courses.
Discussion	Dr.MEM presented the CVAC courses ✓ 22CVAC01 Geometric Dimensioning & Tolerancing (GD&T) – No Comments ✓ The members have appreciated the efforts taken to implement the suggestions.
Resolution	Resolved to approve.
Item 12.09	Ratification of PSE courses in R17 (UG) ✓ 17MEX42 Internship for providing credits as per Regulation. ✓ 17MEX43 Product life cycle management
Discussion	 Course 1: 17MEX42 Internship Dr. MEM explained the internship procedure along with evaluation pattern followed for internship 42 students have completed 6 weeks of internship. Course 2: 17MEX43 Product Life Cycle Management Dr. MEM presented the 17MEX43 Product life cycle management syllabus. Dr. Vijay suggested to add concurrent engineering in Unit I and interchangeability, part numbering in Unit II. Mr. Pradeep suggested to have industry tie-up or collaborations for supporting this course.
Resolution	Resolved to approve the suggestion.
Item 12.10	Ratification of PEC courses in R22 (UG) ✓ 22MEX03 Non-traditional Machining Processes ✓ 22MEX04 Design Concepts in Engineering
Discussion	22MEX03 Non-traditional Machining Processes – No Comments 22MEX04 Design Concepts in Engineering – No Comments
Resolution	Resolved to approve.
Item 12.11	Ratification of PEC courses in R22 (PG) ✓ 22EDX28 Fuel cell Technology ✓ 22EDX29 Energy Resources
	Course 1 : 22EDX28 Fuel cell Technology
Discussion	 Dr. Vijay confirmed the availability of hydrogen generation and storage in course contents Dr. Arul NIT suggested to remove course contents like IC engines, comparison fuel cell, battery. Mr. Pradeep suggested to include the challenges and economies of fuel cell in unit V.
	Course 2 : 22EDX29 Energy Resources
	 Members suggested to add energy balancing, energy estimation concepts, bifuels, (in unit II) and energy recovery. Dr. Arul NIT suggested to have current energy scenario in India in unit I.
	 Dr. Arul NIT suggested to rename unit V as other Energy Resources.
Resolution	Resolved to approve.



Item 12.12		ion on re										ttainec
	for the ODD semester of the academic year 2023-24 (I, II, III & IV year).											
Discussion	AC's of	I, II, III &	۶ IV ye	ears p	oresent	ed the fo	ollowin	lg.	•	9		
Resolution	AC's of I, II, III & IV years presented the following. YEAR / SEMESTER : I / I (ODD SEMESTER) 2023-24											
	LEAK / SEMESTER . 1 / 1 (ODD SEMESTER) 2023-24											
	SUBJECT	Total Students Appeared	PASS	ABSENT	FAIL	OVERALL PASS %	TARGET CO	C <u>G</u>	C02	CO3	C04	COS
	ns o	St		AE	H	PA PA	TA					
	22MYB01	53	43	2	10	81.13%	70	74.7	55.3	55.4	74.5	55.9
	22CYB02	53	43	2	10	81.13%	70	65.3	66.0	48.7	50.0	74.
	22MEC02	53	47	2	6	88.68%	70	77.8	80.2	77.9	78.3	90.
	22CYP01	53	53	2	0	100.00%	70	100.0	100.0	100.0	100.0	100
	22GEP01	53	53	2	0	100.00%	70	98.4	98.9	97.4	98.9	99.4
	YEAR / S	SEMEST	ER : II	/Ш	(ODD	SEMES	STER) 2	2023-24	S			
	SUBJECT CODE	Total Students Appeared	PASS	ABSENT	FAIL	OVERALL PASS %	TARGET CO	COI	CO2	CO3	COF	COS
	22MYB03	65	57	0	8	87.69	70	74.71	71.25	39.4	58.5	39.9
	22MEC04	65	63	0	2	96.92	70	74.64	55.2	58.6	77.6	59.0
	22MEC05	65	53	0	12	81.54	70	71.25	69.68	45.5	67.4	65.8
	22MEC06	65	61	0	4	93.85	70	98.15	94.77	77.6	95.1	91.6
	22MEC07	65	60	0	5	92.31	70	92.15	71.09	54.9	75.9	52.3
	22MEP02	65	65	0	0	100	70	98.46	98.46	100.00	98.46	100.0
	YEAR / S	SEMESTI	ER : II	[/V	(ODD	SEMES	TER) 2	2023-24				
	SUBJECT	Total Students Appeared	PASS	ABSENT	FAIL	OVERALL Pass %	TARGET CO	COI	C02	CO3	CO4	cos
	17MEC13	101	91	2	10	90.1	70	72.47	57.95	61.63	81.87	73.17
	17MEC14	101	96	2	5	95.05	70	98	81.33	81	66.67	86
	17MEC15	101	86	2	15	85.15	70	75.99	74.99	53.66	83.65	82.9
	17MEX21	60	55	0	5	91.67	70	65.67	82.89	73.44	81.67	73.4
	17MEX32	59	58	1	1	98.31	70	73.67	75.33	74.89	98.2	66.1
	YEAR /	SEMEST	TER:	[V/Y]	VII (C	DDD SE	MEST	'ER) 2(23-24			
	SUBJECT CODE	Total Students Appeared	PASS	ABSENT	FAIL	OVERALL PASS %	TARGET CO	COI	C02	CO3	C04	cos
	17MEC20	109	103	1	6	94.5	70	70.78	70.02	71.83	70.08	70.09
in state	17MEC21	109	101	1	8	92.66	65	73.27	72.67	68.85	88.71	73.45
	17MEC22	109	106	1	3	97.25	70	70.78	71.08	71.81	48.91	49.03
1	17GEA03	42	33	2	9	78.57	75	57.65	38.18	40.74	57.97	39.4
	17MEP10	109	109	1	0	100	80	90.36	94.87	93.36	86.87	87.37
	17MEP11	109	109	1	0	100	75	97.49	97	96.87	97.53	97.67
And the second se	7MED01	109	109	1	0	100	70	98.4	98.73	98.33	98.67	98.8



Resolution Item 12.13	 BoS members appreciated the performance of students based on the pass percentage. Further, observed that the CO attainments were low in few courses preferable CO3 and suggested to take remedial measures to improve the attainment. Dr. Vijay and Dr. Arul NIT clarified about process of fixing CO targets. Dr. Vijay asked the details about action taken for low CO attainment case. Dr. MEM explained the details of action taken for non-attained course outcomes. Dr. Vijay suggested to develop a software for internal database management. Resolved to record.
Discussion	 BoS members clarified about minimum eligibility fixed for becoming a panel of examiner. Dr. MEM explained the process of preparing panel of examiner for question paper setting, valuation and laboratory examinations based on the examiner specialization viz., Design, Thermal, Manufacturing and Management. The minimum experience of 5 years is fixed for being an examiner on leading institution or NIRF ranked college. Members suggested to see feasibility of having examiners as given below Question paper setting (minimum Ph.D) doctorates Laboratory examiners (5+ years of experience) Project course evaluation/examiner (minimum Ph.D) doctorates
Resolution	Resolved to approve the panel of Examiners for question paper setting, valuation and laboratory examinations
Item 12.14	Review of best practices of the department.
Discussion	 Internship cum placement Dr.MEM presented the Internship cum placement (ICP) as to the best practice of the dept and highlighted the recent (2024 passing) achievement interns of stipends. Dr. Vijay highlighted the best practice of their instituted about the provision of seed money for students and faculty members for research activities. Dr. Vijay suggested the new teaching methodologies ✓ Flipped classroom ✓ Project Based Learning (PBL) ✓ Flexible assessment system by faculty (No standard QP)

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	 ✓ Conduct online quiz in between the class 			
	✓ Collaborative Learning (students work together in groups to solve problems)			
	✓ Case studies, role-playing, and visual aids			
Resolution	Resolved to include the suggestion.			
	Department Achievement for the academic year 2023 – 2024.			
Item 12.15	✓ Student Achievement			
	✓ Faculty Achievement			
	Dr.MEM presented the Student & Faculty Achievement for the academic year 2023 – 2024.			
	Students			
	Internship			
	 Kiruthika M, Janaga Nandhini M.P of final Year Mechanical Engineering have receiv offer letter from Universiti Teknologi PETRONAS (UTP) Malaysia for doing virtu Research Attachment Programme. 			
	• Final year 2024 passing out 42 students have completed (much of i to bi			
	 Final year 2024 passing out 42 students have completed 6 weeks of internship. Merlin Abinava, D.V. of Third Year Machanical Engineering reaction do D. (D. C.) 			
	 Merlin Abinaya. D.V of Third Year Mechanical Engineering received a Best Performance Award from SAEISS. 			
	Kiruthika. M of Final Year Mechanical Engineering received a Best Student Award			
	(Female category) from IEI.			
	Gokulan. C of Final Year Mechanical Engineering received a Best Student Award (Male category) from IEI.			
	Prices won in Co-curricular and extra-curricular			
	• A team of Second Year Mechanical Engineering students received second prize in SA			
Discussion	Bicycle Design Challenge 2023 held at PSNA College of Engineering and Technology, Dindigul.			
	• Varun. K.R of 3rd Year Mechanical won 3rd place in Power lifting at Anna University Zonal.			
	• Varun. K.R of 3rd Year Mechanical won 2nd place in Power lifting at State level Power			
	Lifting. Faculty			
	Awards			
	Dr. M. Easwaramoorthi, HoD/Mechanical, received the Leadership award from SAEISS			
	• Dr. N. Senniangiri, ASP/Mechanical, received the Best Faculty Advisor award from			
	SAEISS.			
	• Faculty members published papers in SCI /Scopus journal – 8, Others – 29			
	Grand-in-aid			
	• Dr. M. Muthukumar, Professor/Mechanical, received the MSME funding of Rs. 1			
	Lakhs.			
• •	• Mr. A. Vishnu, Assistant Professor/Mechanical, received the MSME funding of Rs. 1 Lakhs.			
	BoS members appreciate the achievements			
Resolution	Resolved to record.			

NANDHA ENGINEERING COLLEGE, Erode -638 052

(An Autonomous Institution, Affiliated to Anna University Chennai and Approved by AICTE New Delhi)

Item 12.16 Any other matter – Nil

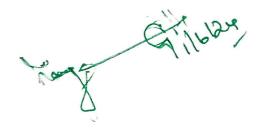
Finally, Dr. S. Magibalan - BoS Coordinator thanked all the members for their active participation.

Date: 01.06.2024

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S.No.	Name of the Expert	Signature
1	Dr. S. P. Vendan, Professor, Department of Mechanical Engineering, PSG College of Technology Coimbatore	Leave of absence
2	Dr. V. Arul Mozhi Selvam, Associate Professor, Department of Mechanical Engineering, National Institute of Technology Trichy	(James)
3	Dr. S. J. Vijay, Professor, Department of Mechanical Engineering, Karunya Institute of Technology and Sciences, Coimbatore	E. E. N?
4	Mr. Pradeep Chandrasekaran, Associate Director - Vehicle Engineering, OLA Electric Technologies Pvt Ltd, Bengaluru	Chardert
5	Mr. Karthikeyan Rajamanickam, Dev Ops Engineer, Eleviant Tech, Coimbatore	Butterff





a16/24

Dr. M. Easwaramoorthi (Chairman, BoS - Mechanical Engineering)



NANDHA ENGINEERING COLLEGE (Autonomous Institution) Pitchandampalayam, Erode To Perundurai Road, Erode-638 052 <u>BOARD OF STUDIES</u>

Academic Year: 2023 - 2024

Board	Mechanical Engineering	Meeting Date.	01-06-2024	Meeting No.	12	R2022	
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LIST OF MEMBERS

SI. No	Members	Representation	Signature
1	Dr. M.Easwaramoorthi, Professor & Dean – Mechanical	Chairman	the Therese
2	Dr. S. P. Vendan, Professor, Department of Mechanical Engineering, PSG College of Technology, Coimbatore – 641 004	University Nominee	Leave of absence
3	Dr. V. Arul Mozhi Selvapí, Associate Professor, Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli – 620015	Expert Nominee (Nominated by Academic Council)	A Swith A 16/2024
4	Dr. S. J. Vijay, Professor, Department of Mechanical Engineering, Karunya Institute of Technology and Sciences, Coimbatore – 641114	Expert Nominee (Nominated by Academic Council)	L.S.V.J
5	Mr. Pradeep Chandrasekaran Associate Director - Vehicle Engineering, OLA Electric Technologies Pvt Ltd. Bengaluru	Member (Expert from Industry)	What
6	Mr. Karthikeyan Rajamanickam Dev Ops Engineer, Eleviant Tech. Coimbatore	Alumni	Phototy



NANDHA ENGINEERING COLLEGE (Autonomous Institution) Pitchandampalayam, Erode To Perundurai Road, Erode-638 052 BOARD OF STUDIES

LIST OF MEMBERS	(INTERNAL	MEMBERS	1

SI.No	Members	Representation	Signature
1.	Dr. M. Muthukumar, Professor – Mechanical	Senior Members	N66/16/24
2.	Dr. B. Ashok Kumar, Professor – Mechanical		Ashalloliy
3.	Dr. S. Magibalan, Associate Professor - Mechanical		S. How 116124
4.	Dr. N. Senniangiri, Assistant Professor - Mechanical		July set h
5.	Dr. M. Manikandan, Assistant Professor - Mechanical		M Mul 10 2024
. 6.	Mr. V.N. Loganathan, Assistant Professor - Mechanical		and topy
7.	Mr. M. Shanmugam, Assistant Professor - Mechanical		Nel 24.
8.	Mr. M. Sengottaiyan, Assistant Professor - Mechanical		m
9.	Mr. S. Eswaran, Assistant Professor - Mechanical		10124