

NANDHA ENGINEERING COLLEGE, ERODE – 638 052

(An Autonomous Institution, Affiliated to Anna University Chennai and

Approved by AICTE New Delhi)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

MINUTES OF THE DEPARTMENT ADVISORY BOARD-II (DAB-II) MEETING

The 2nd DAB meeting was held on 15.3.2023 at 1.30 P.M in Block IV- 305

The Chairman of the DAB. Dr.G.RAMANI, welcomed the members for the meeting. Then, the items listed below were taken for discussion.

AGENDA	
Item 2.01	Review of the previous PAC meeting minutes.
Item 2.02	Review on Institute Vision & Mission and Department Vision, Mission, PEOs & PSOs,if required.
Item 2.03	Discussion on Feedback collected - Class Committee Meeting (CCM), parents meeting,Alumni and Mid sem feedback (II, III & IV year)- reports, analysis and action taken
Item 2.04	Discussion on R22 curriculum (including verticals for Honors and Minors) and draft syllabus of III & IV semester, CO-PO/PSO mapping, analysis and action taken for the feedback received from experts (Industry/Academia/Alumni).
Item 2.05	Discussion on department activities - Research and Development (Consultancy, Publications, Patent, Proposals - Seminar/Workshop/Research grant)
Item 2.06	Discussion on Result Analysis and Attainment of the CO - PO <i>IPSO</i> (Target fixed and attained) of 2022 passed out batch students and action taken.
Item 2.07	Discussion on Result Analysis and Attainment of the CO - PO <i>IPSO</i> (Target fixed and attained) for the ODD semester of the academic year 2022-23 (II, III & IV year)
Item 2.08	Discussion on Department activity plan for the Even semester of the academic year 2022 -2023.
Item 2.09	Any other matter (if any)

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

Item 2.01	Review of Previous PAC Meeting minutes		
	<ul style="list-style-type: none"> Discussed CAT-I attainment analysis for Ist year and action taken report for advanced and slow learners. Discussed Student NPTEL course completion status. Discussed participation of student co curricular and extracurricular activities inside and outside the state. Discussed R22 Curriculum and Syllabus for IIIrd and IVth sem Discussed paper publication, Consultancy, research/seminar/workshop/FDP grant proposal and NPTEL course completion 		
Item 2.02	Review on Institute Vision & Mission and Department Vision, Mission, PEOs & PSOs,if required.		
Discussion	Discussed Institute Vision & Mission and Department Vision, Mission, PEOs & PSOs		
Resolution	Resolve to accept.		
Item 2.03	Discussion on Feedback collected - Class Committee Meeting (CCM), parents meeting, Alumni and Mid sem feedback (II, III & IV year)- reports, analysis and action taken		
Discussion	<ul style="list-style-type: none"> No complaints were received in class committee meeting. Parents meeting for first year were conducted on 21.2.2023.CAT Performance and attendance percentage of the students was discussed. Students who secured low performance in CAT exam and low attendance percentage were intimated to the parents in the parents meeting. Discussed about the alumni feedback collected from the alumni students. Mid sem feedback and its report for II,III&IV year were discussed in the meeting. The faculty members who got less than 70 percentage in students feedback are asked to give reason for securing the low percentage. 		
Resolution	Resolve to accept the reports of class committee, parents meeting,Alumni and midsem feedback.		
Item 2.04	Discussion on R22 curriculum (including verticals for Honors and Minors) and draft syllabus of III & IV semester, CO-PO/PSO mapping, analysis and action taken for the feedback received from experts (Industry/Academia/Alumni).		
Discussion	<u>SEMESTER III</u>		<u>SEMESTER IV</u>
	S. NO.	COURSE TITLE	COURSE TITLE
	1	Electronic Devices and Circuits	Electrical Machines-II
	2	Electrical Machines-I	Analog Integrated circuits

3	Electromagnetic Fields	Power Generation, Transmission and Distribution
4	Digital logic Circuits	Measurements and Instrumentation
5	Electronic Devices and Circuits Laboratory	Microprocessor and microcontoller
6	Electrical Machines-I Laboratory	Electrical Machines-II Laboratory
7		Analog and Digital Integrated Circuits Laboratory

- Chairman presented the R22 Curriculum along with vertical for honors, minors and syllabus for IIIrd and IVth sem. DAB members discussed the Syllabus and CO-PO/PSO mapping of all above subjects.

Electromagnetic Theory

Dr.T.Logeswaran suggested to include electromagnetic waves from unit-V to unit-IV

Analog Integrated circuits

Dr.T.Logeswaran suggested to include more topics in unit-I and modify the Topic Fixed voltage regulators and its application as Linear power supply

Electrical Machines-II

Mr.V.Sasikumar suggested to reduce topics of special electrical machines in unit-v

Mr.V.Sasikumar suggested to reduce the contents in unit-III

Digital Logic circuits

Dr.T.Logeswaran suggested to update the text book.

Measurements&Instruementation

Ms.B.Shalini suggested to include more topic in the syllabus related to gate questions.

Microprocessor and Microcontroller

Mr.V.Sasikumar suggested to include the below mentioned topics which is currently used in the industrial applications.

- USAR
- PIC 16F877A
- PIC Instruction set
- ARM LPL 2148
- ARM TDMIS

Microprocessor and Microcontroller Lab

Ms.B.Shalini suggested to include more experiment related to PIC Micrcontroller.

Resolution	Resolve to accept the above suggestions given by expert members for the above mentioned subjects and put forth to BOS-XI
Item 2.05	Discussion on department activities - Research and Development (Consultancy, Publications, Patent, Proposals - Seminar/Workshop/Research grant)
Discussion	<ul style="list-style-type: none"> • Dr.G.Ramani and Dr.P.Jamuna published the book “Electrical Vehicle technology” • Mr.P.krishnagandhi received IEEE CS emerging technologies fund of Rs 82400 in the event business plan competition. • Mr.P.Krishnagandhi received MSME grant of Rs 14.75 lakh for the product development titled “Smart Solar waste segregation using IOT” • Dr.T.Jayakumar,Dr.G.Ramani,Dr.P.Jamuna,B.Ramraj Published in Automatika journal,Taylor and Francis Publication on 23rd January 2023. • Dr.P.Jamuna and Mr.M.Prabu Successfully completed 12 week online NPTEL Course “Smart grid”. • Mr.P.Krishnagandhi attended workshop in creating a Successful startup in Kongu Engineering College between 2.2.2023 to 4.2.2023 • Mr.P.Krishnagandhi, Mrs.C.Pratheeba, V.Ravichandran, M.Manjula attended online workshop on Emerging trends, Challenges and opportunities in wireless charging of electric vehicles in SRM Institute of science and technology between 20.2.2023 to 25.2.2023 • Mrs C.Pratheeba and Mr.V.Ravichandran attended online workshop on journal paper writing in RAMCO Institute of technology on 10.2.2023 • Mrs.C.Pratheeba and V.Ravichandran attended a online webinar on Multi domain modeling with Simscape using MATLAB on 11.10.2022
Resolution	Resolve to accept. Expert members Suggested an active participation of remaining faculty members to involve in above activities.
Item 2.06	Discussion on Result Analysis and Attainment of the CO - PO /PSO (Target fixed and attained) of 2022 passed out batch students and action taken.
Discussion	<p>Total number of students in 2018-2022 batch:77 Total number of students all clear in 2018-2022 batch:74 96% of students got all clear in 2028-2022 batch The target fixed for 2018- 2022 passed out batch is 67%. PO1, PO2, PO3, PO4, PO5, PO6, PO11, PSO1, PSO2, PSO4 attained above target level PO7, PO8, PO9, PO10, PSO3 not attained target attainment level of 67%.</p> <p><u>ACTION TAKEN</u></p> <p>PO7-Understand the impact of the solutions on the environment to ensure sustainability. Action taken: Awareness on environment and sustainability can be improved by organising social club activities.</p> <p>PO8-Understanding of professional and ethical responsibility</p>

Action taken:

Students are assigned with responsibilities as Event Coordinators/ Volunteers in organizing programs through Department association/Profession Society to learn the professional and ethical responsibilities

PO9-Function as an individual and as a part of multidisciplinary team to accomplish a common goal

Action taken:

Participation in Co-curricular and Extracurricular activities was promoted to bring out individual skills of each student.

PO10-Communicate effectively in both verbal and written forms

Action taken:

Soft skill training programs were provided for the improvement of communication and presentation skills like reading, writing, speaking etc.

PSO3-Demonstrate the ability to communicate correctly, effectively work in a team and develop good personality.

Action taken:

Soft skills – Reading, Listening and Reasoning are added in the curriculum.

Resolution

Resolve to accept the action taken report for not attained PO and PSO.

Item 2.07

Discussion on Result Analysis and Attainment of the CO - PO *IPSO* (Target fixed and attained) for the ODD semester of the academic year 2022-23 (II, III & IV year)

II YEAR

s.no	Subject name	Pass percentage	Target attainment fixed(in percentage)	Achieved course outcome attainment in percentage				
				CO1	CO2	CO3	CO4	CO5
1	Transforms and Partial Differential Equations	73	70	73	49	57	89	57
2	Electronic Devices and Circuits	87	70	63	62	77	78	74
3	Electrical	92	70	70	70	72	79	63

Discussion

	Machines-I							
4	Field Theory	95	70	67	74	58	73	65
5	Power Plant Engineering	100	70	67	74	54	81	73
6	Data Structures and algorithms	95	70	79	79	78	78	77
7	Electronic Devices and Circuits Laboratory	100	70	100	100	100	100	100
8	Electrical Machines-I Laboratory	95	70	100	100	100	100	100

III YEAR

s.no	Subject name	Pass percentage	Target attainment fixed	Achieved course outcome attainment in percentage				
				CO1	CO2	CO3	CO4	CO5
1	Principles of management	92	70	73	74	82	82	81
2	Measurement and Instrumentation	93	70	48	56	97	96	57
3	Control system	100	70	75	74	78	73	81
4	Power Electronics	95	70	77	59	78	96	72
5	Communication Engineering	100	70	71	56	73	81	66
6	High voltage Engineering	97	70	75	58	75	82	66
7	Database systems concepts	100	70	75	81	83	60	71
8	Control and instrumentation laboratory	100	70	100	100	100	100	100
9	Power Electronics Laboratory	98	65	100	100	100	100	100
10	Essence of Indian	100	70	100	100	100	100	100

traditional knowledge									
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IV YEAR

s.no	Subject name	Pass percentage	Target attainment fixed	Pass percentage	Target attainment fixed	Achieved course outcome attainment in percentage				
						CO1	CO2	CO3	CO4	CO5
1	Electric drives and control	100	75	100	75	72	73	68	72	71
2	Power system protection and switch gear	100	75	100	75	89	73	72	64	72
3	Principles of embedded systems	100	70	100	70	72	66	60	65	71
4	Power system operation and control	89	70	89	70	73	73	59	98	65
5	Flexible AC Transmission systems	100	70	100	70	57	57	57	81	64
6	Software Engineering	100	75	100	75	55	71	81	86	67
7	Power system simulation laboratory	100	80	100	100	100	100	100	100	100
8	Project work-I	100	100	100	80	100	100	100	100	100

DAB Members discussed result analysis, target fixed and achieved course outcome for II year, III year and IV year subjects.

Resolution	Resolve to accept and Expert members suggested the faculty members to train the students by giving assignment, special coaching, class test to achieve the individual subject course outcome attainment with individual subject attainment target fixed
Item 2.08	Discussion on Department activity plan for the Even semester of the academic year 2022-2023.
Discussion	Plan to conduct academic seminar for students in the following areas i)Electrical vehicle

	ii)Smart grid iii)Electrical saftey
Resolution	Resolve to accept the proposed academic activities.
Item 2.09	Any other matter (if any)

Date:28.2.2023
Place: NEC


CHAIRMAN
DAB/EEE