NANDHA ENGINEERING COLLEGE, ERODE – 638 052

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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
MINUTES OF THE DEPARTMENT ADVISORY BOARD (DAB) MEETING

The 2nd DAB meeting was held on 06.05.2023 at 10.00 am through Virtual Mode.

The Chairman of the DAB, Dr.D.Vanathi, 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 /PSO (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 /PSO (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

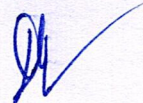The proceedings of DAB started and the minutes of the meeting were recorded as follows:

Item 2.01	Review of the previous PAC meeting minutes.
Discussion	❖ R22 Curriculum was discussed and suggestions were incorporated. ❖ Common courses of CSE, CSE(CS) and CSE(IoT) in the third semester and fourth semester were discussed in the CSE board. ❖ Dr.D.Vanathi, Chairman suggested prescribing recent text books and reference books for all subjects. ❖ Dr. D.Vanathi insisted the faculty members concentrate more on research activities like Paper Publication, Consultancy, Research, Grant Proposal and NPTEL course completion to achieve their individual target. ❖ Dr.D.Vanathi asked the faculty members to motivate the students to participate in events in high ranking colleges like PSG, NIT, IIT for improving the confidence level as well as enriching the knowledge levels of the students. ❖ Dr.P.Thirumoorthy opined that the students of second and third year should be encouraged to develop Applications (APPs) that can be used for department or college purposes. ❖ For CSE(IoT), Syllabus of the third semester and fourth semester courses such as Introduction to IoT, IoT Laboratory, Sensors and Microcontrollers, Sensors and Microcontrollers Laboratory and Ubiquitous Sensing, Computing and Communication was reviewed and the suggestions given by the PAC members was incorporated. ❖ Mapping of CO-PO/PSO of Introduction to IoT, IoT Laboratory, Sensors and Microcontrollers, Sensors and Microcontrollers Laboratory and Ubiquitous Sensing, Computing and Communication have been verified. ❖ Dr.E.K.Vellingiriraj suggested that in the fourth semester, four credits of the course "Sensors and Microcontrollers" can be changed to three credits. ❖ Mr.S.Ramesh suggested having two credits for the IoT Laboratory instead of one credit. ❖ Dr.E.K.Vellingiriraj recommended that the course "Ubiquitous Sensing, Computing and Communication" can be provided as a project based learning course. ❖ For CSE(CS), Syllabus of the third semester and fourth semester courses such as, Database security, Database security Laboratory, Secure Software Engineering, Cryptography and Network Security and Cryptography and Network Security Laboratory was reviewed and the suggestion given by the PAC members was incorporated. ❖ Dr.S.Prabhu suggested that in the fourth semester, four credits of the course "Secure Software Engineering" can be changed to three credits. ❖ Ms.B.Raja Rajeswari suggested two credits for Cryptography and Network Security Laboratory instead of one credit.
Item 2.02	Review on Institute Vision & Mission and Department Vision, Mission, PEOs & PSOs, if required.
Discussion	As it was decided to revise the Institution's Vision and Mission, to align with that, it has been decided to revise the department Vision and Mission also as **Vision of the CSE department** • To be a centre of excellence providing Computer Science and Engineering education to meet the ever growing needs of the society. **Mission of the CSE department** • To provide quality education to produce Computer Science professionals with social responsibility

	- To excel in research in the field of Computer Science and Engineering - To be a learner centric environment with continual progress to meet the global computing needs. **Vision of the CSE(IoT) department** - To be a centre of excellence providing high quality Computing and Internet of Things education to meet the ever growing needs of the smart society. **Mission of the CSE(IoT) department** - To provide quality education to produce Computer Science and Internet of Things professionals with social responsibility - To excel in research in the field of Computing and Internet of Things - To be a learner centric environment with continual progress to meet the global smart computing needs. **Vision of the CSE(CS) department** - To develop a pool of high caliber professionals, researchers and entrepreneurs in computing and cyber security to meet the ever-changing needs of a secured society. **Mission of the CSE(CS) department** - To provide quality education to produce Computer Science and Cyber Security professionals with social responsibility. - To excel in the thrust areas of Computing and Cyber Security by solving real-world challenges. - To create a learner centric environment and improve continually to meet the global secure computing needs.
Resolution	Institute Vision & Mission and Department Vision, Mission, PEOs & PSOs are reviewed.
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	☐ Class Committee Meeting (CCM) minutes were reviewed and no discrepancies were found. ☐ Parents meeting for II, III and IV year was conducted to discuss the students' performance. Parents of placement willing students were asked to create a WhatsApp group for them to know their ward's status. ☐ Alumni suggested that Learning Quality Assurance related concepts in IT companies gives more value, so if students get opportunities in companies to work as interns it's helpful. ☐ Further he opined that in testing there is a scope for both manual and automation. The students need to learn some tools like JIRA, ALM, EXCEL etc… ☐ Mid semester analysis feedback was collected from the students and it was found satisfactory. Faculties were asked to work towards further betterment.
Resolution	Resolved to accept and change.
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	★ As per Anna University norms, Tamil Subject is included in the first and second semester. ★ Problem Solving in C Programming subject is added in the first semester, Advanced C and Linear Data Structure is added in the second semester, and Non-Linear Data Structure is added in the third semester.

- ★ Anna University suggested incorporating one degree & one bucket minor degree course, for all engineering. Hence a Full Stack Development course had been included in the curriculum.
- ★ Events like Ideathon, Product Development & Innovation day were conducted.
- ★ Eight consultancy projects were completed, and the Machine Learning subject was also added in the elective list.

Dr.Gopalakrishnan opined the following points
- ☐ The progress of the department in all aspects was good.
- ☐ Students were asked to do one certification course in the third or fourth semester in Infosys, Google, or NPTEL which covers most of the syllabus of elective subjects. The above certified students can opt out of the fifth or sixth semester elective subject.

Mr.T.Dinesh suggested the following points:
- ❖ Include Information Retrieved, Web Mining, Business Intelligence, Architectural Design, Data & Solution Architecture as elective or one credit subjects.
- ❖ In Software Engineering subject, include Open Source Technology, Data Model, Reverse & Forward Engineering topics.
- ❖ Prefer to teach AI Tools.

Mr.D.Manojkumar suggested the following Points:
- ★ More Courses based on Industry requirements like Quantum Computing, Data Analytics & Visualization can be included in the elective list.
- ★ Try to include NoSQL Visualization Tools like MongoDB.
- ★ Prefer to teach AWS Cloud concept.

Resolution	Resolved to accept and Change.
Item 2.05	Discussion on department activities - Research and Development (Consultancy, Publications, Patent, Proposals - Seminar/Workshop/Research grant).

Discussion		Title	CSE	CSE(CS)	CSE(IoT)

Title	CSE	CSE(CS)	CSE(IoT)
Consultancy	8	0	0
Publications	21	0	0
Patent	2	0	0
Proposals	10	0	0
Seminar/Workshop	27	1	3
Research grant	0	0	0

Resolution	Need improvements in the new department CSE(CS) and CSE(IoT).

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	Result Analysis and Attainment of the CO, PO and PSO of the batch 2018 to 2022 were discussed and few PO's were not attained the target level .So in future it was decided to fix the target attainment as 70% in the R22 regulation.
Resolution	Resolved to accept and follow.
Item 2.07	Discussion on Result Analysis and Attainment of the CO - PO /PSO (Target fixed and attained) for the ODD semester of the academic year 2022-23 (II, III & IV year)
Discussion	Some PO's have not attained the target level .So in future it was decided to fix the target attainment as 70%.
Resolution	Resolved to accept.
Item 2.08	Discussion on Department activity plan for the even semester of the academic year 2022 -2023.
Discussion	Department activity plan for the even semester of the academic year 2022 -2023 was discussed.
Resolution	Accepted the Department activity plan.
Item 2.09	Any other matter
Discussion	Experts suggested the following points: ➢ Faculties were asked to do one NPTEL course in each semester. ➢ Increase the count of recognized supervisors. ➢ The faculty members were motivated to register for a PhD programme in renowned Universities.
Resolution	Resolved to accept and follow.

Date: 15-05-2023

CHAIRMAN
DAB/CSE