

NANDHA ENGINEERING COLLEGE, ERODE - 638 052

(An Autonomous Institution, Affiliated to Anna University Chennai and

Approved by AICTE New Delhi)

MINUTES OF THE 8th BOARD OF STUDIES MEETING

Name of the Body	Board of Studies
Name of the Board	Mechanical Engineering
Meeting No.	08
Date & Time	28.08.2020, 11.00 am
Mode	Online Mode

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Minutes of 8th Board of Studies Meeting (BoS) held on 28.08.2020

The 8th Board of Studies (BoS) meeting was held on 28.08.2020 by 11.00 am through online mode as per permission given by Anna University. The members attended the meeting are given in Annexure I.

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

AGENDA	
Item – 8.01	To review Action Taken Report (ATR) on 7 th BoS meeting minutes of Mechanical Engineering held on 29.12.2018
Item – 8.02	To review Action Taken Report (ATR) on 7 th Academic Council meeting minutes (for Mechanical Programme)
Item – 8.03	Minutes of 20 th Standing Committee for Academic Affairs (for information)
Item – 8.04	Consideration for credits earned either through Online/ one credit courses or combination of both
Item – 8.05	Approval of New professional elective courses in R17 regulation (UG) 1. Industrial Internet of Things (Ratification) 2. 3D Printing Technology 3. Fuel Cells and Applications 4. Geometric Dimensioning and Tolerancing 5. Biomechanics (Biomedical Engg program)
Item – 8.06	Approval of Proposed Open Electives (R17) (UG) 1. Smart Mobility
Item – 8.07	Approval of One Credit Courses (UG) 1. Lean Manufacturing Tools
Item – 8.08	Introduction of Open Electives (R17 - PG)
Item – 8.09	Approval of Panel of Examiner
Item – 8.10	Any other matters
	Vote of thanks

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

Item – 8.01	To review the Action Taken Report (ATR) on 7 th BoS meeting minutes of Mechanical Engineering held on 29.12.2018 (Annexure II)	
Discussion	The salient decisions taken in the 7 th BoS meeting and action taken were presented. The members have appreciated the efforts taken to implement the suggestions.	
Resolution	Resolved to approve the ATR of 7 th BoS meeting.	
Item – 8.02	To review Action Taken Report (ATR) on 7 th Academic Council meeting minutes (Annexure - III)	
Discussion	The important suggestions given by the academic council members specific to Mechanical Engineering program during the 7 th Academic Council meeting and action taken were presented. The members have appreciated the efforts taken to implement the suggestions.	
	All members have noted the ATR of 7 th Academic Council meeting.	
Item – 8.03	Minutes of 20 th Standing Committee for Academic Affairs (for information) Significant decisions (given below) taken in the 20 th SCAA were presented to members of BoS.	
	(a) Introduction of new Open Electives (OE) <ul style="list-style-type: none"> • Problem Solving and Programming (Board to approve syllabus CSE) • Problem Solving and Algorithmic Skills (Board to approve syllabus IT) • Effective Communication (S & H) • Employability Enhancement and Analytical skills (S & H) 	Students who are willing to acquire programming skills / willing for placement can opt as OE
	(b) Credit weightage for online courses (clause 5.10 & 10.5- Regulation-R17)	Student can be allowed to earn maximum of 15 credits through online courses
Discussion	(c) Review of existing CAT pattern and changes (clause 10.1-Regulation-R17)	Two Continuous Assessment Tests (CAT) of equal weightage. Reassessment test (Re-CAT) at the end of the semester
	(d) Permitting students for Re-CAT (genuine reasons/improvement)	One reassessment test (Re-CAT) at the end of the semester
	(e) Provisions for winter track (clause 7.5.1-Regulation-R17)	To allow two courses (up to 6 credits) in the winter and four courses (up to 12 credits) in the summer
	(d) Provision for minimum and maximum credits for course registration (clause 7.4.2 - Regulation-R17)	Minimum of 16 credits and maximum of 30 credits in a particular semester. However, the final semester students can be permitted to register for a minimum of 12 credits.
	Members appreciated the efforts taken by the college towards providing flexibility to the students to choose courses based on their interest.	
Resolution	Members noted the contents of the SCAA and resolved to record the same.	

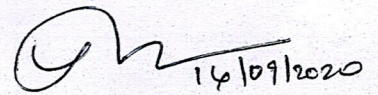
Item – 8.04	Consideration for credits earned either through Online / one credit courses or combination of both.	
Discussion	Dr. Anand NIT has suggested fixing minimum number of online courses to be studied by a student. Dr. Nataraj (GCT) expressed his views on the online course and recalled the AICTE's recent directives to permit students to earn credits through online courses to the extent of 20% per semester. Dr. M. Easwaramoorthi, Chairperson of BoS has put forth the current status of students studied courses online and existing provision in the regulation for course exemption for the students who have successfully completing online courses. Since more students are already studying online course, it was decided not to fix minimum number of courses to study and motivate students to study more online courses	
Resolution	Resolved to approve the decision	
Item – 8.05	Chairman BoS has presented the curricular gaps (following courses) suggested by the industry and academic experts. To review and approve the syllabi of New Programme Specific Electives (PSE) under Regulation R17 (CBCS) for the batch of students admitted in B.E., Mechanical Engineering programme from the year 2017 - 18 onwards <ol style="list-style-type: none"> 1. Industrial Internet of Things (Ratification) 2. 3D Printing Technology 3. Fuel Cells and Applications 4. Geometric Dimensioning and Tolerancing 5. BioMechanics (BioMedical Engg program) 	
Discussion	Programme Specific Electives: Course-1: Industrial Internet of Things (Ratification) Dr. R. B. Anand (NIT Trichy) suggested to rename Unit-I title	✓ Modified as Concepts of Electrical and Electronics for IOT
	Course-2: 3D Printing Technology <ul style="list-style-type: none"> • Dr. R. B. Anand (NIT Trichy) suggested to combine Unit-I and Unit-II contents • Dr. M. Elangovan (SNS college) advised to add the contents related to 3D printing applications in Medical, Dental field and Design for Additive Manufacturing. • Dr. M. Nataraj (GCET) suggested to include tutorials in Unit-V 	✓ Combined ✓ Included ✓ Included
	Course-3: Fuel Cells and Applications Dr. R. B Anand (NIT Trichy) suggested to update the text books and reference books	Modified and Updated
	Course-4: Geometric Dimensioning and Tolerancing Dr. M. Nataraj (GCET) suggested to rename the title Fundamentals of Geometric Dimensioning, Tolerancing and Drawing Standards as Geometric Dimensioning and Tolerancing. Dr. M. Elangovan (SNS college) suggested to add the basics contents of selective assembly, cumulative assembly and their	✓ Modified and Updated ✓ Included in Unit-V

	cost implications or effects	
	Course-5: BioMechanics (BioMedical Engg program) No comments regarding the syllabus All the members asked to see the possibilities of including the course as Programme Specific Elective for Mechanical Engineering Programme also	Decided to add the course in PSE category.
Resolution	Resolved to approve the syllabi of new Program Specific Electives (PSE) under Regulation R17 (CBCS).	
Item – 8.06	To review and approve the syllabi of Open electives (OE) under Regulation R17 (CBCS) for the batch of students admitted in UG programme from the year 2017 - 18 onwards	
Discussion	Open Electives: Course-1: Smart Mobility Dr. Khader Basha (CVRDE) has suggested to <ul style="list-style-type: none"> • include Obstacle crossing, identification of friend or foe vehicles in Unit-V • add Dashboard electronics in Unit-II • include Fuzzy logic, PID and PWM controllers in Unit-III • check the collaboration of all controllers under the heading ECU in Unit-I 	<ul style="list-style-type: none"> ✓ Included ✓ Added ✓ Included ✓ Ensured the coverage of contents
Resolution	Resolved to approve the syllabus of Open electives (OE) under Regulation R17 (CBCS) for the batch of students admitted in UG programme from the year 2017 - 18 onwards	
Item – 8.07	To approve proposed One Credit Courses (R17 regulation)	
Discussion	Course-1: Lean Manufacturing Tools No comments	
Resolution	Resolved to approve the proposed one credit courses	
Item – 8.08	<ul style="list-style-type: none"> • Introduction of Open Electives (R17 - PG) • To review and approve the syllabi of Open electives (OE) under Regulation R17 (CBCS) 	
Discussion	<ul style="list-style-type: none"> • Dr. MEM presented PG program (Engineering Design) existing curriculum and requested approval for creating provision to offer open elective courses from 2nd semester onwards. Also, the syllabus of the proposed OE course "Research Methodology" which is to be approved by MBA board was presented to members. • Proposed syllabus of an open elective course on Logistics and Supply Chain Management (to be offered preferably to MBA program) was presented. 	
Resolution	Resolved to approve <ul style="list-style-type: none"> • the proposal of providing provision for Open electives (OE) in the existing curriculum at 2nd & 3rd semesters under Regulation R17 (CBCS) for the batch of 	

	students admitted in PG programme from the year 2017 - 18 onwards. • the syllabus for the course "Logistics and Supply Chain Management".
Item – 8.09	To approve panel of Examiners for question paper setting, valuation and laboratory examinations
Discussion	The BoS members recommended to prepare the panel of examiners based on their specialization viz., Design Engineering, Thermal Engineering, Manufacturing Engineering and Management
Resolution	Resolved to approve the panel of Examiners for question paper setting, valuation and laboratory examinations
Item – 8.10	Any other matter

Finally, Dr. M.K. Murthi, Head of the Department thanked all the members for their active participation

Date: 28.08.2020



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

