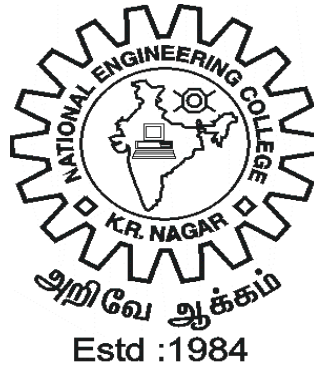


NATIONAL ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University Chennai)

K.R.NAGAR, KOVILPATTI – 628 503



17th BOARD OF STUDIES MEETING – MINUTES

Google Online Meet
PERIOD - JULY 2022

Department of Mechanical Engineering

MINUTES of 17th Meeting of the Board of Studies held on
09th July, 2022 at 11.00 a.m. (Online mode)
Google meet Link: meet.google.com/qvp-fajx-bfi

Venue: Seminar Hall, Department of Mechanical Engineering,
National Engineering College

National Engineering College, K.R.Nagar, Kovilpatti– 628503

(An Autonomous Institution -Affiliated to Anna University, Chennai)

www.nec.edu.in

**17th Board of Studies Meeting
Department of Mechanical Engineering**

Venue: Seminar Hall, Department of Mechanical Engineering,
National Engineering College

Date & Time: 09.07.2022 & 11.00 a.m.

Online Mode

Google Meet Link: [meet.google.com/ qvp-fajx-bfi](https://meet.google.com/qvp-fajx-bfi)

AGENDA

BoS / MECH17.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Mechanical Engineering
BoS / MECH17.2	:	Action taken report of 16 th meeting of Board of Studies
BoS / MECH17.3	:	Business brought forward by the Chairman, Board of studies
		17.3.1 Syllabus for Open Elective Courses Regulation 2019.
		17.3.2 Approval for List of Examiners
BoS / MECH17.4	:	Suggestions given by the BOS Members
BoS / MECH17.5	:	Any other items

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)

F. No. 1-1/NEC/MECH

09th July, 2022

Dear Sir/Madam,

Sub: Minutes of the 17th Meeting of the Board of studies in the Mechanical Engineering - Reg.

Kindly find attached herewith the Minutes of the 17th Meeting of Board of studies of the Mechanical Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 09th July 2022 at 11.00 a.m. (Online mode) in Seminar Hall, Department of Mechanical Engineering, National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

It is requested that comments on the Minutes, if any, may please be sent by email at hodmech@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed. With Kind Regards,

Yours Sincerely,

h.u - 82
(Dr.K.Manisekar)

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)

Department of Mechanical Engineering

MINUTES OF THE MEETING

The 17th Meeting of the Board of studies of the Mechanical Engineering was held on 09th July 2022 at 11.00 a.m. (Online mode - Google Meet Link: [meet.google.com/ qvp-fajx-bfi](https://meet.google.com/qvp-fajx-bfi)) in the Seminar Hall, Department of Mechanical Engineering, National Engineering College, K.R.Nagar, Kovilpatti – 628 503

1. The following members were present

1.	Dr. K.Manisekar, Professor & Head	Chairman
2.	Dr. Tamilselvi, Deam Academic	Internal Members
3.	Dr. S.Iyah Raja, Professor	
4.	Dr. D.Venkat Kumar, Professor	
5.	Dr. R.Harichandran, Professor	
6.	Dr. D.Vignesh Kumar, Asst. Prof. (S.G)	
7.	Dr. P.Ramanan, Asst. Professor (S.G)	
8.	Dr. F.Michael Thomas Rex, Asst. Prof. (S.G)	
9.	Mr. R.Vijaykumar, Asst. Prof. (S.G)	
10.	Mr. A.Arul Marcel Moshi, Asst. Prof. (S.G)	
11.	Dr. T. Sakthi, Asst. Prof. (S.G)	
12.	Mr. B.Prince Abraham, Asst. Professor	
13.	Mr. K.Thoufiq Mohammed, Asst. Professor	
14.	Dr. W.Beno Wincy, Asst. Professor	
15.	Dr. N.Karthikeyan, Asst. Professor	
16.	Mr. S.S.Ananthan, Adjunct Faculty	
17.	Dr. G.Kumaresan Deputy Director (Research) & Associate Professor Institute for Energy Studies, CEG, Anna University, Chennai	Academic Experts

18.	Dr.-Ing. M. Duraiselvam Professor / Production Engineering, National Institute of Technology, Trichy	Academic Experts
19.	Dr.A.Arockiarajan Professor / Applied Mechanics, Indian Institute of Technology, Chennai	
20.	Mr. R. Kanda Subburaj Chief Engineer, Project Controls, AMEC Foster Wheeler India Pvt. Ltd, Chennai	Industrial Experts
21.	Mr. P. Muniyandi, Principal Scientific Officer, Controllerate of Quality Assurance (Ordnance Factory Vehicles), Jabalpur - 482 009, Madhya Pradesh.	
22.	Mr. P. Sriram, Joint Executive President, Ultratech in Aditya Birla Group, Pune, Maharastra.	
23.	Mr. Sivaram Sundaram, Senior Director, Comcast India Engineering Centre, Thoraipakkam, Chennai - 97	
24.	Mr. Anadhavel, III Year Student	
25.	Mr. Sivakumar G, III Year Student	Student Members

2. The Industrial Expert Member Dr.D.Mohanlal, Professor, Department of Mechanical Engineering, CEG campus, Anna university, Chennai and University Nominee Dr. K.Murugan, Scientist-E, Centre for Sol-Gel coatings, ARCI, Hyderabad, Telangana could not attend the meeting due to their prior commitments and unavoidable reasons and they were granted leave of absence.

BoS / MECH17.1	:	WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF MECHANICAL ENGINEERING
		The Chairman, BOS of the Mechanical Engineering welcomed and introduced the members of 17 th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.
BoS / MECH 17.2	:	TO CONFIRM THE MINUTES OF SIXTEENTH BOS MEETING HELD ON 27 th November, 2021
		The minutes of the Sixteenth Board of Studies meeting held on 27 th November, 2021 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 16 th Academic council. (Enclosed in Annexure – I)
BoS / MECH 17.3.1	:	TO CONFIRM AND APPROVE the open elective courses under Regulation 2019. (Enclosed in Annexure – II)
BoS / MECH 17.3.2	:	TO CONFIRM AND APPROVE the List of Examiners – B.E. Mechanical Engineering Programme under Regulation 2019. (Enclosed in Annexure – III)
BoS / MECH 17.4	:	Suggestions Given by the Members
17.4.1	:	<p>“Project Management and Finance”</p> <ul style="list-style-type: none"> • Finance management shall be considered to be offered as an exclusive elective. • The topic Big data analytics in the unit 3 was suggested to be removed considering the relevance. • Financial feasibility, analytics and capital budgeting shall be included. • Product based mini projects shall be offered to the students.

17.4.2	:	“Indian Economy” – The Syllabus coverage shall be ensured in the listed reference books.
17.4.3	:	<p>“Sustainable developments and practices” - Suggested to include the below listed protocol</p> <ul style="list-style-type: none"> • green initiatives of Indian government, • green house gas emission reduction, • Renewable energy initiatives. • 17 goals of sustainable development.
17.4.4	:	“Women in Indian Society” – Suggested to add women in technology and education.
BoS / MECH 17.5	:	Any other items
17.4.6	:	<p>R-2019 – Project Phase - I and Project Phase – II</p> <ul style="list-style-type: none"> • The quality of projects and involvement of faculty and the external supervisors from industry shall be ensured. • Suggested to redefine the process of project. • Suggested to brainstorm the project batches in the 5th semester itself. <p>Curriculum structure for R-2023 has been discussed.</p> <ul style="list-style-type: none"> • Suggested to include AI, ML Machine vision topics in core subjects. • Suggested to provide programming basics to the students. • Suggested to provide industry related problems as student projects.

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the curriculum and syllabus of R-2019.

Based on the suggestions given by the members, BOS resolved to recommend the Syllabus for open elective course courses – B.E. Electrical and Electronics Engineering Programme under Regulation 2019 to the Academic Council for further approval.


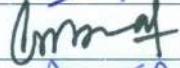
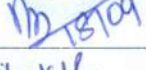

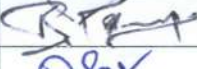

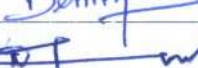
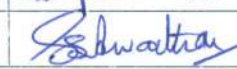


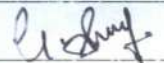
Dr. S.Iyahraja, Professor / Mechanical Engineering thanked all the members for their kind cooperation and the meeting came to an end.

Members Present Online

Dr. G.Kumaresan Deputy Director (Research) & Associate Professor Institute for Energy Studies, CEG, Anna University, Chennai	Academic Experts
Dr.-Ing. M. Duraiselvam Professor / Production Engineering, National Institute of Technology, Trichy	
Dr.A.Arockiarajan Professor / Applied Mechanics, Indian Institute of Technology, Chennai	
Mr. R. Kanda Subburaj Chief Engineer, Project Controls, AMEC Foster Wheeler India Pvt. Ltd, Chennai	Industrial Experts
Mr. P. Muniyandi, Principal Scientific Officer, Controllerate of Quality Assurance (Ordnance Factory Vehicles) Jabalpur- 482009 Madhya Pradesh.	
Mr. P. Sriram, Joint Executive President, Ultratech in Aditya Birla Group, Pune, Maharastra.	
Mr. Sivaram Sundaram, Senior Director, Comcast India Engineering Centre, Thoraipakkam, Chennai- 97	

Members Present

<u>Chairman</u>	
Dr. K.Manisekar, Professor & Head	K.M - 22
<u>Internal Members</u>	
Dr. Tamilselvi, Deam Academic	
Dr. S.Iyah Raja, Professor	S.Iyah Raja
Dr. D.Venkat Kumar, Professor	D.Venkat Kumar
Dr. R.Harichandran, Professor	R.Harichandran
Dr. D.Vignesh Kumar, Asst. Prof. (S.G)	D.Vignesh Kumar

Dr. F. Michael Thomas Rex, Asst. Prof. (S.G)	
Mr. R. Vijaykumar, Asst. Prof. (S.G)	
Mr. A. Arul Marcel Moshi, Asst. Prof. (S.G)	
Dr. T. Sakthi, Asst. Prof. (S.G)	
Mr. B. Prince Abraham, Asst. Professor	
Mr. K. Thoufiq Mohammed, Asst. Professor	
Dr. W. Beno Wincy, Asst. Professor	
Dr. N. Karthikeyan, Asst. Professor	
Mr. S.S. Ananthan, Adjunct Faculty	
<u>Student Members</u>	
Mr. Anadhavel, III Year Student	
Mr. Sivakumar G, IV Year Student	

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09/03/22
CHAIRMAN
BOARD OF STUDIES

ANNEXURE – I

Action taken for Minutes of 16th BoS Meeting

Sl.No	Suggestions by BOS Committee	Action Taken
1.	“19ME42E - Operations and Production Management” programme elective course title may be changed as “Production and Operations Management”	Title changed and Incorporated in syllabus
2.	Safety standards for working in Heights, lifting heavy materials, confined spaces, Heavy voltage area can be included in “19ME48E - Industrial Safety Engineering” programme elective course.	Topics were included in “Industrial Safety Engineering” course
4.	Drones and Automated Guided Vehicle (AGV) topics may be added in the “Introduction to robotics” open elective course.	Drones and Automated Guided Vehicle (AGV) is added in “Introduction to robotics”
5.	Stages of PLM, Marketing techniques related PLM, financial aspects of PLM, case studies with specific applications. Application Lifecycle Management (ALM) topics may be included in “Product Lifecycle Management” open elective course.	The topics were included in “Product Lifecycle Management”
6.	The concept of prototyping may be elaborated in “Product Development Laboratory” integrated course.	Incorporated
7.	The robotic specialization courses may be taught effectively by using a Mini robot and robot simulation software.	Yet to be implemented
8.	<p>Credit transfer of open online courses other than NPTEL (like Udemy, Coursera etc.,)</p> <p>a) Students can register the courses from the open online forum (like Udemy, Coursera etc.,) with prior guidelines given by the Dean Academic with the approval of Head of the department.</p> <p>b) For internal marks, continuous assessments can be considered which is conducted by the Udemy, Coursera etc.,</p> <p>c) For external marks, external assessment can be conducted as a separate exam for the selected courses. Before conducting the exam, it is to be ensure that the question</p>	Implemented

ANNEXURE III

List of Board of Examiners approved by Board of Studies

Sl.No	Name of the Expert	Designation	Institutional Address	Contact Details (Mobile No. & Email id)	Experience	Area of Specialization
THERMAL DOMAIN						
1	Dr. M. Udayakumar	Professor, Dept. of Mech. Engg.	National Institute of Technology, Tiruchirapalli	muday@nitt.edu 0431-2503405, 9487257871	35 years	Thermodynamics, I.C.Engines, Combustion, Fluid Power Systems and Control
2	Dr. V. Arul Mozhi Selvan	Associate Professor, Dept. of Mech. Engg	National Institute of Technology, Tiruchirapalli	98949 20835 arulmozhi@nitt.edu	21 years	Nanoparticle Additives, Bio-Fuels, Renewable Energy Technology, Energy Conservation and Management
3	Dr. Babu. S	Associate Professor, Dept. of Mech. Engg	PSG College of Technology, Coimbatore	9865808756 babu.mech@psgtech.ac.in	13 years	Hybrid renewable energy systems, Thermal energy storage with phase change materials, Heat exchanger.
4	Dr. M.Venkata Ramaran	Professor Director, Institute for Energy Studies	CEG, Anna University, Chennai-600025	044-22357755 venkat@annauniv.edu 9444221034		Biomass Gasification, Energy Conservation & Management
5	Dr.K.Srithar	Professor, Dept. of Mech. Engg.	Thiagarajar college of Engineering, Madurai	ponsathya@hotmail.com 9842185302	31 years	Solar Thermal & Heat transfer, Alternate fuel

6	Dr.V.Balasubramani	Associate Professor, Dept. of Mech. Engg.	Thiagarajar college of Engineering, Madurai	vbmech@tce.edu 9843147747	22 Years	Composite Materials and Vibration Analysis
7	Dr.P.Maran	Professor, Dept. of Mech. Engg.	Thiagarajar college of Engineering, Madurai	pmmech@tce.edu 9842120830	28 years	Thermal Science CFD and Applications
8	Dr. S.P.Asok	Professor, Dept. of Mech. Engg.	Mepco Schlenk Engineering College, Sivakasi	asoksp@yahoo.com 9443011358	32 Years	Thermal Engg., Heat and Mass transfer, Refrigeration and Airconditioning
9	Mr. S.Ananthakumar,	Assistant Professor, Dept. of Mech. Engg.	Government College of Engineering, Tirunelveli	ananthakumar@gcetly.ac.in 9791252169	9 years	Thermal Engineering
10	Mr. S.Somesh Subramanian	Assistant Professor, Dept. of Mech. Engg.	Government College of Engineering, Tirunelveli	someshsub@yahoo.co.in 9443909787	9 years	Thermal Engineering
11	Dr.P.Selvakumar	Associate Professor, Dept. of Mech. Engg.	Kongu Engineering College , Erode	selvakumar@kongu.ac.in, selvakumar.mech@kongu.edu 9566341992	20 years	Thermal Engineering, Solar Energy, Heat Transfer, CFD
12	Dr.S.Thirumuruga Veerakumar	Assistant Professor, Dept. of Mech. Engg.	Kumaraguru college of Technology	thirumurugaveerakumar.s.mec@kct.ac.in	15 years	Thermal Analysis on bus bar casing to Benchmark compact structure
13	Dr.K.Arun Balasubramanian	Professor, Dept. of Mech. Engg	Sethu Institute of Technology, Kariapatti	karunbala@sethu.ac.in aarunkab@yahoo.co.in	16 years	I.C Engines

14	Dr.S.Raja kumar	Assistant Professor, Dept. of Mech. Engg.	Anna University Regional Campus – Tirunelveli,	rajkumar1998@yahoo.co.in 9894307215	20 Years	Energy Engineering
15	Dr.A.Manivannan	Assistant Professor, Dept. of Mech. Engg.	Anna University Regional Campus – Tirunelveli,	Manivannan461@gmail.com 8838190761		Energy Engineering
MANUFACTURING DOMAIN						
16	Dr.-Ing. M. Duraiselvam	Professor, Dept. of Production Engineering	National Institute of Technology, Tiruchirapalli	Email: durai@nitt.edu Ph: +91-431-2503509	22 years	Laser cladding, Liquid impact erosion, Synthesis of nano composites, Process optimization
17	Dr. Nanda Naik Korra	Associate Professor, Dept. of Mech. Engg.	National Institute of Technology, Tiruchirapalli	Email: naik@nitt.edu	16 years	Activated Tungsten Inert Gas (A-TIG) Welding Process, Design of Experiments (DoE), Duplex Stainless Steel Alloys
18	Dr. S.Senthilkumaran	Professor, Dept. of Mech. Engg.	CEG, Anna University, Chennai-600025	tel:044-22357745 metrosenk@annauniv.edu		Metal Casting Physical, Metallurgy, Cellular manufacturing Systems
19	Dr. G. Selvakumar	Associate Professor, Dept. of Mech. Engg.	Sri Sivasubramaniya Nadar (SSN) College of Engineering, Kalavakkam, Chennai - 603110	selvakumarg@ssn.edu.in 9489581665	20 years	Advanced Manufacturing Systems & Engineering Management
20	Dr. N. Selvakumar	Senior Professor, Dept. of Mech. Engg.	Mepco Schlenk Engineering College, Sivakasi	9443867775 nselva@mepcoeng.ac.in	32 Years	Industrial Metallurgy, Powder Metallurgy, Nano composites.

21	Dr. S.Saravana Perumaal	Assistant Professor (Aided), Dept. of Mech. Engg.	Thiagarajar college of Engineering, Madurai	sspmech@tce.edu 9944461010	18 years	Manufacturing Engineering,
22	Dr.R.Deivasigamani	Professor, Dept. of Mech. Engg.	Kongu Engineering College, Erode	Email: rdeiva@kongu.ac.in Mobile: 9443504573 Office: 04294-226711	37 years	Manufacturing Engineering
23	Dr.D.Jebakani	Professor (CAS), Dept. of Mech. Engg.	Government College of Engineering, Tirunelveli	jebakani@gcetly.ac.in 9944253810	23 years	Industrial Engineering Optimization, Computer Aided Design, Reliability Quality Engineering
24	Dr.A.Krishnaveni,	Professor (CAS)	Government College of Engineering, Tirunelveli	krishnaveni@gcetly.ac.in 9894182237	21 years	Probabilistic Fracture mechanics, Reliability Analysis, Reliability Based Design
25	Dr. J.Aldrin Raj	Assistant Professor, Dept. of Mech. Engg.	Government College of Engineering, Tirunelveli	aldrin@gcetly.ac.in 9486643388	11 years	Industrial Engg.
26	Dr. M.S.Starvin	Assistant Professor (Sr.Gr), Dept. of Mech. Engg.	University College of Engineering - Nagercoil	9486865043 mstarvin@gmail.com	17 years	Finite Element Analysis, Computational Fluid Dynamics, Contact Mechanics, Tribology, Composite Materials, Fracture Mechanics, Additive Manufacturing

27	Dr.C.Velmurugan	Professor, Dept. of Mech. Engg.	Kumaraguru college of Technology	velmurugan.c.mec@kct.ac.in	25 Years	Composite Materials
28	Dr.P.K.Giridharan	Professor, Dept. of Mech. Engg.	Kumaraguru college of Technology	giridharan.pk.mec@kct.ac.in	24Years	Welding
29	Dr.S.Bhaskar	Associate Professor, Dept. of Mech. Engg	Kumaraguru college of Technology	bhaskar.s.mec@kct.ac.in	20 Years	Industrial Engineering
30	Dr.A.Azhagurajan,	Associate Professor	Mepco Schlenk Engineering College, Sivakasi	aazhagu@mepcoeng.ac.in 9486991085	20 Years	Industrial Safety Engg.
31	Dr. R. A. Malairajan	Assistant Professor & Head i/c	The University V.O.C. College of Engineering Thoothukudi, Anna University	Email : ramalairajan@gmail.com Mobile : 9942394141 Phone : 0461-2310044	16 years	Industrial Engg.
32	Dr.S.Amal Bosco Jude	Assistant Professor	The University V.O.C. College of Engineering Thoothukudi, Anna University	Email : sabjude81@rediffmail.com Mobile : 9894148960 Phone : 0461-2310044	12 years	Manufacturing and Welding.
DESIGN DOMAIN						
33	Dr. N. Siva Shanmugam	Associate Professor, Dept. of Mech. Engg.	National Institute of Technology, Tiruchirapalli	Mobile: 9443649278 nsiva@nitt.edu	10 years	Finite Element Method, Bio- Mechanics, Machine Design
34	Dr. A. Elaya Perumal	Professor Head, Engineering Design Division	CEG, Anna University, Chennai-600025	044-22357738 profelaya@annauniv.edu		Composite Materials and Mechanics, Vibration Analysis and Control, Nano Science

						and Engineering, Surface Engineering, Design of Machine Elements
35	Dr. G.Shibu	Associate Professor, Engg. Design division	CEG, Anna University, Chennai-600025	044-22357647 shibu@annauniv.edu		Machine Design, Applied Mechanics, Mechanism
36	Dr.G.Sureshkannan	Associate Professor, Dept. of Mech. Engg.	CIT, Coimbatore	sureshkannan@cit.edu.in 91-9600736007		Finite element analysis, Optimization for engineering design, Theory of machines
37	Dr.J.Selwin Rajadurai	Professor	Government College of Engineering, Tirunelveli.	9442093691 selwinrajadurai@gmail.com	24 years	Design, Composites
38	Dr. T.Prem Singh Inbaraj	Assistant Professor (RD)	Government College of Engineering, Tirunelveli	premsingh@gcetly.ac.in 9345737511	16 years	CAD/CAM
39	Dr.S.Rajakarunakaran	Professor & HOD, Dept. of Mech. Engg.	Ramco Institute of Technology, Rajapalayam	rajarunakaran@ritrjpm.ac .in 9865312352	30 years	Fault diagnosis, Condition Monitoring, Multi Criteria Optimization
40	Dr.P.Navaneethakrishnan	Professor & HOD, Dept. of Mech. Engg.	Kongu Engineering College, Erode	Email: pnk@kongu.ac.in , Mobile: 9842950323 Office: 04294-226710	28 years	Engineering Design
41	Dr.V.Hariharan	Professor, Dept. of Mech. Engg.	Kongu Engineering College, Erode	Email: hariharan@kongu.ac Mobile: 9443504469 Office: 04294-226712	29 years	Vibration Analysis, Condition Monitoring

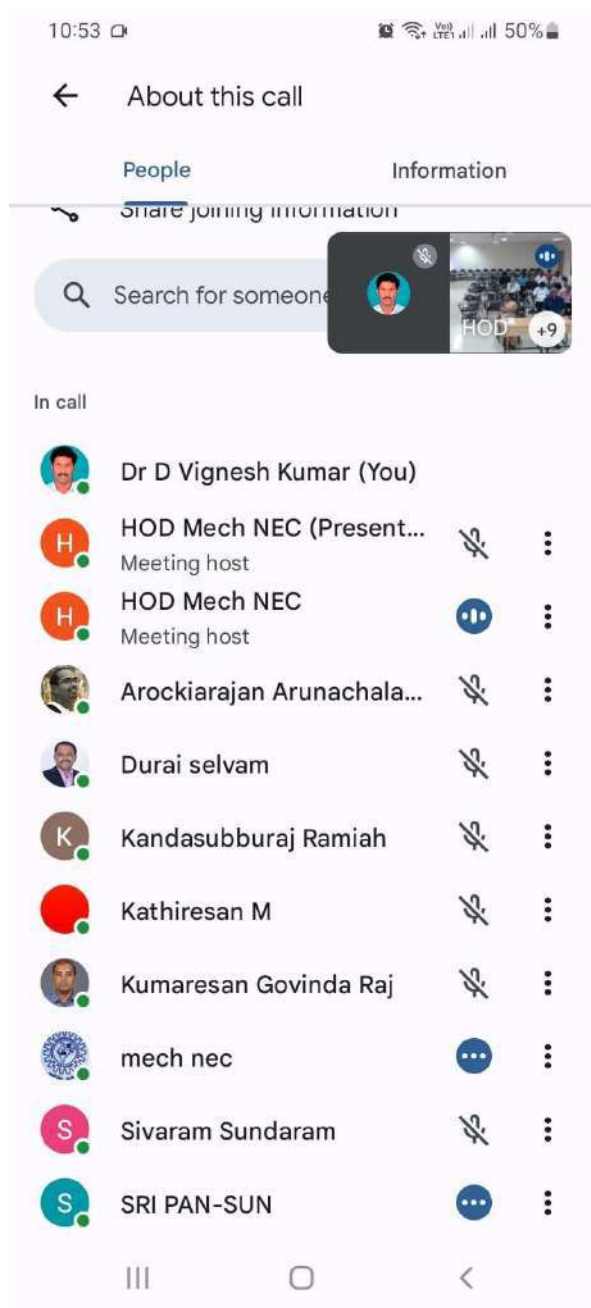
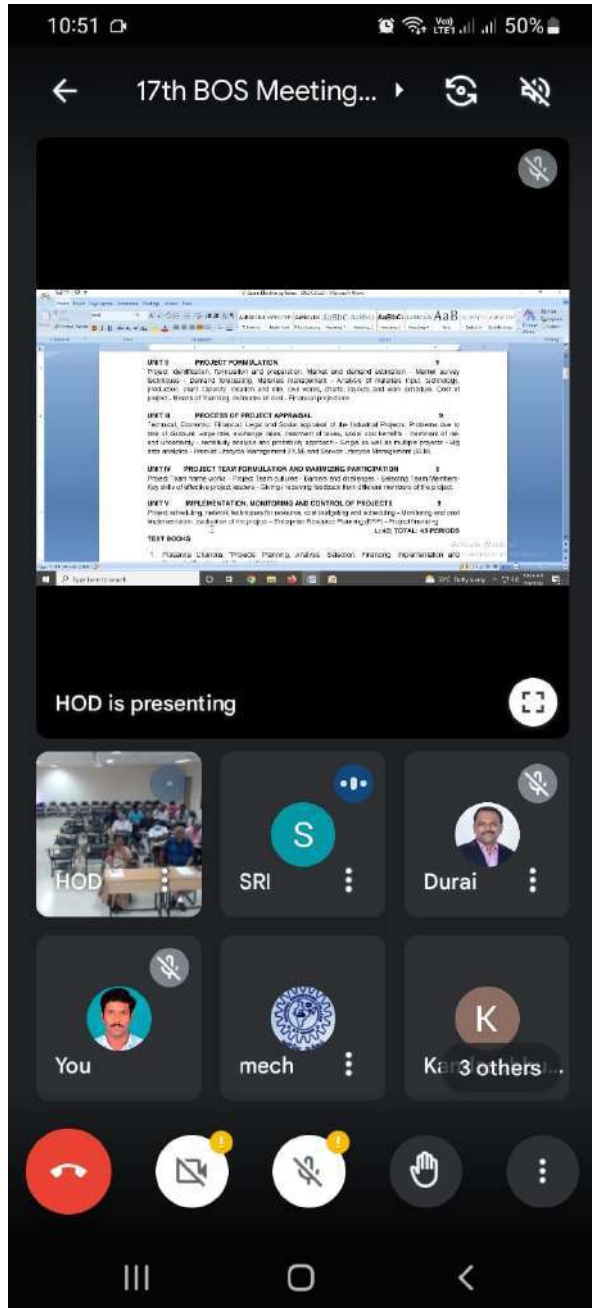
42	Dr.A.Vasanthanathan	Associate Professor, Dept. of Mech. Engg.	Mepco Schlenk Engineering College, Sivakasi	vasanthan@mepcoeng.ac.in 9894781354	20 Years	Finite Element Analysis, Fibre Reinforced Plastics
43	Dr. R. Murali Kannan	Professor, Dept. of Mech. Engg.	AAA College of Engineering, Virudhunagar	muralikannan6@gmail.com 9486140536	17 years	CAD/CAM
44	Dr.P.Sathyabalan	Professor, Dept. of Mech. Engg.	Kumaraguru college of Technology	sathyabalan.p.mec@kct.ac.in	15 Years	Engineering Design
45	Dr.Prabhu Raja. V	Professor, Dept. of Mech. Engg.	PSG College of Technology, Coimbatore	vpr.mech@psgtech.ac.in	25 years	Machin Design, Finite Element Analysis, High Speed Machining
46	Dr. M.Elango	Assistant Professor, Dept. of Mech. Engg.	Thiagarajar college of Engineering, Madurai	memech@tce.edu	28 years	Computer Aided Design

h.u-m

CHAIRMAN

BOARD OF STUDIES

**17th BOARD OF STUDIES MEETING – Department OF Mechanical Engineering On
09.07.2022**



Department of Electronics and Communication Engineering

MINUTES of 17th Meeting of the Board of Studies was held on
2nd July 2022 at 10.00 AM

Venue: Conference Hall, National Engineering College
K.R.Nagar, Kovilpatti – 628503 (Through Google Meet:
<https://meet.google.com/yaw-oren-zdx>)

Department of Electronics and Communication Engineering
National Engineering College, K.R.Nagar, Kovilpatti– 628503
(An Autonomous Institution -Affiliated to Anna University, Chennai)
www.nec.edu.in

17th Board of studies Meeting of the Department of
Electronics and Communication Engineering

Venue: Conference Hall, National Engineering College
K.R.Nagar, Kovilpatti – 628503 (Through Google Meet:
<https://meet.google.com/yaw-oren-zdx>)

Date & Time: 02.07.2022 & 10.00 AM

AGENDA

ECE/BoS 17.1	:	Welcome address and Opening Remarks by Chairman, Board of studies of the Department of Electronics and Communication Engineering
ECE/BoS 17.2	:	Confirmation of the Minutes and action taken report of the 16 th Board of studies meeting of the Department of Electronics and Communication Engineering held on 27 th November 2021.
ECE/BoS 17.3	:	Business brought forward by the Chairman, Board of studies 17.3.1. Additional Elective courses for UG degree programme under R-2019. 17.3.2. Approval for list of examiners for project viva voce examinations
ECE /BoS 17.4	:	Suggestions given by the BoS Members

National Engineering College, K.R. Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
www.nec.edu.in

F. No. 1-1/NEC/Branch/ECE

2nd July, 2022

Dear Sir/Madam,

Sub: Minutes of the 17th Board of Studies Meeting of Department of Electronics and Communication Engineering - Reg.

The 17th Board of studies Meeting of Electronics and Communication Engineering department of National Engineering College, K.R.Nagar, Kovilpatti – 628 503 was held on 2nd July 2022 at 10.00 AM at the conference hall of National Engineering college through google meet. Thank you for attending the meeting and giving valuable suggestions. The minutes of the meeting is attached herewith.

Kindly go through the minutes and give your remarks if any. Please acknowledge the receipt of this mail and approve the minutes if there is no comments from your end.

Thanking You,

Yours Sincerely


(Dr.A.Shenbagavalli)

National Engineering College, K.R.Nagar, Kovilpatti – 628 503

(An Autonomous Institution - Affiliated to Anna University, Chennai)

www.nec.edu.in

Department of Electronics and Communication Engineering

MINUTES OF THE MEETING

The 17th Meeting of Board of studies of the Department of Electronics and Communication Engineering was held on 2nd July, 2022 at 10.00 AM in the Conference Hall of the National Engineering College, K.R.Nagar, Kovilpatti– 628503.

The Board of Studies members are as follows,

1.	Dr.A.Shenbagavalli Professor & Head	Chairman
2.	Dr.S.Shanmugavel, Senior Prof, Director	Internal Members
3.	Dr. S.Tamilselvi, Professor	
4.	Dr.V.Vijayarangan, Professor	
5.	Dr. V.R.S.Mani, Asso. Prof (SG)	
6.	Dr.N.Arumugam, Asso Prof	
7.	Dr.V.Suresh, Asso. Prof	
8.	Dr. T.S.Arun Samuel, Professor	
9.	Mr.T.Deva Kumar, AP (SG)/ECE	
10.	Dr. T.Vijayanandh, Asst. Prof (SG)	
11.	Dr. K.J.Prasanna Venkatesan, Asst. Prof (SG)	
12.	Dr. A.Saravana Selvan, Asst. Prof (SG)	
13.	Mr. S.Cammillus, Asst. Prof (SG)	
14.	Mr. C.Balamurugan, Asst. Prof (SG)	
15.	Mr. K.Subramanian, Asst. Prof (SG)	
16.	Mrs. R.Manjula Devi, Asst. Prof (SG)	
17.	Mr. M.Sathish Kumar, Asst. Prof (SG)	
18.	Mr.I.Vivek Anand, Asst. Prof (SG)	
19.	Dr.I.Paulkani, Asst. Prof	
20.	Mr.C.Rajkumar, Adjunct faculty	

21.	Dr. M. Meenakshi, Professor, Department of ECE, College of Engineering, Guindy Campus, Chennai.	Academic Experts
22.	Dr.M.Ganesh Madhan, Professor, Department of ECE, Madras Institute of Technology, Anna University, Chennai.	
23.	Dr.R.Pandeeswari, Associate Professor, Department of ECE, NIT, Trichy.	Meritorious Alumnus
24.	Mr. S. Kaliraj, Director, Vlinder Labs Pvt Ltd, Bangalore.	
25.	Mr.Raja Subramanian , Senior Architect, Mistral Solutions Pvt Ltd ,Bangalore.	Industrial Experts
26.	Mr.K.A.Irshadh Abdul Rasheed Associate Partner Cyber Security, Ernst And Young LLP, Chennai.	Special Invitee
27.	Mr.Dinakaran.B.L, Principal Engineer, MaxLinear, Bangalore.	
28.	Mr.S.Madhusudhan, Co-founder, Vlinder labs pvt ltd, Bangalore	
29.	Ms.A. Subitsha, III Year ECE	Student Members
30.	Mr.Lokeshdurai, III Year ECE	
31.	Ms.Mithra Sri, III Year ECE	
32.	Mr.Ganapathy, III Year ECE	







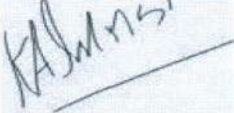
BoS/ECE17.1	:	WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES OF THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
		The Chairman, BoS of the department of Electronics and Communication Engineering welcomed and introduced the members of the 17 th Board of Studies.
BoS/ECE 17.2	:	TO CONFIRM THE MINUTES OF SIXTEENTH BOS MEETING HELD ON 27 th NOVEMBER 2021.
		<p>The minutes of the sixteenth Board of Studies meeting held on 27th November 2021 were communicated to the members. The comments received have been properly analyzed and corrections have been carried out in the syllabus. Then it was presented in 16th Academic Council meeting held on 9th DEC 2021 and the same was approved.</p> <ul style="list-style-type: none"> • Action Taken Report (Enclosed in <u>Annexure I</u>)
BoS/ECE17.3.1	:	Approval for additional Elective Courses for UG Degree Programme Under R-2019
		Resolved to approve the additional elective courses for UG Degree Programme Under R-2019.
BoS/ECE17.3.2	:	<p>Approval for list of examiners for project viva voce examinations</p> <p>Resolved to approve the list of examiners for project viva voce examinations for UG Degree Programme Under R-2019.</p>
BoS/ECE 17.4	:	SUGGESTIONS GIVEN BY THE BOS MEMBERS
17.4.1	:	The expert members from Vlinder Labs Pvt.Ltd, Bangalore suggested and involved in framing Blockchain and Applications elective course under R2019. In this elective course, the practical sessions can be included and this course may be defined as an Integrated course (Theory + Lab).
17.4.2	:	The elective course “Professional readiness for innovation, employability and entrepreneurship” is introduced by Anna University to all affiliated colleges.

The members had a brainstorming discussion and interaction among themselves. Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

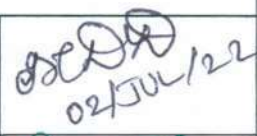



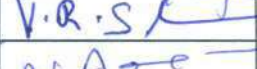




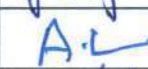
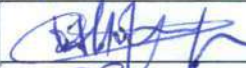





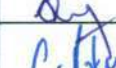
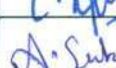
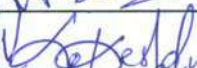
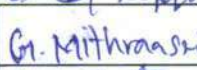



1. Additional Elective courses, One credit courses and Open Elective courses for UG degree programmes under R-2019
2. To get approval for list of examiners for project viva voce examinations

Dr.I.Paulkani, Assistant Professor / ECE thanked all the members for their kind cooperation and the meeting came to an end.

Members Present Online:

S.No	BOS Members	Signature
1.	Dr. A. Shenbagavalli Professor & Head, Department of ECE, National Engineering College, Kovilpatti.	
2.	Dr.M.Meenakshi Professor, Dept. of ECE, College of Engineering, Guindy Campus, Chennai - 600025	
3.	Dr. M.Ganesh Madhan Professor, Dept. of ECE, Madras Institute of Technology campus, Anna University, Chennai – 600044.	 Dr. M. GANESH MADHAN, M.E., Ph.D. Professor Department of Electronics Engineering Anna University, MIT Campus Chennai, Chennai - 600 044
4.	Dr.R.Pandeeswari Associate Professor Department of ECE NIT, Trichy.	
5.	Mr.S.Madhusudhan, Co-founder, Vlinder Labs Pvt Ltd, Bangalore.	 For VLINDER LABS PRIVATE LIMITED. S. Madhusudhan Director
6.	Mr.Raja Subramanian Senior Architect, Mistral Solutions Pvt Ltd Bangalore	
7.	Mr.K.A.Irshadh Abdul Rasheed Associate Partner Cyber Security Ernst And Young LLP, Chennai	

Members Present Off line:

1.	Mr.Dinakaran.B.L, Principal Engineer, MaxLinear, Bangalore.	 02/JUL/22
2.	Dr.S.Shanmugavel, Senior Prof, Director	
3.	Dr. S.Tamilselvi, Professor	 25/7/22
4.	Dr.V.Vijayarangan, Professor	
5.	Dr. V.R.S.Mani, Asso. Prof (SG)	 V.R.S.Mani
6.	Dr.N.Arumugam, Asso Prof	 N.A
7.	Dr.V.Suresh, Asso. Prof	 V.Suresh
8.	Dr. T.S.Arun Samuel, Professor	 T.S.Arun Samuel
9.	Dr. T.Vijayanandh, Asst. Prof (SG)	 T.Vijayanandh
10.	Dr. K.J. Prasanna Venkatesan, Asst. Prof (SG)	 K.J. Prasanna Venkatesan
11.	Dr. A.Saravana Selvan, Asst. Prof (SG)	 A.Saravana Selvan
12.	Mr. S.Cammillus, Asst. Prof (SG)	 S.Cammillus
13.	Mr. C.Balamurugan, Asst. Prof (SG)	 C.Balamurugan
14.	Mr. K.Subramanian, Asst. Prof (SG)	 K.Subramanian
15.	Mrs. R.Manjula Devi, Asst. Prof (SG)	 R.Manjula Devi
16.	Mr. M.Sathish Kumar, Asst. Prof(SG)	 M.Sathish Kumar
17.	Mr.I.Vivek Anand, Asst. Prof (SG)	 I.Vivek Anand
18.	Dr.I.Paulkani, Asst. Prof	 I.Paulkani
19.	Mr.C.Rajkumar, Adjunct faculty	 C.Rajkumar
20.	Ms.A.Subitsha, III Year ECE	 A.Subitsha
21.	Mr.Lokeshdurai, III Year ECE	 Lokeshdurai
22.	Ms.Mithra Sri, II year ECE	 Mithra Sri
23.	Mr.Ganapathy, II Year ECE	 Ganapathy


CHAIRMAN

BOARD OF STUDIES

17th BOARD OF STUDIES MEETING – DEPARTMENT OF ECE ON 02.07.2022

The screenshot shows a Zoom meeting in progress. The main window displays a slide titled "AGENDA OF 17th BOS MEETING" with the following items:

1. Minutes of 16th BOS Meeting ([Link](#))
 > Action taken Report ([Link](#))
2. Additional Elective courses, One credit courses, Open Elective courses for UG degree programmes under R-2019
3. To get approval for list of examiners for project viva voce examinations
4. Any other matter

The slide is presented in a Beamer format within a presentation software window. To the right of the slide, a grid of participant avatars is visible, including Meenakshi M, Dr. Pandeeswari Ra..., Dr. Ganesh Madhan, Raja Subramanian N, Madhusudhan Srin..., Sathishkumar .M, and You. A small video thumbnail for 'arunsamuel ece' is also present.

This screenshot shows a Google Drive viewer interface for a video file named "BOS Meeting 02.07.2022.mkv". The video player displays a recording of the meeting, showing a slide with the text:

PROFESSIONAL READINESS FOR
INNOVATION, EMPLOYABILITY AND
ENTREPRENEURSHIP

The video player interface includes a progress bar at the bottom showing 43:41 / 50:26. The background of the viewer shows a Windows taskbar with various application icons and a system tray with the date and time: 14:18, 07-07-2022.

Department of Computer Science and Engineering

MINUTES of 17th Meeting of the Board of Studies held on
9th July, 2022 at 10.30 AM

Meeting Mode: Through Hybrid mode - offline and online (Webex meeting)
Venue: CSE seminar Hall, National Engineering College
K.R.Nagar, Kovilpatti – 628 503

Webex Meet link: <https://nec4962.webex.com/nec4962/j.php?MTID=m02637384fb39fdd864ddb5b1a9406e1>

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**17th Board of Studies Meeting in the Department of
Computer Science and Engineering**

Meeting Mode: Through Hybrid mode - offline and online (Webex Meet)

Venue: CSE Seminar Hall, National Engineering College

K.R.Nagar, Kovilpatti – 628 503

Webex Meet link: <https://nec4962.webex.com/nec4962/j.php?MTID=m02637384fb39fdd864ddb5b1a9406e1>
Date & Time: 09.07.2022 & 10.30 AM

Agenda

- BoS / CSE 17.1 : Welcome address and Opening Remarks by Chairman, Board of Studies in the department of Computer Science and Engineering
- BoS / CSE 17.2 : Confirmation of the Minutes of the 16th meeting of Board of studies in the department of Computer Science and Engineering held on 27th November 2021 and Action taken report of 16th meeting of Board of studies
- BoS / CSE 17.3 : Business brought forward by the Chairman, Board of studies
- 17.3.1. New one credit courses for B.E-CSE under R2019.
- 17.3.2. Refinement of existing courses for B.E-CSE and M.E –CSE under R2019.
- 17.3.3. Anna University - MANDATORY ELECTIVE course – (Professional Readiness for Innovation, Employability and Entrepreneurship).
- 17.3.4. List of Examiners for project Viva voce Examinations.
- BoS / CSE 17.4 : Any other items.
- BoS / CSE 17.5 : Suggestions given by the BoS Members

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
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F. No. 1-1/NEC/CSE

9th July, 2022

Dear Sir,

Sub: Minutes of the 17th Meeting of the Board of studies in the Computer Science and Engineering -Reg.

Kindly find attached herewith the Minutes of the 17th Meeting of Board of studies of the Computer Science and Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 9th July 2022 at 10.30 AM through hybrid mode - offline and online (Webex meet) in the CSE Seminar hall of National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

It is requested that comments on the Minutes, if any, may please be sent by email at hodcse@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the minutes shall be taken as confirmed. With Kind Regards,

Yours Sincerely


Dr. V. Gomathi

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
www.nec.edu.in

Department of Computer Science and Engineering

MINUTES OF THE MEETING

The 17th Meeting of the Board of studies of the Computer Science and Engineering was held on 9th July, 2022 at 10.30 AM through hybrid mode -offline and online Google Meet in the CSE Seminar Hall of National Engineering College.

The following members were present in the seminar hall

1.	Dr.V.GOMATHI Professor & Head	Chairman
2.	Dr.D.Manimegalai, Professor& COE	Internal BoS members
3.	Dr.V.Kalaivani, Professor	
4.	Dr.K.MohaideenPitchai, Professor	
5.	Dr.J.Naskath, Assistant Professor (SG)	
6.	Ms.R.Rajakumari, Assistant Professor (SG)	
7.	Mr.D.Vijayakumar,Assistant Professor (SG)	
8.	Dr.G.Sivakamasundari, Assistant Professor (SG)	
9.	Ms.G.R.Hemalakshmi, Assistant Professor (SG)	
10.	Dr.V.Anusuya Devi ,Assistant Professor(SG)	
11.	Dr. C. Mala Professor, Dept. of Computer Science and Engineering, National Institute of Technology Trichy, Trichy.	Academic Expert
Experts attended the meeting Online(Webex Meet)		
12.	Dr. K. S. Easwarakumar Professor, Dept. of Computer Science and Engineering, CEG Campus Anna University, Chennai.	Anna university Nominee
13.	Dr. C.Krishna Mohan Professor & Head Dept. of Computer Science and Engineering, Indian Institute of Technology Hyderabad, Hyderabad.	Academic Expert
14.	Mr.Roy Antony Arnold, Lead - Education and Research, Infosys Pvt Ltd.,	Industrial Experts

15.	Mr.D.Siddharthan, Delivery Manager, Wipro Technologies Pvt. Ltd, Chennai.	
16.	Ms.G.Maria Justin Mary Lead S/W Engineer, Lowe's India, Bangaluru.	Alumni and Industrial Expert
17.	Ms. Suji S, III year CSE.	Student Members Nominated by the HOD
18.	Mr. Narain C A, III year CSE.	

Dr.G.R.Karpagam, Professor, Dept. of Computer Science and Engineering, PSG College of Technology, Coimbatore, Dr.G.Kousalya, Professor & Head of the Department, Dept. of Computer Science and Engineering, Coimbatore Institute of Technology, Mr.Srinivasan Rajendren, Service Delivery Manager, Tata Consultancy Services, Chennai and Mr.Manikanda Raman Viswanathan, Director, Cognizant Digital Operations, CTS, Chennai could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence.

BoS / CSE 17.1	:	WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
		The Chairman, BoS of the Computer Science and Engineering welcomed and introduced the members of 17 th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.
BoS / CSE 17.2	:	TO CONFIRM THE MINUTES OF 16 th BOS MEETING HELD ON 27 th November, 2021
		The minutes of the 16 th Board of Studies meeting held on 27 th November 2021 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 16 th Academic council. ➤ Action Taken Report (Enclosed in Annexure I)

BoS/CSE 17.3.1	<p>: TO CONFIRM AND APPROVE OF NEW ONE CREDIT COURSES FOR B.E CSE PROGRAMME UNDER R2019</p> <p>RESOLVED TO approve new one credit courses for B.E-CSE programme under R2019</p>
BoS/ CSE 17.3.2	<p>: TO CONFIRM AND APPROVE OF REFINEMENT OF EXISTING COURSES FOR B.E-CSE AND M.E – CSE UNDER R2019</p> <p>RESOLVED TO approve refinement of existing courses for B.E-CSE and M.E –CSE UNDER R2019</p>
BoS/ CSE 17.3.3	<p>: TO CONFIRM AND APPROVE OF Anna University - MANDATORY ELECTIVE course – (Professional Readiness for Innovation, Employability and Entrepreneurship) FOR B.E-CSE UNDER R2019</p> <p>RESOLVED TO approve Anna University - MANDATORY ELECTIVE course for B.E-CSE under R2019</p>
BoS/ CSE 17.3.4	<p>: TO CONFIRM AND APPROVE LIST OF EXAMINERS FOR PROJECT VIVA VOCE EXAMINATIONS B.E-CSE and M.E- CSE UNDER R2019</p> <p>RESOLVED TO approve list of examiners for project viva voce examinations B.E-CSE and M.E- CSE UNDER R2019</p>
BoS/CSE 17.4	<p>: ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS</p> <p>On the whole, this new initiative was very much appreciated by all members. The challenges faced by the students (if any)</p>

		should be periodically discussed with them. They also congratulated the faculty members for their team efforts towards continuing Education.
BoS / CSE 17.5	:	SUGGESTIONS GIVEN BY THE BOS MEMBERS
17.5.1	:	Microprocessor and Micro controller theory and Lab courses may be included in the B.E CSE under regulation 2019.
17.5.2	:	High-resolution monitor may be purchased for practicing the Augmented Reality for developer's course exercises.
17.5.3	:	In 19CS30E - Advanced Java Programming course, Java Server Pages unit contents may be reduced, course contents may be taught with the demonstration and Spring Boot may be included in unit 3.
17.5.4	:	In the 19CS29L Full stack development course, a mini-project may be included.
17.5.5	:	In 19CT21C Advanced algorithms course, pre-request, Data structures and Algorithms may be included and the textbook "Parallel computation: models and methods" by Selim G.Aki may be included.

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Syllabi.

Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- New one credit courses for B.E- CSE under R2019.
- Refinement of existing courses for B.E-CSE and M.E-CSE under R2019.
- List of Examiners for project Viva voce Examinations.
- Anna University – MANDATORY ELECTIVE course.

Dr.V.Kalaivani Professor ,thanked all the members for their valuable suggestions and cooperation and the meeting came to an end.

Members Present

Dr.V.Gomathi Chairman	V. C 9/7/22
<i>Internal Members</i>	
Dr.D.Manimegalai Professor	D. M
Dr.V.Kalaivani Professor	V. Kalaivani
Dr.K.MohaideenPitchai Professor	K. Mohaideen Pitchai
Dr.J.Naskath Assistant Professor (SG)	J. Naskath
Ms.R.Rajakumari Assistant Professor (SG)	R. Rajakumari
Mr.D.Vijayakumar Assistant Professor (SG)	D. Vijayakumar
Dr.G.Sivakamasundari Assistant Professor (SG)	G. Sivakamasundari
Ms.G.R.Hemalakshmi Assistant Professor (SG)	G. R. Hemalakshmi
Ms.V.Anusuya Devi Assistant Professor(SG)	V. Anusuya Devi
<i>Academic Experts</i>	
Dr. C. Mala, Professor, Dept. of Computer Science and Engineering, National Institute of Technology, Tiruchirappalli	C. Mala 9/7/22

Experts attended the meeting by Online <i>Anna University Nominee</i>
Dr. K. S. Easwarakumar Professor, Dept. of Computer Science and Engineering, CEG Campus, Anna University, Chennai
Academic Experts
Dr. C.Krishna Mohan Professor & Head, Dept. of Computer Science and Engineering, Indian Institute of Technology Hyderabad, Hyderabad.
Dr.G.R.Karpagam Professor, Dept. of Computer Science and Engineering, PSG College of Technology, Avinashi Road, Peelamedu, Coimbatore.
Industrial Experts
Mr.SrinivasanRajendren Service Delivery Manager, Tata Consultancy Services, Chennai.
Mr.D.Siddharthan, Delivery Manager, Wipro Technologies Pvt. Ltd, Chennai.
Mr.Roy Antony Arnold, Lead - Education and Research, Infosys Pvt Ltd., Chennai.
Adjunct faculty and Alumni
Mr.Manikanda Raman Viswanathan Director, Cognizant Digital Operations, CTS, Chennai.
Alumni
Mrs.G.Maria Justin Mary Lead S/W Engineer, Lowe's India, Bangaluru
Student Members Nominated by the HOD
Ms. Suji S, III year CSE
Mr. Narain C A, III year CSE


 CHAIRMAN 9/17/22
 BOARD OF STUDIES

Annexure I

Action Taken Report for Minutes of 16th BOS

As per BOS committee suggestions,

- NPTEL courses are mandatory for B.E and M.E students. 50% Success is achieved in Completion of NPTEL courses.
- 19CS36C - Software Engineering Methodologies, 19CS15E-Artificial Intelligence, 19CS28L- Python for Machine Learning courses, COs are refined.
- 19CS66C- Product Development Laboratory course contents has been revised.
- 19CS51C- Java Programming course has been refined as per new trends in industries.


CHAIRMAN
BOARD OF STUDIES

17th BOARD OF STUDIES MEETING – DEPARTMENT OF CSE ON 09.07.2022

The screenshot shows a Webex meeting interface. The main content is a slide titled "BOS MEMBERS" with the following list of members:

- Mr.Roy Antony Arnold**
Lead - Education and Research, Infosys.Pvt Ltd., Chennai.
- Mr.Srinivasan Rajendren**
Service Delivery Manager, TCS, Chennai.
- Mr.D.Siddharthan**
Delivery Manager, Wipro Ltd., Chennai.
- Ms.G.Maria Justin Mary**
Lead S/W Engineer, Lowe's India, Bangaluru.
- Mr. V. Manikanda Raman**
Director, CTS, Chennai.

The slide also includes the Department of CSE logo and the date 9 Jul 22. The meeting participants visible in the top bar are Gomathi NEC, Sivakomasundari, Dhenoa, Dr.V.Kalaivani, and Mohaideen Pitchai. The bottom bar shows the Windows taskbar with the time 10:38 AM on 7/9/2022.

The screenshot shows a Webex meeting interface. The main content is a slide titled "MINUTES of 16th BOS MEETING (27.11.2021)" with the following bullet points:

- List of courses for B.E. specialization in Artificial Intelligence & Machine Learning are appreciated by Anna University nominee and commented that syllabus is fine.
- One or two NPTEL courses may be mandatory for B.E. specialization courses.
- Two new elective courses such as 19CT28E-Vehicular adhoc networks, 19CT29E-Cloud management and security are introduced in M.E-CSE under R2019.
- One credit course, 19CS30L Microprocessor and microcontroller is introduced in the B.E-CSE under R2019.
- End semester examinations reforms are presented.

The slide also includes the Department of CSE logo and the date 9 Jul 22. The meeting participants visible in the top bar are Gomathi NEC, Sivakomasundari, Dhenoa, Dr.V.Kalaivani, Mohaideen Pitchai, and naskath. The bottom bar shows the Windows taskbar with the time 10:41 AM on 7/9/2022.

Department of Electrical and Electronics Engineering

**MINUTES 17th Meeting of the Board of studies held on
20th July 2022 at 10.00 AM**

Meeting Mode: Hybrid Mode

Venue: Conference Hall, National Engineering College

Cisco Webex Meet Link: <https://nec4962.webex.com/nec4962/j.php?MTID=m22a5e55f8c03cee07ebea81c1800b422>

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Department of Electrical and Electronics Engineering

National Engineering College, K.R.Nagar, Kovilpatti- 628503

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17th Board of studies Meeting in the Department of Electrical and Electronics Engineering

Meeting Mode: Hybrid Mode

Venue: Conference Hall, National Engineering College

Cisco Webex Meet Link: <https://nec4962.webex.com/nec4962/j.php?MTID=m22a5e55f8c03cee07ebee81c1800b422>

Date & Time: 20.07.2022 & 10.00 AM

AGENDA

- BoS / EEE 17.1 : Welcome address and Opening Remarks by Chairman, Board of studies in the Department of Electrical and Electronics Engineering
- BoS / EEE 17.2 : Confirmation of the Minutes of the 16th meeting of Board of Studies in the Department of Electrical and Electronics Engineering held on 29th November 2021, and Action Taken report of 16th meeting of Board of studies
- BoS / EEE 17.3 : Business brought forward by the Chairman, Board of studies
- 17.3.1 Syllabus for Programme Elective Courses - UG B.E. (EEE) under Regulation R2019
- 17.3.2 Syllabus for One Credit Elective Courses - UG B.E. (EEE) under Regulation R2019
- 17.3.3 Any other items
- BoS / EEE 17.4 : Any other items
- BoS / EEE 17.5 : Suggestions given by the BoS Members

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F. No. 1-1/NEC/EEE.

20th July, 2022

Dear Sir/Madam,

Sub: Minutes of the 17th Meeting of the Board of studies in the EEE-Reg.

Kindly find attached herewith the Minutes of the 17th Meeting of Board of studies of the Electrical and Electronics Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 20th July, 2022 at 10.00 AM in National Engineering college, through hybrid mode. Hard copy of the Minutes is also being sent to you by speed post.

It is requested that comments on the Minutes, if any, may please be sent by email at hodeee@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed. With Kind Regards,

Yours Sincerely


Dr. M. Willjuice Iruthayarajan

Dr. M. WILLJUICE IRUTHAYARAJAN, ME., Ph.D.
Professor & Head
Department of Electrical & Electronics Engg.
National Engineering College
Kovilpatti - 628 503

Department of Electrical and Electronics Engineering

MINUTES OF THE MEETING

The 17th Meeting of the Board of studies of the Electrical and Electronics Engineering was held on 20th July, 2022 at 10.00 AM in National Engineering College, through hybrid mode.

Venue: Conference Hall, National Engineering College

Cisco Webex Meet Link: <https://nec4962.webex.com/nec4962/j.php?MTID=m22a5e55f8c03cee07e8ea81c1800b422>

The following members were present:

1.	Dr.M.Willjuice Iruthayarajan Professor and Head/ EEE	Chairman
2.	Dr.L.Kalaivani Professor/ EEE	Internal Members
3.	Dr.R.V.Maheswari Professor/ EEE	
4.	Dr.M.Ravindran Associate Professor (S.G) / EEE	
5.	Dr.N.B.Prakash Associate Professor / EEE	
6.	Dr.M.P.E.Rajamani Assistant Professor(S.G) / EEE	
7.	Dr.S.Dharmalingam, Adjunct Faculty/EEE	Academic Expert
8.	Dr. V. Suresh Kumar, Professor, Department of Electrical and Electronics Engineering, Thiagarajar College of Engineering, Madurai, Tamilnadu.	
9.	Dr. Rajesh Joseph Abraham Associate Professor, Department of Avionics, Indian Institute of Space Science and Technology, Valiamala P.O., Thiruvananthapuram, Kerala.	Industrial Expert
10.	Dr. Santosh Kumar Annadurai GE T&D Ltd., GIS R&D Centre, Unit R&D Head, Padappai, Chennai.	
11.	Dr. Hariram Satheesh, Principal Scientist, ABB Global Industries and Services Ltd, Bangalore.	
12.	Mr. M. Ramesh Senior Technical Engineer,	

	Hardware Design and Development, Data Patterns India Pvt. Ltd., Chennai.	
13.	Mr. J. S. Jekhan, Third Year / EEE	Student Members
14.	Ms. J. Joyslin Janet, Third Year / EEE	

The University Nominee Dr.S.Usa, Professor, Department of EEE, CEG Campus, Anna University Chennai, Industrial Experts Dr.S.Paramasivam, R&D Head, Electrical Drives, Danfoss Industries Ltd, Chennai, Mr.R. Jayakumar, Engineering Leader, Altimetrik Pvt, Ltd., Chennai & Mr.S.Subramanian, Senior Maintenance Engineering (I), Kudankulam Nuclear Power Project, Kudankulam, could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence.

BoS / EEE 17.1	:	WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
		The Chairman, BOS of the Electrical and Electronics Engineering welcomed and introduced the members of 16 th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.
BoS / EEE 17.2	:	TO CONFIRM THE MINUTES OF SIXTEENTH BOS MEETING HELD ON 29 th NOVEMBER 2021
		The minutes of the Sixteenth Board of Studies meeting held on 29 th November 2021 were communicated to the members vide letter No. F. No. 1-1/NEC/EEE, Dated 29.11.2021. The comments received have been incorporated and placed for confirmation. The same was approved by the 15 th Academic council. <u>Action Taken Report</u> (Enclosed in Annexure I)
BoS / EEE 17.3.1	:	TO CONFIRM AND APPROVE THE SYLLABUS OF PROGRAMME ELECTIVE COURSES FOR UG (B.E. – EEE) PROGRAMME UNDER R-2019
		RESOLVED TO approve the syllabus of programme elective

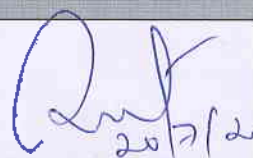
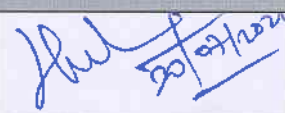
		courses for UG (B.E. – EEE) PROGRAMME under R–2019.
Bos/EEE 17.3.2	:	TO CONFIRM AND APPROVE THE SYLLABUS OF ONE CREDIT ELECTIVE COURSE FOR UG (B.E. – EEE) PROGRAMME UNDER R–2019
		RESOLVED TO approve the syllabus of One Credit Elective courses for UG (B.E. – EEE) PROGRAMME under R–2019.
Bos/EEE 17.4	:	ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS
17.4.1	:	The BoS members insisted the BoS EEE chairman to include immediate or near passed out alumni for BoS meeting. They told that alumni's are the most important evaluators of an outcome-based curriculum because only they can match their experience of the curriculum against the demands of their current roles.
Bos/EEE 17.5	:	SUGGESTIONS GIVEN BY THE BOS MEMBERS
17.5.1	:	In the course, "Industrial Electrical Systems" content related to hybrid lighting, and light pollution may be included. Diesel Generator may be included in Unit-V.
17.5.2	:	In the course, "Switched Mode Power Conversion", performance parameters may be included in Unit – II & III.
17.5.3	:	In the course, "Electrical Energy Conservation and Auditing" Unit- II & III titles may be modified. Lighting applications related to domestic loads may be included.
17.5.4	:	In the course, "Solar Photovoltaic Fundamentals and Applications" the title of the course may be changed. Design

		and implementation of solar photovoltaic in domestic applications, agriculture etc, may be included.
17.5.5	:	In the course, "Smart Grid" Unit-V title may be changed. Standards of protocols may be included. Contents such as IP based Protocols, basics of web service, cloud computing - and cyber security issues may be included in syllabus.
17.5.6	:	In the course, "Power Generation Systems", case study in Unit-V may be given. Content related to hydrogen fuel cell, onshore and offshore power generation can be included.
17.5.7	:	In the course, "Electrical Safety", Contents like Personal Protective Equipment, recent surge protection scheme for generator may be included.
17.5.8	:	In the course, "Advanced Control Theory", H_{∞} Control may be included in Unit – IV.
17.5.9	:	In the Course, "VLSI Design", FPGA applications may be given in Unit-V.
17.5.10		In the Course, "Electronics Design and Technology" Unit-III title may be renamed as OP-AMP Applications.

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi. Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

Dr. M. Bakruthen, Assistant Professor (Senior Grade)/EEE thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

CHAIRMAN		
1.	Dr.M.WiljuiceIruthayarajan Professor and Head/ EEE	Board Chairman
INDUSTRIAL EXPERT		
2.	Dr. Santosh Kumar Annadurai GE T&D Ltd., GIS R&D Centre, Unit R&D Head, Padappai, Chennai.	 20/7/2022
INTERNAL MEMBERS		
3.	Dr.L.Kalaivani Professor/ EEE	 20/07/2022
4.	Dr.R.V.Maheswari Professor/ EEE	R.V.Maheswari
5.	Dr.M.Ravindran Associate Professor (S.G) / EEE	M.Ravindran
6.	Dr.N.B.Prakash Associate Professor / EEE	
7.	Dr.M.P.E.Rajamani Assistant Professor(S.G) / EEE	M.P.E.Rajamani
STUDENT MEMBERS		
8.	Mr. J. S. Jekhan, Third Year / EEE	Jekhan
EXPERT MEMBERS ATTENDED THE MEETING BY ONLINE		
9.	Dr. V. Suresh Kumar, Professor, Department of Electrical and Electronics Engineering, Thiagarajar College of Engineering, Madurai, Tamilnadu.	Academic Expert

10.	Dr. Rajesh Joseph Abraham Associate Professor, Department of Avionics, Indian Institute of Space Science and Technology, Valiamala P.O., Thiruvananthapuram, Kerala.	Academic Expert
11.	Dr. Santosh Kumar Annadurai GE T&D Ltd., GIS R&D Centre, Unit R&D Head, Padappai, Chennai.	Industrial Expert
12.	Dr. Hariram Satheesh, Principal Scientist, ABB Global Industries and Services Ltd, Bangalore.	
13.	Mr. M. Ramesh Senior Technical Engineer, Hardware Design and Development, Data Patterns India Pvt. Ltd., Chennai.	
INTERNAL MEMBER ATTENDED THE MEETING BY ONLINE		
14.	Dr.S.Dharmalingam, Adjunct Faculty/EEE	Internal member
STUDENT MEMBER ATTENDED THE MEETING BY ONLINE		
15.	Ms. J. Joyslin Janet, Third Year / EEE	Student Member


CHAIRMAN
BOARD OF STUDIES

Dr. M. WILLJUICE IRUTHAYARAJAN, ME., Ph.D.
 Professor & Head
 Department of Electrical & Electronics Engg.
 National Engineering College
 Kovilpatti - 626 503

Annexure – I

Action Taken on Suggestions from 16th BOS Meeting

Suggestions	Action Taken
The course “Electrical Drives”, Unit-III Title may be modified as Design of Controllers for DC Drives and manual for drives may be given in reference.	Unit-III title has been modified in syllabus
In the course “Power System Dynamics and Control”, reference book may be updated.	Corrections are incorporated in the Syllabus
The course “Power Electronics for Renewable Energy Systems”, generators content may be reduced in the syllabus.	
The course “EHV Power Transmission”, syllabus may be reframed to include FACTS, HVDC, Electromagnetic Fields, online condition Monitoring, etc.	
The courses “Soft Computing for Electrical Engineering” and “MEMS and NEMS, updated versions of books may be included in text and reference books.	Updated version of books has been included in syllabus
In the course “Embedded Systems”, course content may be expanded with overview of latest smart storage memories, and industry related approaches in embedded systems	The content has been included in the syllabus.
In the course “DSP Based System Design”, the contents such as Application related to signal processing, video and image processing may be included.	Application content has been included in the syllabus.
In the course, “Electric Vehicle Machines and Drive Systems”, conventional vehicle drive system and its issues may be included in Unit I. In Unit II and III, content related with motors may be given as overview.	
In the course, “Battery Management System and	

modeling”, basics of batteries may be given in Unit-I. Content related with battery charging, discharging and its performance on EV applications may be added in Unit II. EV charging station, Battery disposal and recycling techniques may be included in Unit V.

In the Course, “Control of Hybrid Electric Vehicles” analysis of Hybrid EV system may be given in detail. Case studies related to energy storage system modeling may be added.

In the Course, “Autonomous Intelligent Vehicle”, sensors related to state estimation of vehicle may be included. Radar tracking system may be added.

Corrections are incorporated in the syllabus.

M. Willjuice Iruthayarajan
EEE Board Chairman

Dr. M. WILLJUICE IRUTHAYARAJAN, ME., Ph.D.
Professor & Head
Department of Electrical & Electronics Engg.
National Engineering College
Kavipatti - 628 503

Annexure – I

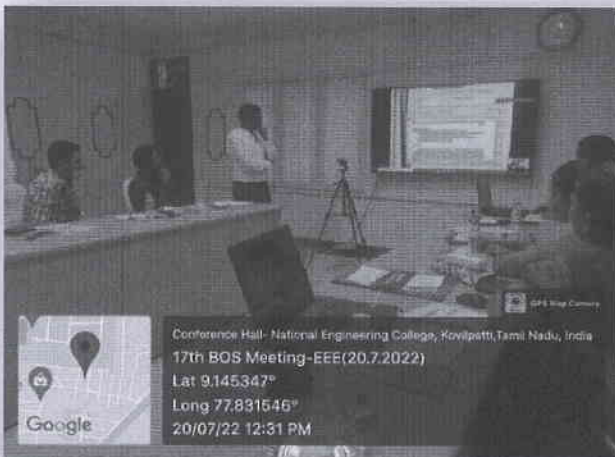
New Courses Intorduced UG (B.E. – EEE) under R 2019

The following new courses have been included in UG Curriculum of B.E. Electrical and Electronics Engineering under R2019.

1. 19EE59E - ELECTRONICS DESIGN AND TECHNOLOGY
2. 19EE27L - PYTHON PROGRAMMING IN RASPBERRY PI AND HARDWARE INTERFACING
3. 19EE28L - ARDUINO PROGRAMMING


EEE Board Chairman

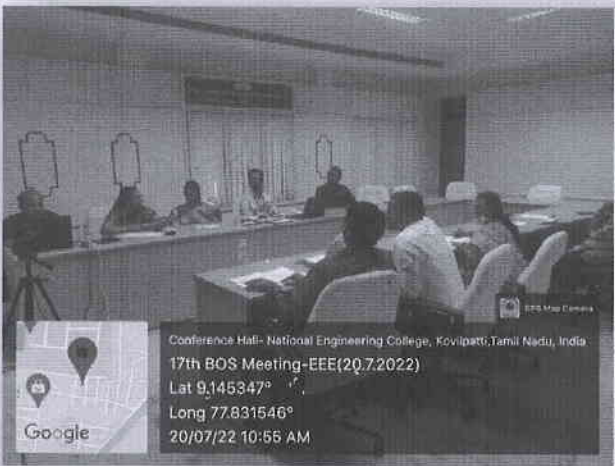
Dr. M. WILLJUICE IRUTHAYARAJAN, ME., Ph.D.
Professor & Head
Department of Electrical & Electronics Engg.
National Engineering College
Kovilpatti - 628 503



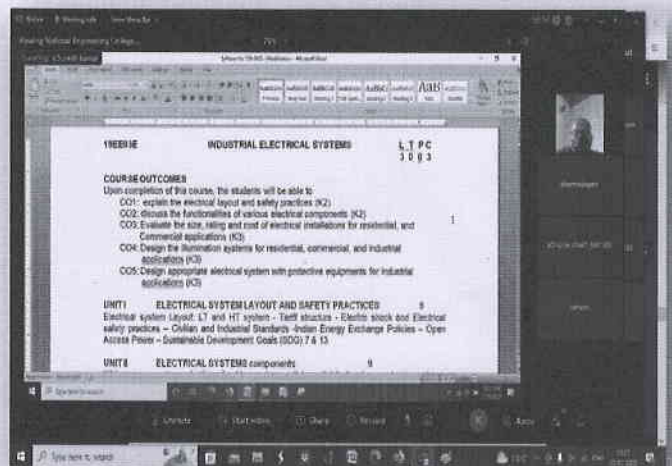
Conference Hall- National Engineering College, Kovilpatti, Tamil Nadu, India
 17th BOS Meeting-EEE(20.7.2022)
 Lat 9.145347°
 Long 77.831546°
 20/07/22 12:31 PM



Conference Hall- National Engineering College, Kovilpatti, Tamil Nadu, India
 17th BOS Meeting-EEE(20.7.2022)
 Lat 9.145347°
 Long 77.831548°
 20/07/22 10:54 AM



Conference Hall- National Engineering College, Kovilpatti, Tamil Nadu, India
 17th BOS Meeting-EEE(20.7.2022)
 Lat 9.145347°
 Long 77.831546°
 20/07/22 10:55 AM



M. Willjuice
EEE Board Chairman

Dr. M. WILLJUICE IRUTHAYARAJAN, ME., Ph.D.
Professor & Head
Department of Electrical & Electronics Engg.
National Engineering College
Kovilpatti - 628 503

17th BOARD OF STUDIES MEETING – Department of EEE on 20.07.2022

The screenshot shows a Webex meeting interface. The main content is a presentation slide titled "SOLAR PHOTOVOLTAIC FUNDAMENTALS AND APPLICATIONS" with a course code "19EE22E" and "LTPC 3.003". The slide lists course outcomes (CO1-CO5) and two units: "UNIT I SOLAR CELL FUNDAMENTALS" and "UNIT II SOLAR CELL FABRICATION". The meeting controls at the bottom include Unmute, Start video, Share, Record, and a red mute button. The system tray shows the date as 20-07-2022 and time as 11:01. A notification at the top right says "Hartram left the meeting."

Viewing National Engineering College... 53% +

Speaking: V.Suresh kumar, National Engineering Coll...

01:37:08

Hartram left the meeting.

V.Suresh kumar

National Engineering Colle... (Cohost)

Dr. Rajesh Joseph Abraham

dharmalingam

JOYSLIN JANET_NEC_EEE

ramesh

Unmute Start video Share Record

Type here to search 33°C 11:01 20-07-2022

The screenshot shows a Webex meeting interface. The main content is a presentation slide titled "Outline of the Presentation" with a bulleted list of items. The meeting controls at the bottom include Unmute, Start video, Share, Record, and a red mute button. The system tray shows the date as 20-07-2022 and time as 10:18. A notification at the top right says "Hartram left the meeting."

Viewing National Engineering College... 62% +

01:37:08

Hartram left the meeting.

Dr. Rajesh Joseph Abrah...

dharmalingam

ramesh

JOYSLIN JANET_NEC_EEE

Hartram

Layout

Outline of the Presentation

- Confirmation of the Minutes and Action Taken for the 16th meeting of Board of studies.
- Remaining Core courses and elective courses for UG degree programmes under R-2019.
- One credit courses and Open elective courses for UG degree programmes under R-2019.
- Any other matter

Unmute Start video Share Record

Type here to search 31°C 10:18 20-07-2022

Department of Civil Engineering

MINUTES of the 14th Meeting of the Board of Studies held on
14th July 2022, 11:00 am

Venue: Through Google Meet (Online)
<https://meet.google.com/adt-tuvp-vrx>
National Engineering College, K.R.Nagar, Kovilpatti – 628503

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
www.nec.edu.in

Department of Civil Engineering

National Engineering College, K.R.Nagar, Kovilpatti– 628503

(An Autonomous Institution -Affiliated to Anna University, Chennai)

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14th Board of Studies Meeting in the Department of
Civil Engineering

Venue: Through Google Meet (Online)

<https://meet.google.com/adt-tuvp-vrx>

National Engineering College, K.R.Nagar, Kovilpatti– 628503

Date & Time: 14.07.2022 & 11.00 am

Agenda

BoS / CIVIL14.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Civil Engineering
BoS / CIVIL14.2	:	Confirmation of the Minutes of the 13 th meeting of Board of studies in the department of Civil Engineering held on 01 st December 2021 and Action taken report of 13 th meeting of Board of studies
BoS / CIVIL14.3	:	Business brought forward by the Chairman, Board of studies 14.3.1 Discussion about the syllabus of Three one credit programme elective laboratory courses for UG degree programme under regulation 2019.
BoS / CIVIL14.4	:	Any other items
BoS / CIVIL14.5	:	Suggestions given by the BoS Members

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
www.nec.edu.in

F. No. 1-1/NEC/Civil Engg.

14.07.2022

Dear Sir/Madam,

Sub: *Minutes of the 14th Meeting of the Board of Studies in the Civil Engineering - Reg.*

Kindly find attached herewith the Minutes of the 14th Meeting of Board of studies of the Civil Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 14.07.2022 at 11.00 AM through Google Meet (online). Hard copy of the Minutes is also being sent to you by speed post.

It is requested that comments on the Minutes, if any, may please be sent by email at hodcivil@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed. With Kind Regards,

Yours Sincerely



Dr.C.PuthiyaSekar

Department of Civil Engineering

MINUTES OF THE MEETING

The 14th Meeting of the Board of Studies of the Civil Engineering was held on 14th July 2022 at 11:00 am through online Google Meet conducted by Civil Department, National Engineering College, K.R.Nagar, Kovilpatti- 628503.

The following members were present:

1	Dr.C.PuthiyaSekar Professor & Head	Chairman
2	Dr.C.Chella Gifta Asso.Prof-Civil	Internal Members
3	Mrs.R.Venkadalakshmi AP(SG)-Civil	
4	Mr.S.Danielraj AP-Civil	
5	Mr.Franchis David AP-Civil	
6	Mrs.M.Balamaheswari AP-Civil	
7	Ms.B.Anitha AP-Civil	
8	Mr.V.Arulpandian AP-Civil	
9	Mr.S.M. Murali Ram Kumar AP-Civil	
10	Mr.B.Gowtham AP-Civil	
11	Mr.S.Kannan AP-Civil	
12	Mr.M.Malaiappan Sindhu AP-Civil	
13	Mr.C.Gurumoorthy AP-Civil	
14	Dr.K.Chinnaraju, Professor, Department of Civil Engineering, College of Engineering Guindy campus, Anna University, Chennai-600 025.	University Nominee
15	Dr.T.Velrajan, Professor, Department of Civil Engineering, Thiagarajar college of Engineering, Madurai- 625 015.	Academic Expert
16	Dr.P.D.Arumairaj, Principal Consultant, AlzumGeoCivil Integrated Services, Thadagam Road, Coimbatore -6414 025.	Industrial Expert
17	Dr.P.Jayabalan Professor , Department of Civil Engineering, National Institute of Technology Trichy	

BoS / CIVIL 14.1	<p>: WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF CIVIL ENGINEERING</p> <p>The Chairman, BoS of the Civil Engineering welcomed and introduced the members of 14th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.</p>
BoS / CIVIL 14.2	<p>: TO CONFIRM THE MINUTES OF TWELFTH BOS MEETING HELD ON 01ST DECEMBER, 2021</p> <p>The minutes of the Thirteenth Board of Studies meeting held on 01st December, 2021 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 16th Academic council meeting.</p> <p>➤ Action Taken Report (Enclosed in Annexure I)</p>
BoS/CIVIL 14.3	<p>: TO CONFIRM AND APPROVE THE SYLLABUS OF THREE ONE CREDIT PROGRAMME ELECTIVE LABORATORY COURSES FOR UG DEGREE PROGRAMME UNDER REGULATION 2019.</p> <p>RESOLVED TO approve the Syllabus of three One Credit Programme Elective Laboratory Courses for UG Degree Programme Under Regulation 2019.</p>
BoS / CIVIL 14.4	<p>: ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS</p> <p>The BoS members had a discussion with the internal members regarding the Curriculum & the syllabus of Programme Eletive Courses under R-2019.</p>
BoS / CIVIL 14.5	<p>: SUGGESTIONS GIVEN BY THE BOS MEMBERS</p>

The suggestions given by the BoS Members on the three one credit programme elective courses are given by.

- 14.5.1 BOS members reviewed the syllabus content and enquired whether the syllabus is different from Basic C Programming learnt in the first year.
- 14.5.2 BOS members reviewed the syllabus content and enquired whether the coding subject is introduced first time in civil engineering curriculum.

- 14.5.3 In C programming application for Civil Engineering I, the question No 11 is based on function level and it is suggested to move the question to C programming application for Civil Engineering II
- 14.5.4 BoS Members suggested to include the course called, Python Programming for Civil Engineering in the curriculum of R 2019 for industry readiness to get software related jobs.
- 14.5.5 In C programming application for Civil Engineering I, the input parameters are mentioned in MKS units in question No 7. BoS Members suggested to use only SI units instead of MKS units in the problem statement .

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Specialization course, Curriculum and Syllabi.

Based on the suggestions and recommendations given by the members, BoS resolved to recommend the following to the Academic Council for further approval.

- a) The Syllabus of three One Credit Programme Elective Laboratory Courses for UG Degree Programme Under Regulation 2019.

Mr.B.Gowtham AP-Civil thanked all the members for their kind cooperation and the meeting came to an end.

External Members Present Online:

1.	Dr.K.Chinnaraju, Professor, Department of Civil Engineering, College of Engineering Guindy campus, Anna University, Chennai-600 025.	University Nominee
2.	Dr.T.Velrajan, Professor, Department of Civil Engineering, Thiagarajar college of Engineering, Madurai- 625 015.	Academic Expert
3.	Dr.P.Jayabalan, Professor, Department of Civil Engineering, National Institute of Technology, Trichy.	Industrial Expert
4.	Dr.P.D.Arumairaj, Principal Consultant, AlzumGeoCivil Integrated Services, Thadagam Road, Coimbatore -6414 025.	Industrial Expert

Internal Members Present Online

Dr.C.PuthiyaSekar Professor & Head Department of civil Engineering	Chairman
Dr.C.Chella Gifta Asso.Prof-Civil	Internal Members
Mrs.R.Venkadalakshmi AP(SG)-Civil	
Mr.S.Danielraj AP-Civil	
Mr.Franchis David AP-Civil	
Mrs.M.Balamaheswari AP-Civil	
Ms.B.Anitha AP-Civil	
Mr.V.Arulpandian AP-Civil	
Mr.S.M. Murali Ram Kumar AP-Civil	
Mr.B.Gowtham AP-Civil	
Mr.S.Kannan AP-Civil	
Mr.M.Malaiappan Sindhu AP-Civil	
Mr.C.GurumoorthyAP-Civil	



CHAIRMAN

BOARD OF STUDIES

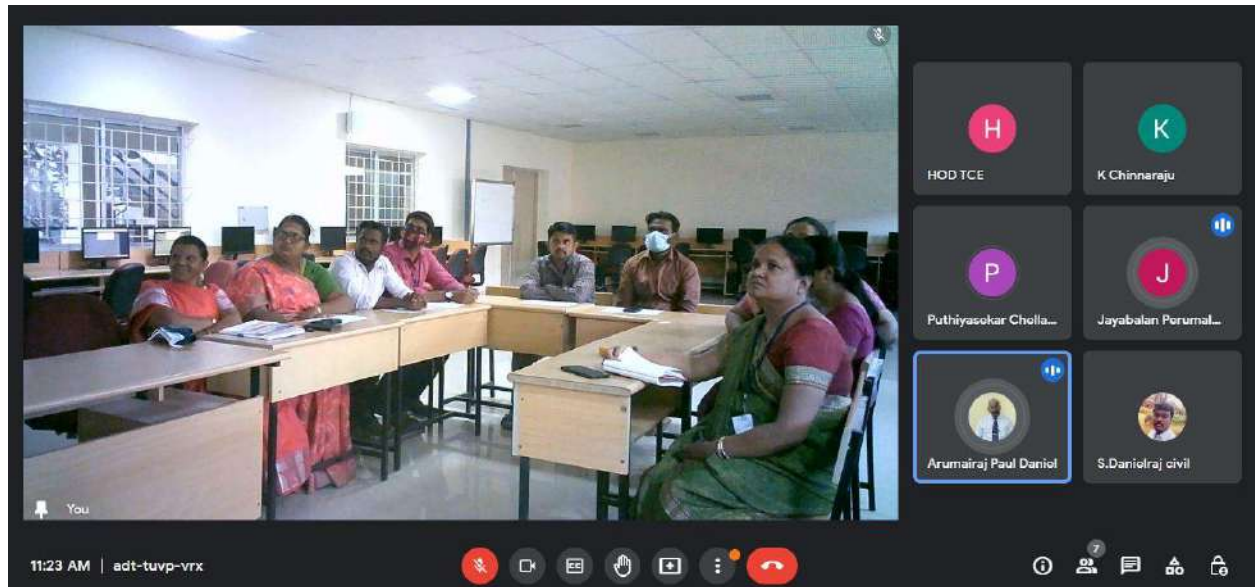
ANNEXURE I

Action taken for Minutes of 13th BoS Meeting

As per BoS Committee Suggestions,

1. The CO statements are modified with suitable verbal words and reframed the CO statement matching exactly with the content available in each unit.
2. For Remote Sensing and GIS for Engineering applications theory course, it is included more content relevant to the GIS application (Water shed management, Corporation Planning) for a Civil Engineering Students and less in Remote sensing area.
3. In Total Station and GPS Surveying Course, it is offered only the basic principles involved in EDM for this outdated technology .
4. It is included that Setting out of Buildings using total station and GPS in Serial No 8 of Total Station and GPS laboratory.

17th BOARD OF STUDIES MEETING – Department of Civil Engineering On
14.07.2022



Department of Information Technology

National Engineering College, K.R.Nagar, Kovilpatti – 628 503.

(An Autonomous Institution - Affiliated to Anna University, Chennai)

www.nec.edu.in

17th Board of studies Meeting in the Department of
Information Technology

Venue: Department of IT, National Engineering College
K.R.Nagar, Kovilpatti – 628503

Date & Time: 02.07.2022 & 11.00 a.m.

Agenda

BoS / IT 17.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Information Technology
BoS / IT 17.2	:	Confirmation of the Minutes of the 16 th meeting of Board of studies in the department of Information Technology held on 25 th NOV 2021 and Action taken report of 16 th meeting of Board of studies
BoS / IT 17.3	:	Business brought forward by the Chairman, Board of studies 17.3.1 Additional One credit courses for UG degree programmes under R-2019 17.3.2 B.Tech. - Artificial Intelligence and Data Science - Curriculum and Syllabi of UG degree programme under R-2019 17.3.3 Approval for inclusion of Mandatory Elective Course Professional Readiness for Innovation, Employability and Entrepreneurship degree programme under R-2019 17.3.4 Approval for list of examiners for project viva voce examinations
BoS / IT 17.4	:	Any other items
BoS / IT 17.5	:	Suggestions given by the BoS Members

Department of Information Technology

National Engineering College, K.R.Nagar, Kovilpatti – 628 503

(An Autonomous Institution - Affiliated to Anna University, Chennai)

www.nec.edu.in

F. No. 17.1/NEC/ IT/2021-22

02nd July, 2022

Dear Sir/Madam,

Sub: Minutes of the 17th Meeting of the Board of studies in the Information Technology - Reg.

Kindly find attached herewith the Minutes of the 17th Meeting of Board of studies of the Information Technology of National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 02nd July, 2022 at 11.00 AM. Hard copy of the minutes is also being sent to you by speed post.

It is requested that comments on the Minutes, if any, may please be sent by email at hodit@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed. With kind Regards,

Yours Sincerely

(Dr.K.G.Srinivasagan)

Department of Information Technology

MINUTES of 17th Meeting of the Board of studies held on
02nd July, 2022 at 11.00 AM

Venue: Department of IT, National Engineering College
K.R.Nagar, Kovilpatti – 628503

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
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Department of Information Technology

National Engineering College, K.R.Nagar, Kovilpatti – 628 503

(An Autonomous Institution - Affiliated to Anna University, Chennai)

www.nec.edu.in

MINUTES OF THE MEETING

The 17th Meeting of the Board of studies of the Information Technology was held on 02nd July 2022 at 11.00 AM through Google Meet.

1. The following members were present:

1.	Dr.K.G.Srinivasagan	Chairman
2.	Dr.R.Muthukumar, Asso. Prof.	Internal Members
3.	Dr.S.Chidambaram, Asst. Prof. (SG)	
4.	Dr.S.Rajagopal, Asst. Prof. (SG)	
5.	Dr.V.Jackins, Asst. Prof. (SG)	
6.	Mr.G.Pandiyarajan, Asst. Prof.	
7.	Ms.V.Anitha, Asst. Prof.	
8.	Ms.S.Santhi, Asst. Prof.	
9.	Dr.S.Swamynathan, Professor, Department of Information Science &Technology, Anna University, Chennai.	University Nominee
10.	Dr.P.Yogesh, Professor, Department of Information Science &Technology, Anna University, Chennai.	Academic/Alumni Expert
11.	Dr. Shajulin Benedict, Assistant Professor, Department of Computer Science and Engineering, IIT - Kottayam.	Special Invitee
12.	Dr. Debasis Samanta, Associate Professor Department of Computer Science & Engineering, IIT - Kharagpur.	Special Invitee
13.	Mr.Antony Arravindh, Senior Project Manager, HCL Technologies, Chennai.	Alumni/Industrial Expert
14.	Dr.K.M.Suceendran, General Manager, Tata Consultancy Services, Chennai.	Industrial Expert
15.	Anandh.A, Third year	Student Members
16.	Anto Rosario.S, Third year	

BoS / IT 17.1	:	WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF INFORMATION TECHNOLOGY
		The Chairman, BoS of the Information Technology welcomed and introduced the members of 17 th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.
BoS / IT 17.2	:	TO CONFIRM THE MINUTES OF SIXTEENTH BOS MEETING HELD ON 25 th NOV, 2021.
		<p>The minutes of the Sixteenth Board of Studies meeting held on 25th Nov, 2021 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 16th Academic council.</p> <p>➤ Action Taken Report</p> <p>(Enclosed in <i>Annexure I</i>)</p>
BoS / IT 17.3.1		TO CONFIRM AND APPROVE ADDITIONAL ONE CREDIT COURSES FOR UG DEGREE PROGRAMMES UNDER R-2019
		RESOLVED TO APPROVE additional one credit courses for UG degree programmes under R2019
BoS / IT 17.3.2		TO CONFIRM AND APPROVE B.TECH. - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE - CURRICULUM AND SYLLABI OF UG DEGREE PROGRAMME UNDER R-2019
		RESOLVED TO APPROVE B.Tech. - Artificial Intelligence and Data Science - Curriculum and Syllabi of UG degree

		programme under R-2019
BoS / IT 17.3.3		TO CONFIRM AND APPROVE INCLUSION OF MANDATORY ELECTIVE COURSE "PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP" DEGREE PROGRAMME UNDER R-2019
		RESOLVED TO APPROVE inclusion of Mandatory Elective Course Professional Readiness for Innovation, Employability and Entrepreneurship degree programme under R-2019
BoS / IT 17.3.4		TO CONFIRM AND APPROVE LIST OF EXAMINERS FOR PROJECT VIVA VOCE EXAMINATIONS
		RESOLVED TO APPROVE list of examiners for project viva voce examinations
BoS / IT 17.4	:	SUGGESTIONS GIVEN BY THE BOS MEMBERS
17.4.1	:	One Credit Courses
		In Arduino Programming , some basic concepts may be included.
		In Mathematics for Machine Learning , some Python based tools may be used to explore statistical concepts. Content is heavy for offering as one credit, and it may be provided as a three credit course.
		In Network Simulation with NS3 one credit course contents related to NS4 may also be included.
		In Python for Data Science , some popular dataset may be specified. In reference books, year may be mentioned.
		In Node JS , some introduction about meanstack development may be provided.

		In Introduction to NoSQL with MongoDB , case study based exercises related to social media applications and IoT based applications may be included
17.4.2	:	Artificial Intelligence and Data Science
		Syllabus of Physics for Information Sciences is exactly same as Digital systems . Either the title should be changed to the syllabus must be updated
		In Data Structures course , syllabus may be framed with some lighter content. In subsequent lab exercises, programs mentioning specific sorting algorithms may be given.
		Courses like Design and Analysis of Algorithms is considered to be given too early in semester 3 and Theory of Computation is too late to be offered in semester 5.
		Before offering Deep Learning course in Semester 6, at least one course may be given on Artificial Neural Network .
		Courses like Computer Networks and Information security must be offered in curriculum.
		As per suggestions from BoS members the first semester subjects in AI&DS may be kept light-weighted following uniformity.
17.4.3	:	Mandatory Elective Course on Professional Readiness for Innovation, Employability and Entrepreneurship may be recommended.
17.4.4		List of examiners to be approved for project viva voce examinations, may be confined to Associate Professor and Professors.

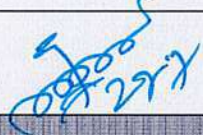
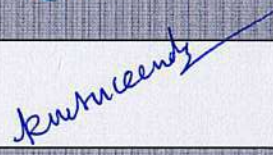
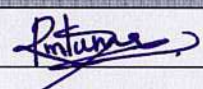

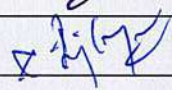
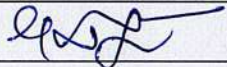
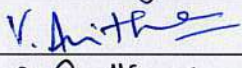
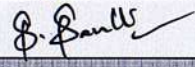
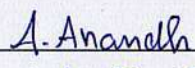
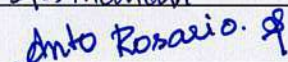
The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated.

Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- a) Additional One credit courses for UG degree programmes under R-2019
- b) B.Tech. - Artificial Intelligence and Data Science - First year Curriculum and Syllabi of UG degree programme under R-2019
- c) Approval for inclusion of Mandatory Elective Course "Professional Readiness for Innovation, Employability and Entrepreneurship" degree programme under R-2019
- d) To get approval for list of examiners for project viva voce examinations

Ms.S.Santhi, Asst. Prof., thanked all the members for their kind cooperation and the meeting came to an end.

Members Present:


Dr.K.G.Srinivasagan, Prof & Head ,Board Chairman	
Industrial Expert	
Dr.K.M.Suceendran, General Manager, Tata Consultancy Services, Chennai.	
Internal Members	
Dr.R.Muthukkumar, Asso. Prof.	
Dr.S.Chidambaram, Asst. Prof. (SG)	
Dr.S.Rajagopal, Asst. Prof. (SG)	
Dr.V.Jackins, Asst. Prof. (SG)	
Mr.G.Pandiyarajan, Asst. Prof.	
Ms.V.Anitha, Asst. Prof.	
Ms.S.Santhi, Asst. Prof.	
Student Members	
Anandh.A, Third year	
Anto Rosario.S, Third year	

Members Present Online:

1.	Dr.S.Swamynathan, Professor, Department of Information Science &Technology, Anna University, Chennai.	University Nominee
2.	Dr.P.Yogesh, Professor, Department of Information Science &Technology, Anna University, Chennai.	Academic Experts

Members Present Online:

1.	Dr.S.Swamynathan, Professor, Department of Information Science &Technology, Anna University, Chennai.	University Nominee
2.	Dr.P.Yogesh, Professor, Department of Information Science &Technology, Anna University, Chennai.	Academic Experts
3.	Dr. Shajulin Benedict, Assistant Professor, Department of Computer Science and Engineering, IIIT - Kottayam.	Special Invitee
4.	Dr. Debasis Samanta, Associate Professor Department of Computer Science & Engineering, IIT - Kharagpur.	
5.	Mr.Antony Arravindh, Senior Project Manager, HCL Technologies, Chennai.	Industrial Experts and Alumni


CHAIRMAN
BOARD OF STUDIES

ANNEXURE I

Actions taken for Minutes of 16th BoS Meeting

As per BOS Committee suggestion,

- Curriculum Restructuring
 - One core course from seventh semester is shifted to sixth semester
 - One elective course from sixth semester is shifted to seventh semester
- Syllabus Reformation – Product Development Laboratory
- Specialization course to be offered in UG degree programme under R-2019
 - Data Science
- Credit Transfer for other online courses like udemy, coursera etc., and norms for credit transfer
- End Semester Examination - Reforms

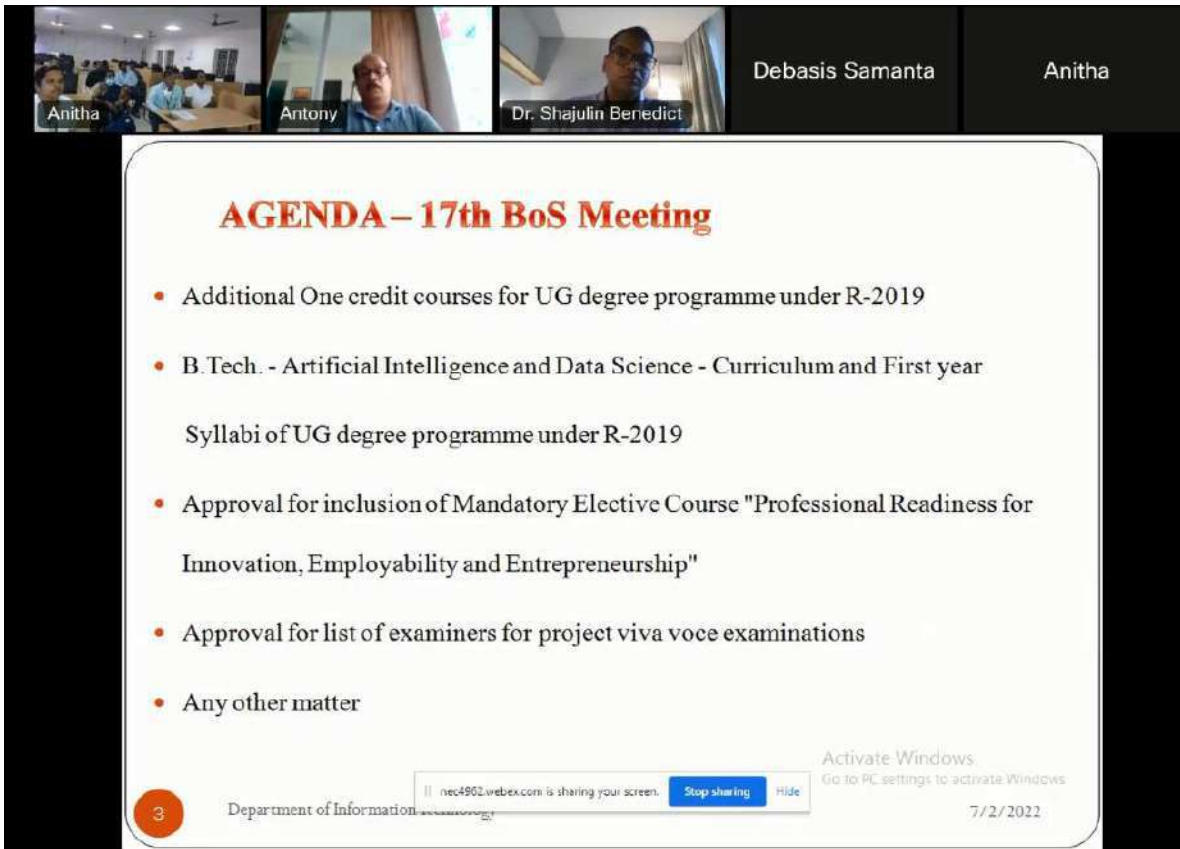


CHAIRMAN

BOARD OF STUDIES



The slide features the National Engineering College logo on the left, which includes the text 'National Engineering College', 'An Autonomous Institution Affiliated to Anna University, Chennai', and 'Estab. 1984'. The main title is 'National Engineering College' in blue, followed by '(An Autonomous Institution Affiliated to Anna University, Chennai)' in black. Below this is an orange banner with 'Department of Information Technology' in white. The central text reads 'Welcome all experts for the 17th Board Of Studies Meeting (02.07.2022)'. At the bottom, there is a Windows watermark and a sharing notification: 'nec4982.webex.com is sharing your screen. Stop sharing Hide'. The top of the slide shows three video thumbnails: Anitha, Antony, and Dr. Shajulin Benedict, with names 'Debasis Samanta' and 'Anitha' listed to the right.



The slide is titled 'AGENDA – 17th BoS Meeting' in red. It contains a bulleted list of agenda items: 'Additional One credit courses for UG degree programme under R-2019', 'B.Tech. - Artificial Intelligence and Data Science - Curriculum and First year Syllabi of UG degree programme under R-2019', 'Approval for inclusion of Mandatory Elective Course "Professional Readiness for Innovation, Employability and Entrepreneurship"', 'Approval for list of examiners for project viva voce examinations', and 'Any other matter'. At the bottom, there is a Windows watermark and a sharing notification: 'nec4982.webex.com is sharing your screen. Stop sharing Hide'. A red circle with the number '3' is in the bottom left corner. The text 'Department of Information Technology' is partially visible at the bottom left, and '7/2/2022' is at the bottom right. The top of the slide shows three video thumbnails: Anitha, Antony, and Dr. Shajulin Benedict, with names 'Debasis Samanta' and 'Anitha' listed to the right.

DEPARTMENT OF SCIENCE AND HUMANITIES

MINUTES of 5th Meeting of the Board of studies held on
16th July 2022 at 10.00 am

Venue: Seminar Hall, Department of Science and Humanities
National Engineering College, K.R.Nagar, Kovilpatti

Online Meet: Cisco Webex

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
www.nec.edu.in

NATIONAL ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI – 628 503
(An Autonomous Institution - Affiliated to Anna University, Chennai)
www.nec.edu.in

5th Board of Studies Meeting in the Department of
SCIENCE AND HUMANITIES

Venue: Seminar Hall, Department of Science and Humanities
National Engineering College, K.R.Nagar, Kovilpatti – 628 503

Cisco WebexLink:

<https://nec4962.webex.com/nec4962/j.php?MTID=m9c2c0276e245726bf288e0f1de9ab411>

Date & Time: 16.07.2022& 10.00 AM

AGENDA

S & H /BoS 5.1	:	Welcome address and Opening Remarks by Chairman, Board of studies, Department of Science and Humanities.
S & H / BoS 5.2	:	Confirmation of the Minutes of the 4 th meeting for the first year UG Degree Programmes in the Department of Science and Humanities held on November 23 rd , 2018
S & H / BoS 5.3	:	Business brought forward by the Chairman, Board of studies 5.3.1. First year Curriculum and Syllabi of B.Tech. – Artificial Intelligence and Data Science under R-2019
S & H / BoS 5.4	:	Transdisciplinary courses
S & H / BoS 5.5	:	Suggestions given by the BoS Members

National Engineering College, K.R.Nagar, Kovilpatti – 628 503
(An Autonomous Institution – Affiliated to Anna University, Chennai)
www.nec.edu.in

F. No. 1-1/NEC/S & H

16th July 2022

Dear Sir/Madam,

Sub: Minutes of the 5th Meeting of the Board of studies in Science and Humanities-Reg.

Kindly find the attachment herewith the Minutes of the 5th Meeting of Board of studies, Department of Science and Humanities, National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 16th July 2022 at 10.00 AM in the Seminar Hall of Department of Science and Humanities.

It is requested that comments on the Minutes, if any, may please be sent by email at hodsh@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed. With Kind Regards,

Yours Sincerely



Dr.M.A.Neelakantan

MINUTES OF THE MEETING

The 5th Meeting of the Board of studies of the Science and Humanities was held on 16th July 2022 at 10.00 AM through Cisco Webex online meet of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503

1. The following members were present:

Dr.M.A.Neelakantan Professor & Head	CHAIRMAN
Dr.S. Thalamuthu, Asso.Professor/Chemistry	INTERNAL MEMBERS
Dr.S.Geetha, AP (SG) / Mathematics	
Dr.P.Gomathy, AP (SG) / Physics	
Mrs.S.Rajeswari, AP/Mathematics	
Mrs.M.Annapooopathi, AP/Mathematics	
Dr.S.Chithirai Kumar, AP / Chemistry	
Mr.S.Subash, AP/English	
Dr.A.Nichelson, AP/Physics	
Dr.B.Annaraj, AP / Chemistry	
Ms.S.Thangam, AP / English	
Dr. S. Sanjeevi, Professor, Department of Geology, Anna University, Chennai.	UNIVERSITY NOMINEE
Dr. S.P. Dhanavel, Professor, Department of English, Indian Institute of Technology Madras, Chennai.	ACADEMIC EXPERTS
Dr. N. Rajendran, Professor and Head, Department of Chemistry, Anna University, Chennai.	
Dr. N. Gopalakrishnan, Professor, Department of Physics, National Institute of Technology, Tiruchirapalli.	
Dr. V. Lakshmana Gomathi Nayagam, Associate Professor, Department of Mathematics, National Institute of Technology, Tiruchirapalli.	
Mr.Brijesh Tangi, Specialist Engineer, Canadian National Rail, Canada.	Meritorious Alumnus Nominated by the Principal

Mr. S. Rathina Kumar, Kavitha Match Industries, Manufacturing and Exporters of safety matches, Kovilpatti.	Industrial Expert
Ms.M. Karpagalakshmi , Final year IT	Student Members Nominated by the HOD
Mr.S.Suriya Manikandan, III year ECE	

S & H / BoS 5.1:	Welcome address and Opening Remarks by Chairman, Board of Studies in the Department of Science and Humanities. The Chairman BoS of the Science and Humanities welcomed and introduced the Members of the 5 th Board of Studies and thanked each one of them for sparing their valuable time for attending the meeting.
S & H / BoS 5.2:	TO CONFIRM THE MINUTES OF FOURTH BOS MEETING HELD ON NOVEMBER 23 rd 2018 The minutes of the Fourth Board of Studies meeting held on November 23 rd 2018 was communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 17 th Academic council.
S & H / BoS 5.3:	TO CONFIRM AND APPROVE the syllabi of the first year UG degree programme (Based on OBE & CBCS) B.Tech. – Artificial Intelligence and Data Science to be offered under R-2019. RESOLVED TO APPROVE the syllabi of the first year UG degree programme (BASED ON OBE & CBCS) B.Tech. – Artificial Intelligence and Data Science to be offered under R-2019 ➤ <u>R-2019 B.Tech. – AI & DS Syllabi</u> (Enclosed in Annexure)
S & H / BoS 5.4:	TO CONFIRM AND APPROVE the syllabi of transdisciplinary courses 1) Impact of Social Media on Society 2) Soft Skills and Interpersonal Communication are to be offered under R-2019. RESOLVED TO APPROVE the syllabi of transdisciplinary courses 1) Impact of Social Media on Society 2) Soft Skills and Interpersonal Communication are to be offered under R-2019.

S & H / BoS 5.5:	SUGGESTIONS GIVEN BY THE BOS MEMBERS
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	Suggestions	Action Taken
5.5.1	English	
	<ul style="list-style-type: none"> ▪ It was advised to change the title COs into Units ▪ Suggestions were given to change the topic from 'PowerPoint Presentation' into Making Presentations or Practicing Presentation Skills. 	<ul style="list-style-type: none"> ▪ As per the suggestions, the title COs was changed into Units ▪ The title was changed into 'Making Presentations'
5.5.2	Mathematics	
	<ul style="list-style-type: none"> ▪ It was suggested to add reference book for Statistics. ▪ It was advised to change the title COs into Units ▪ Suggestions were given to pay attention on application – oriented contents in the syllabus 	<ul style="list-style-type: none"> ▪ "<i>Mathematical Statistics with Applications by John E. Freund's</i>" has been added as a reference book in the second semester. ▪ As per the suggestions, the title COs were changed into Units ▪ Case Study on sampling theory has been included.
5.5.3	Physics	
	<ul style="list-style-type: none"> ▪ It was suggested to change the "References" as "Reference Books" ▪ It was advised to include the logic gates experiment ▪ It was suggested to change the title of the subject "Physics for Information Science" 	<ul style="list-style-type: none"> ▪ The title "References" changed as "Reference Books" ▪ An experiment entitled 'Study of Logic Gates using Transistors' has been included. ▪ The title has been changed into 'Principles of Digital Electronics'
5.5.4	Chemistry	
	<ul style="list-style-type: none"> ▪ It was advised to change the subject title "Chemistry and Life Science". ▪ It was suggested to change the title of the laboratory course from "Biochemistry lab" into "Chemistry lab" 	<ul style="list-style-type: none"> ▪ The title has been changed to "Chemistry for Artificial Intelligence and Data Science" ▪ The title has been changed into "Chemistry Lab".
5.5.5	Transdisciplinary Courses	
	<ul style="list-style-type: none"> ▪ It was informed to change the preposition in the title "Impact of Social Media in Society". 	<ul style="list-style-type: none"> ▪ The title is changed as "Impact of Social Media on Society".




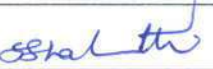
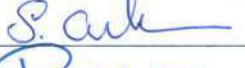


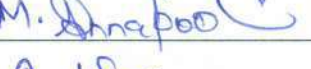
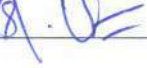
The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the Curriculum and Syllabi.

Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- a) The Curriculum and Syllabi for B.Tech. – AI & DS degree programme offered under Regulations 2019.

Dr.S.Geetha, Assistant Professor (SG) / Mathematics thanked all the members for their kind cooperation and the meeting came to an end.

Members Present

CHAIRMAN		
1.	Dr.M.A.Neelakantan Professor & Head	 16.7.22
ACADEMIC EXPERT		
2.	Dr. N. Rajendran, Professor and Head, Department of Chemistry, Anna University, Chennai.	 16/07/22
INDUSTRIAL EXPERT		
3.	Mr. S. Rathina Kumar Kavitha Match Industries Manufacturing and Exporters of safety matches Kovilpatti	
INTERNAL MEMBERS		
4.	Dr.S. Thalamuthu Asso.Professor / Chemistry	
5.	Dr.S.Geetha AP (SG) / Mathematics	
6.	Dr.P.Gomathy , AP (SG) / Physics	
7.	Mrs.S.Rajeswari, AP/Mathematics	
8.	Mrs.M.Annapooathi, AP/Mathematics	
9.	Dr.S.Chithirai Kumar, AP / Chemistry	

10.	Mr.S.Subash AP/English	<i>S. Subash</i>
11.	Dr.A.Nichelson AP/Physics	<i>A. Nichelson</i>
12.	Dr.B.Annaraj, AP / Chemistry	<i>B. Annaraj</i>
13.	Ms.S.Thangam,AP / English	<i>S. Thangam</i>
STUDENT MEMBERS		
14.	Ms.M. Karpagalakshmi , Final year IT	<i>Karpagalakshmi</i>
15.	Mr.Suriya Manikandan, III yearECE	<i>Suriya Manikandan</i>
ACADEMIC EXPERT MEMBERS ATTENDED THE MEETING BY ONLINE		
16.	Dr. S. Sanjeevi, Professor, Department of Geology, Anna University, Chennai	UNIVERSITY NOMINEE
17.	Dr. S.P. Dhanavel, Professor, Department of English, Indian Institute of Technology Madras, Chennai	ACADEMIC EXPERTS
18.	Dr. V. Lakshmana Gomathi Nayagam, Associate Professor, Department of Mathematics, National Institute of Technology, Tiruchirapalli	
19.	Dr. N. Gopalakrishnan Professor, Department of Physics, National Institute of Technology, Tiruchirapalli	
20.	Mr.Brijesh Tangi Specialist Engineer Canadian National Rail Canada	Meritorious Alumnus

[Signature]
16.7.22

**CHAIRMAN
BOARD OF STUDIES**

**5th BOARD OF STUDIES MEETING – Department of Science and Humanities On
16.07.2022**

5th BOS DISCUSSION AND APPROVAL
16.07.2022

B.Tech – Artificial Intelligence and Data Science
I Year Curriculum and Syllabi
R2019

Dhanavel Brijesh Tangi sanjeevi

CO2: demonstrate the voltage - current characteristics of different diodes (K3)
CO3: analyze the characteristics of transistors (K3)

LIST OF EXPERIMENTS

1. Determination of angle of divergence of laser beam and acceptance angle, numerical aperture of optical fibre.
2. Determination of wavelength of laser using grating and particle size of lycopodium powder
3. Determination of V-I characteristics of PN junction diode
4. Determination of V-I characteristics of Zener junction diode
5. Determination of V-I characteristics of light emitting diode
6. Determination of characteristics of BJT
7. Determination of characteristics of FET

A minimum of FIVE experiments shall be offered.

REFERENCES

Dhanavel GOPALA KRISH... sanjeevi Lakshmana Gom...