

NATIONAL ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI
(An Autonomous Institution – Affiliated to Anna University Chennai)

17th ACADEMIC COUNCIL MEETING

Date: 26/07/2022

Time: 10.30 A.M

Venue: Conference Hall

Meeting Link :

<https://nec4962.webex.com/nec4962/j.php?MTID=m99bc8f9447bf06d707ba135b90193874>

AGENDA

- ❧ WELCOME ADDRESS – Dr.K.Kalidasa Murugavel, Chairman
- ❧ SPECIAL ADDRESS – Dr.S.Shanmugavel, Director
- ❧ Confirmation of Minutes of 16th Academic Council Meet
- ❧ Discussion - to amend clause 5.6 (Total Number of Credits), clause 12.4 of PG Degree programmes under R-2019 – Consideration of NPTEL and other platform courses for credit transfer
- ❧ Discussion - to amend clause 14.1.1 of UG Degree programmes under R-2019 – NPTEL online courses - Letter Grade calculation as per dynamic 'K' value, for the students admitted in 2019-20 batch only
- ❧ Approval - to amend clause 11.2 of UG Degree programmes under R-2019 – System of Examination and Assessment Procedure (*for 2021-2022 batch onwards*)
- ❧ Approval of First year Curriculum & Syllabus for B.Tech – Artificial Intelligence and Data Science under R-2019
- ❧ Approval for remaining Core courses, Open Elective courses and One credit courses for UG / PG degree programmes under R-2019
- ❧ ANY OTHER MATTER
- ❧ VOTE OF THANKS



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(An Autonomous Institution – Affiliated to Anna University Chennai)



THE MINUTES OF THE 17th ACADEMIC COUNCIL

MINUTES OF THE 17th ACADEMIC COUNCIL MEETING HELD ON 26.07.2022 AT 10.30 A.M. IN THE WEBEX ONLINE MEET LINK <https://nec4962.webex.com/nec4962/j.php?MTID=m99bc8f9447bf06d707ba135b90193874>, NATIONAL ENGINEERING COLLEGE, KOVILPATTI UNDER THE CHAIRMANSHIP OF Dr.K.KALIDASA MURUGAVEL, PRINCIPAL.

The following are the academic council members:

Dr.K.Kalidasa Murugavel	Principal, National Engineering College
Academic Experts	
Dr.R.Raju	Professor / Dept. of Industrial Engg., Anna University, Chennai
Dr.D.Sriram Kumar	Professor / Dept. of ECE, NIT, Tiruchirapalli
Dr.P.Alagu Sundaramoorthy	Professor / Dept. of Civil Engineering, IITM, Chennai
Dr.Balaji Srinivasan	Professor / Dept. of Electrical Engineering, IITM, Chennai
Industrial Experts	
Dr.V.Veerappan	Cofounder & President, Tessolve Semiconductor Limited, Bangalore
Mr.M.Ganesh Thirunavukkarasu	Academic Relationship Manager – TN & P, Tata Consultancy Services Limited, Chennai
Dr.V.Narayanan	Director, LPSC, Indian Space Research Organization, Thiruvananthapuram
Mr.N.Lakshmi Narasimhan	General Manager – HR, Brakes India Private Limited, Chennai
Ms.A.Bhanurekha	Principal Officer, Chola Academy, Chennai

Shri. Utpal Borah	Scientist, IGCAR, Kalpakkam, Chennai
Mr.Srikanth Balasundaram	Orion Innovation, Information Technology and Services Edison, Chennai
University Nominees	
Dr. S.Valli	Professor / Dept. of CSE, Anna University, Chennai
Dr. Ranjani Parthasarathy	Professor / Dept. of IST, Anna University, Chennai
Dr.R.Saravanan	Professor / Dept. of Mechanical Engg., Anna University, Chennai
Special Invitees	
Dr.S.Shanmugavel	Director, National Engineering College
Dr.D.Manimegalai	Controller of Examinations, National Engineering College
Internal Members	
Dr. S.Tamil Selvi	Dean (Academic) & Prof. / ECE, National Engg. College
Dr.M.A.Neelakantan	Dean (R&D) & Head / S & H, National Engineering College
Dr.K.G.Srinivasagan	Dean (TCP) & Head / IT, National Engineering College
Dr.K.Manisekar	Prof. & Head / Mechanical, National Engineering College
Dr.A.Shenbagavalli	Prof. & Head / ECE, National Engineering College
Dr.V.Gomathi	Prof. & Head / CSE, National Engineering College
Dr.M.Willjuice Iruthayarajan	Prof. & Head / EEE, National Engineering College
Dr.C.Puthiyasekar	Prof. & Head / Civil, National Engineering College
Dr. S.Rammurthy	Prof. / Mathematics, National Engineering College
Dr.L.Kalaivani	Prof. / EEE, National Engineering College
Dr.R.Rajakumari	Asst. Prof. (SG) / CSE, National Engineering College
Mr.M.Sathishkumar	Asst. Prof. / ECE, National Engineering College
Student Members	
Mr.T.Anandhavel	Third year Mechanical
Mr.Ganapathy	Second year ECE
Ms.S.Suji	Third year CSE
Ms.G.Muthu Janani	Final year EEE
Mr.A.Anandh	Third year IT
Mr. M.Sriram	Final year Civil



The Industrial Expert Members **Dr.V.Narayanan**, Director, LPSC, Indian Space Research Organization, Thiruvananthapuram, Mr.M.Ganesh Thirunavukkarasu, Academic Relationship Manager – TN & P, Tata Consultancy Services Limited, Chennai and Mr.Srikanth Balasundaram, Orion Innovation, Information Technology and Services Edison, Chennai could not attend the meeting due to their prior commitments and unavoidable circumstances.

The meeting began with the welcome address by the Principal, Chairman, Academic Council, National Engineering College. He outlined briefly the various agenda items to be presented in the meeting. Following the address by the Principal, the Dean (Academic) moved the following agenda items on behalf of the Principal.

The following agenda items are considered and approved by the 17th Academic Council

DA 17.01 TO CONFIRM THE MINUTES OF SIXTEENTH ACADEMIC COUNCIL MEETING HELD ON 09th DECEMBER 2021

The minutes of the **16th Academic Council meeting** held on **09/12/2021** were communicated to the members vide **Email dated 24/12/2021**. The comments received have been incorporated and placed for confirmation. The same was approved by the council.

- **Minutes of 16th Academic Council**
- **Action taken report for minutes of 16th Academic Council**

DA 17.02 TO CONSIDER AND APPROVE THE DISCUSSION TO AMEND CLAUSES 14.1.1 AND 11.2 OF REGULATIONS 2019 FOR UG DEGREE PROGRAMMES OF NATIONAL ENGINEERING COLLEGE

RESOLVED TO APPROVE the discussion to amend Clauses 14.1.1 and 11.2 of Regulations 2019 for UG degree programmes of NATIONAL ENGINEERING COLLEGE

- **AMENDMENTS OF UG REGULATIONS (R-2019)**

DA 17.03 TO CONSIDER AND APPROVE THE DISCUSSION TO AMEND CLAUSES 5.6 AND 12.4 OF REGULATIONS 2019 FOR PG DEGREE PROGRAMMES OF NATIONAL ENGINEERING COLLEGE

RESOLVED TO APPROVE the discussion to amend Clauses 5.6 and 12.4 of Regulations 2019 for PG degree programmes of NATIONAL ENGINEERING COLLEGE

- **AMENDMENTS OF PG REGULATIONS (R-2019)**

DA 17.04 TO CONSIDER AND APPROVE THE STANDING COMMITTEE MINUTES (24th Standing Committee Meeting Minutes on 27th Jan 2022 and 25th Standing Committee Meeting Minutes on 23rd June 2022)

RESOLVED TO APPROVE the standing committee minutes (24th Standing Committee Meeting Minutes on 27th Jan 2022 and 25th Standing Committee Meeting Minutes on 23rd June 2022)

➤ **Standing Committee Minutes**

DA 17.05 TO CONSIDER AND APPROVE THE ANNA UNIVERSITY MANDATORY ELECTIVE course – PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP (PRIEE) FOR B.E.ECE, B.E.CSE AND B.Tech.IT DEGREE PROGRAMMES UNDER R- 2019

RESOLVED TO APPROVE the Anna University mandatory Elective Course – (Professional Readiness for Innovation, Employability and Entrepreneurship) for B.E.ECE, B.E.CSE and B.TECH.IT Degree Programmes under R- 2019

➤ **PRIEE (Syllabus)**

BUSINESS BROUGHT FORWARD BY THE BOARD OF STUDIES

AGENDA FROM DEPARTMENT OF SCIENCE AND HUMANITIES

The Standing Committee of the Academic Council recommends, **Dr.M.A.Neelakantan, Chairman, Science and Humanities** to move the following items based on the decision of the Board of Studies in Science and Humanities.

SH 17.01 TO CONFIRM AND APPROVE THE CURRICULUM STRUCTURE AND FIRST YEAR SYLLABUS OF B.TECH. ARTIFICIAL INTELLIGENCE AND DATA SCIENCE PROGRAMME UNDER R- 2019

RESOLVED TO APPROVE the curriculum structure and First year Syllabus of B.Tech. Artificial Intelligence and Data Science Programme under R- 2019

➤ **B.Tech. AI & DS – Curriculum Structure and First year Syllabus**

AGENDA FROM DEPARTMENT OF MECHANICAL ENGINEERING

The Standing Committee of the Academic Council recommends, **Dr.K.Manisekar, Chairman, Mechanical Engineering** to move the following

items based on the decision of the Board of Studies in Mechanical Engineering.

ME 17.01 TO CONFIRM AND APPROVE THE SYLLABUS FOR OPEN ELECTIVE COURSES IN B.E. MECHANICAL ENGINEERING PROGRAMME UNDER R-2019

RESOLVED TO APPROVE the Syllabus for open elective courses in B.E. Mechanical Engineering Programme under R-2019

➤ **B.E. MECHANICAL – Open Elective Courses**

ME 17.02 TO CONSIDER AND APPROVE THE LIST OF EXAMINERS FOR END SEMESTER PROJECT VIVA-VOCE EXAMINATIONS - UG & PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the List of Examiners for End Semester Project Viva-voce Examinations - UG & PG degree Programme to be offered under R-2019

AGENDA FROM DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The Standing Committee of the Academic Council recommends, **Dr.A.Shenbagavalli, Chairman, Electronics and Communication Engineering** to move the following items based on the decision of the Board of Studies in Electronics and Communication Engineering.

EC 17.01 TO CONSIDER AND APPROVE THE ADDITIONAL ELECTIVE COURSES FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the additional elective courses for UG degree programme to be offered under R-2019

➤ **B.E. ECE – Elective course under R-2019**

EC 17.02 TO CONSIDER AND APPROVE THE ANNA UNIVERSITY MANDATORY ELECTIVE COURSE (PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP) TO BE OFFERED UNDER R-2019



RESOLVED TO APPROVE the Anna University Mandatory Elective Course (Professional Readiness for Innovation, Employability and Entrepreneurship) to be offered under R-2019

EC 17.03 TO CONSIDER AND APPROVE THE LIST OF EXAMINERS FOR END SEMESTER PROJECT VIVA-VOCE EXAMINATIONS - UG & PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the List of Examiners for End Semester Project Viva-voce Examinations - UG & PG degree Programme to be offered under R-2019

AGENDA FROM DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Standing Committee of the Academic Council recommends, **Dr. V.Gomathi, Chairman, Computer Science and Engineering** to move the following items based on the decision of the Board of Studies in Computer Science and Engineering.

CS 17.01 TO CONSIDER AND APPROVE THE ADDITIONAL ONE CREDIT SYLLABUS FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the additional one credit syllabus for UG degree programme to be offered under R-2019

➤ **B.E. CSE – One credit syllabus under R-2019**

CS 17.02 TO CONSIDER AND APPROVE THE REFINEMENT OF EXISTING COURSES FOR UG & PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the Refinement of existing courses for UG & PG degree programme to be offered under R-2019

CS 17.03 TO CONSIDER AND APPROVE THE ANNA UNIVERSITY MANDATORY ELECTIVE COURSE (PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP) TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the Anna University Mandatory Elective Course (Professional Readiness for Innovation, Employability and Entrepreneurship) to be offered under R-2019

CS 17.04 TO CONSIDER AND APPROVE THE LIST OF EXAMINERS FOR END SEMESTER PROJECT VIVA-VOCE EXAMINATIONS - UG & PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the List of Examiners for End Semester Project Viva-voce Examinations - UG & PG degree Programme to be offered under R-2019

AGENDA FROM DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

The Standing Committee of the Academic Council recommends, **Dr. M. Willjuice Iruthayarajan, Chairman, Electrical and Electronics Engineering** to move the following items based on the decision of the Board of Studies in Electrical and Electronics Engineering.

EE 17.01 TO CONSIDER AND APPROVE THE SYLLABUS OF PROGRAMME ELECTIVE COURSES FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the syllabus of Programme Elective courses for UG degree programme to be offered under R-2019

EE 17.02 TO CONSIDER AND APPROVE THE SYLLABUS OF ADDITIONAL ONE CREDIT COURSES FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the syllabus of additional one credit courses for UG degree programme to be offered under R-2019

➤ **B.E. EEE – One credit courses**

EE 17.03 TO CONSIDER AND APPROVE THE LIST OF EXAMINERS FOR END SEMESTER PROJECT VIVA-VOCE EXAMINATIONS - UG & PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019



RESOLVED TO APPROVE the List of Examiners for End Semester Project Viva-voce Examinations - UG & PG degree Programme to be offered under R-2019

AGENDA FROM DEPARTMENT OF CIVIL ENGINEERING

The Standing Committee of the Academic Council recommends, **Dr.C.PUTHIYASEKAR, Chairman, Civil Engineering** to move the following items based on the decision of the Board of Studies in Civil Engineering.

CE 17.01 TO CONSIDER AND APPROVE THE SYLLABUS OF ADDITIONAL ONE CREDIT COURSES FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the syllabus of additional one credit courses for UG degree programme to be offered under R-2019

➤ **B.E. Civil – One credit courses**

CE 17.02 TO CONSIDER AND APPROVE THE LIST OF EXAMINERS FOR END SEMESTER PROJECT VIVA-VOCE EXAMINATIONS - UG & PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the List of Examiners for End Semester Project Viva-voce Examinations - UG & PG degree Programme to be offered under R-2019

AGENDA FROM DEPARTMENT OF INFORMATION TECHNOLOGY

The Standing Committee of the Academic Council recommends, **Dr.K.G.SRINIVASAGAN, Chairman, Information Technology** to move the following items based on the decision of the Board of Studies in Information Technology.

IT 17.01 TO CONSIDER AND APPROVE THE SYLLABUS OF ADDITIONAL ONE CREDIT COURSES FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the syllabus of additional one credit courses for UG degree programme to be offered under R-2019

➤ **B.Tech. IT – One credit syllabus under R-2019**

IT 17.02 TO CONFIRM AND APPROVE THE CURRICULUM STRUCTURE OF B.TECH. ARTIFICIAL INTELLIGENCE AND DATA SCIENCE PROGRAMME UNDER R- 2019

RESOLVED TO APPROVE the curriculum structure of B.Tech. Artificial Intelligence and Data Science Programme under R- 2019

IT 17.03 TO CONSIDER AND APPROVE THE ANNA UNIVERSITY MANDATORY ELECTIVE COURSE (PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP) TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the Anna University Mandatory Elective Course (Professional Readiness for Innovation, Employability and Entrepreneurship) to be offered under R-2019

IT 17.04 TO CONSIDER AND APPROVE THE LIST OF EXAMINERS FOR END SEMESTER PROJECT VIVA-VOCE EXAMINATIONS - UG & PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the List of Examiners for End Semester Project Viva-voce Examinations - UG & PG degree Programme to be offered under R-2019

ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE ACADEMIC COUNCIL

Points suggested by the Academic Council

Members have given the following suggestions:

1. Three industry experts may be included in the list of examiners for the End Semester Project Viva-voce Examinations.
2. The procedure for NPTEL grading for UG degree programme may be adopted for PG degree programme also.
3. The course on Data Science may be introduced in all branches.
4. For CSE, one credit course - Kali Linux, practical component may be included.


CHAIRMAN / ACADEMIC COUNCIL

National ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI
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Actions Taken Report on Minutes of 16th Academic Council Meeting

S. No.	Action Initiated	Action Taken
1.	The amendments in Clause 11.3, 12.5, 14.1, 15.1 and 18.2 of Regulations 2019 For UG degree programmes	Implemented
2.	Transfer of student between Institutions in 3 rd semester B.Tech (IT)	Implemented
3.	For UG degree programmes under R- 2019 updated syllabus for Product Development Laboratory	Implemented
4.	For online courses, if the course experts available inside the institution then allow them to choose the particular courses. It will help to evaluate the students	Implemented
5.	For Mechanical Engineering, <ul style="list-style-type: none">• The Syllabus of “Product Life Cycle Management” and revision of “Product Development Laboratory” as an integrated course	Incorporated in the curriculum
6.	For ECE, <ul style="list-style-type: none">• The syllabus of new elective courses and One Credit Courses for UG degree programme under R-2019• The syllabus of new elective courses for PG degree programme under R-2019• DBMS syllabus to be changed as relevant to IOT	Incorporated in the curriculum
7.	For CSE, <ul style="list-style-type: none">• The syllabus of new Elective Courses and One credit course for UG degree programme under R-2019	Incorporated in the curriculum



8.	<p>For EEE,</p> <ul style="list-style-type: none"> • The introduction of new one credit Course "Switchgear and Protection Laboratory" for UG degree programme under R-2019 • The syllabus of Programme Elective courses for UG degree programme under R-2019 	Incorporated in the curriculum
9.	<p>For IT,</p> <ul style="list-style-type: none"> • The Business Project Management – A core course may be shifted from 7th semester to 6th semester. A programme elective course may be shifted from 6th semester to 7th semester 	Incorporated in the curriculum




 CHAIRMAN / ACADEMIC COUNCIL

17th ACADEMIC COUNCIL MEETING on 26.07.2022

WEBEX ONLINE MEET LINK

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NEC - 17th Academic Council Meeting-20220726 0900-1

 National Engineering College, Kovilpatti	Dean Academic	Balaji Srinivasan, Il...	Ranjani
 Prof. Dr. R. Raju	Utpal Borah	Suji S	SRIRAM KUMAR D
	Bhanurekha	P. Alagusundaramo...	



GPS Map Camera

Nallatinputhur, Tamil Nadu, India
4RXJ+8V3, Nallatinputhur, Tamil Nadu 628503, India
Lat 9.148476°
Long 77.832335°
26/07/22 11:47 AM

