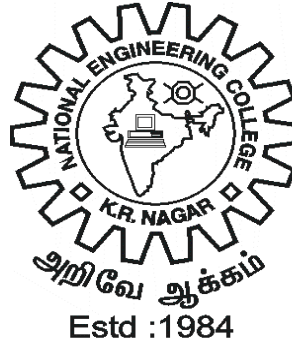


NATIONAL ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University Chennai)

K.R.NAGAR, KOVILPATTI – 628 503



15th ACADEMIC COUNCIL MEETING – MINUTES

03rd JULY 2021 @ 10.00 AM

GOOGLE ONLINE MEET

Link: <https://meet.google.com/iyr-ispv-gwh>

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



THE MINUTES OF THE 15th ACADEMIC COUNCIL

MINUTES OF THE 15th ACADEMIC COUNCIL MEETING HELD ON **03.07.2021** AT **10.00 A.M.** IN THE GOOGLE ONLINE MEET LINK <https://meet.google.com/iyr-ispv-gwh>, 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 – 50
Ms.A.Bhanurekha	Principal Officer, Chola Academy, Chennai – 01
Shri. Utpal Borah	Scientist, IGCAR, Kalpakkam, 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.I.Jackson Daniel	Prof. & Head / EIE, 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
Ms. R.Rajakumari	Asst. Prof. (SG) / CSE, National Engineering College
Mr. M.Sathishkumar	Asst. Prof. / ECE, National Engineering College
Student Members	
Mr.J.Sam Joebin	Third year Mechanical
Ms.M.Shenbagaramya	Third year ECE
Mr.P.Manickavasagan	Third year CSE
Ms.G.Muthu Janani	Third year EEE
Ms.K.Marieshwari	Third year EIE
Mr.A.Anandh	Second year IT
Ms.A.Anto Nevis Presentia	Third year Civil

The Industrial Expert Member **Dr.V.Narayanan**, Director, LPSC, Indian Space Research Organization, Thiruvananthapuram and University Nominee **Dr.R.Saravanan**, Professor / Dept. of Mechanical Engineering, Anna University, 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 15th Academic Council

DA 15.01 TO CONSIDER AND APPROVE THE ACADEMIC PROCESS CARRIED OUT FOR UG AND PG DEGREE PROGRAMMES
RESOLVED TO APPROVE the academic process carried out for UG and PG degree programmes

DA 15.02 TO CONSIDER AND APPROVE CONDUCTION OF ONLINE END SEMESTER EXAMINATIONS FOR UG AND PG PROGRAMMES
RESOLVED TO APPROVE conduction of Online End Semester Examinations for UG and PG programmes

DA 15.03 TO CONFIRM THE MINUTES OF FOURTEENTH ACADEMIC COUNCIL MEETING HELD ON 08th JANUARY 2021
The minutes of the **14th Academic Council meeting** held on **08/01/2021** were communicated to the members vide **Email dated 20/01/2021**. The comments received have been incorporated and placed for confirmation. The same was approved by the council.

➤ **Minutes of 14th Academic Council**

➤ **Action taken report for minutes of 14th Academic Council**

DA 15.04 TO CONSIDER AND APPROVE THE AMENDMENTS IN CLAUSE 4.6.1 OF REGULATIONS 2019 FOR UG DEGREE PROGRAMMES OF NATIONAL ENGINEERING COLLEGE

RESOLVED TO APPROVE the amendments in Clause 4.6.1 of Regulations 2019 For UG degree programmes of NATIONAL ENGINEERING COLLEGE

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

BUSINESS BROUGHT FORWARD BY THE BOARDS OF STUDIES**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 15.01 TO CONSIDER AND APPROVE THE SYLLABUS OF PROFESSIONAL ELECTIVE COURSES (MANUFACTURING MODULE) IN B.E. MECHANICAL ENGINEERING PROGRAMME UNDER R-2019

RESOLVED TO APPROVE the syllabus of professional elective courses (Manufacturing Module) in B.E Mechanical Engineering programme under R-2019

ME 15.02 TO CONSIDER AND APPROVE THE SYLLABUS OF PROFESSIONAL ELECTIVE COURSES (INDUSTRY ENGINEERING MODULE) IN B.E. MECHANICAL ENGINEERING PROGRAMME UNDER R-2019

RESOLVED TO APPROVE the syllabus of professional elective courses (Industry Engineering Module) in B.E. Mechanical Engineering Programme under R-2019

➤ **B.E. MECHANICAL – Professional Elective Course R-2019**

ME 15.03 TO CONSIDER AND APPROVE THE SYLLABUS OF OPEN ELECTIVE COURSES GROUP – IV (MANAGEMENT SKILLS) IN B.E. MECHANICAL ENGINEERING PROGRAMME UNDER R-2019.

RESOLVED TO APPROVE the syllabus of Open Elective Courses Group – IV (Management Skills) in B.E. Mechanical Engineering programme under R-2019

➤ **B.E. MECHANICAL – Open Elective course syllabus R-2019**

ME 15.04 TO CONSIDER AND APPROVE THE 3-CREDIT COURSE ON “HYBRID ELECTRIC VEHICLES” AS A PROGRAMME ELECTIVE UNDER THERMAL MODULE

RESOLVED TO APPROVE the 3-credit course on “Hybrid Electric Vehicles” as a programme elective under Thermal Module

ME 15.05 TO CONSIDER AND APPROVE THE SYLLABUS OF ONE CREDIT COURSES IN B.E. MECHANICAL ENGINEERING PROGRAMME UNDER R-2019

RESOLVED TO APPROVE the syllabus of one credit elective courses in B.E. Mechanical Engineering programme under R-2019

➤ **B.E. MECHANICAL – One Credit Elective course syllabus R-2019**

ME 15.06 TO CONSIDER AND APPROVE THE STATEMENT OF PROGRAM SPECIFIC OUTCOMES (PSO) OF MECHANICAL ENGINEERING DEPARTMENT

DISCUSSED AND RECOMMENDED the statement of Program Specific Outcomes (PSO) of Mechanical Engineering Department

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 15.01 TO CONSIDER AND APPROVE THE SYLLABUS FOR 16 ELECTIVE COURSES FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the syllabus for 16 elective courses for UG degree programme to be offered under R-2019

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

EC 15.02 TO CONSIDER AND APPROVE THE ONE CREDIT COURSES FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the One Credit Courses for UG degree programme to be offered under R-2019

➤ **B.E. ECE - One Credit Course Syllabus 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 15.01 TO CONSIDER AND APPROVE THE SYLLABUS OF COMPREHENSION (CORE COURSE), ELECTIVE COURSES AND ONE CREDIT COURSE FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019**

RESOLVED TO APPROVE the syllabus of Comprehension (Core Course), Elective Courses and One credit course for UG degree programme to be offered under R-2019

➤ **B.E. CSE –Syllabus 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 15.01 TO CONSIDER AND APPROVE THE INTRODUCTION OF NEW ELECTIVE COURSE IN CURRICULUM FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019**

RESOLVED TO APPROVE the introduction of new elective Course "Mobile Robots and Control" for UG degree programme to be offered under R-2019

➤ **B.E. EEE – Syllabus under R-2019**

- EE 15.02 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

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 15.01 TO CONSIDER AND APPROVE THE RECATEGORIZING OF ELECTIVE COURSES FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the Recategorizing of Elective Courses for UG degree programme to be offered under R-2019

➤ **B.Tech. IT – Syllabus under R-2019**

AGENDA FROM DEPARTMENT OF CIVIL ENGINEERING

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

CE 15.01 TO CONSIDER AND APPROVE THE SYLLABUS OF PROGRAMME ELECTIVE COURSES, ONE CREDIT COURSES FOR UG DEGREE PROGRAMME UNDER REGULATIONS 2019

RESOLVED TO APPROVE the syllabus of Programme Elective Courses, One Credit Courses for UG degree programme under Regulations 2019

➤ **B.E. – CIVIL Syllabus 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. The committee appreciated the Management, Director, Principal, HODs and all the faculties for their good initiatives, effective teaching learning process and massive work done during the pandemic situation for the benefit of Students.

2. For credit transfer of NPTEL courses, one NPTEL course may be allowed for PG courses, preferably it may be an elective course.
3. For UG courses, the following duration shall be followed for credit transfer of NPTEL courses.

No. of weeks	No. of credit
4 weeks	1 credit
8 weeks	2 credit
12 weeks	3 credit

4. In Mechanical Engineering, the course of Composite Materials, separate laboratory will be added or it may be considered as integrated course.
5. In Electronics and Communication Engineering, Artificial Intelligence may be included in one unit in Machine Learning Techniques course.
6. In Civil Engineering, Theory of Plates and Design of Shell Structures can be combined and it will be offered as Theory of Plates and Shells with the introduction of Theory of Elasticity as one unit.
7. In Information Technology, a one credit course may be introduced in the curriculum "Managing online classes".



CHAIRMAN / ACADEMIC COUNCIL

National ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI
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Actions Taken Report on Minutes of 14th Academic Council Meeting

S. No.	Action Initiated	Action Taken
1.	Academic process carried out for UG and PG degree programmes	Implemented
2.	Conduction of Online End Semester Examinations for UG and PG programmes	Implemented
3.	One time Amendments to clause 4.5.1, 11.2 and 12.1 of Regulations 2015 & Regulations 2019 for UG degree programmes	Implemented (Applicable to Covid'19 Pandemic period)
4.	NEC Innovation and Start-up policy (NEC-ISP) 2020	Implemented
5.	One or two descriptive courses by fully online mode by NEC faculty	Implemented
6.	Syllabus of Innovation through Design Thinking to promote the Innovation Skill leading to completion of projects for UG degree programme	Implemented
7.	Open elective courses in all PG degree programmes shall be considered as elective courses under R-2019	Implemented
8.	<p>For Mechanical Engineering,</p> <ul style="list-style-type: none"> • Introduction to AI based additional open elective courses under R-2019 • Change of course name in the UG curriculum under R-2019 • Professional elective courses (Thermal Module, Design Module) in the UG curriculum under R-2019 • Include Hybrid Electric Vehicle course and different type of batteries to be included in the syllabus. 	Incorporated in the curriculum
9.	<p>For ECE,</p> <ul style="list-style-type: none"> • Syllabus of Core Courses, Elective courses, Open Elective and One credit courses in UG Degree programme under R-2019 • Syllabus of the comprehension courses to test the employability skills for UG degree programme under R-2019 • Emerging topics may be included in the syllabus for the course Wireless Communication 	Incorporated in the curriculum
10.	<p>For CSE,</p> <ul style="list-style-type: none"> • Syllabus of Elective courses, Open Elective and One credit courses in UG Degree programme under R-2019 	Incorporated in the curriculum

	<ul style="list-style-type: none"> • Syllabus of Open Elective courses for B.E. Mechanical Engineering Degree programme under R-2019 • Syllabus of the comprehension courses to test the employability skills for UG degree programme under R-2019 	
11.	<p>For EEE,</p> <ul style="list-style-type: none"> • Syllabus of Core courses, Elective courses, Open Elective and One credit courses in UG Degree programme under R-2019 • Syllabus of the comprehension courses to test the employability skills for UG degree programme under R-2019 	Incorporated in the curriculum
12.	<p>For IT,</p> <ul style="list-style-type: none"> • Syllabus of Core courses, Elective courses, Open Elective and One credit courses in UG Degree programme under R-2019 • Syllabus of additional Elective courses for PG Degree programme under R-2019 • Syllabus of the comprehension courses to test the employability skills for UG degree programme under R-2019 • Full stack development course added in the curriculum 	Incorporated in the curriculum
13.	<p>For Civil,</p> <ul style="list-style-type: none"> • Syllabus of Core courses, Elective courses, Open Elective and One credit courses in UG Degree programme under R-2019 • Modification in curriculum of one credit course (INTELLIGENT BUILDING MARKING IS CHANGED AS BUILDING MARKING) under Regulations 2019 	Incorporated in the curriculum



CHAIRMAN
ACADEMIC COUNCIL

AMENDMENTS IN R-2019 (15th Academic Council Meeting on 03.07.2021)

AMENDMENTS TO CLAUSE 4.6.1, 12.5.1 AND 15.1 (b) OF R-2019 UG DEGREE PROGRAMMES OF NATIONAL ENGINEERING COLLEGE

UNDER GRADUATE DEGREE PROGRAMMES	
Existing UG Regulations - 2019	Amended UG Regulations - 2019
<p>4.6 ONLINE COURSES / SELF STUDY COURSES</p> <p>4.6.1 Students may be permitted to earn credit through online courses (which are provided with certificate) with the approval of Head of the Department and Dean (Academic) subject to a maximum of 6 credits. The credit may be transferred with the due approval procedures as per clause 15 (iv) for either programme elective or open elective course. However, the course for which he/she is requesting credit transfer should not have been offered by the department concerned in any of the semester.</p>	<p>4.6 ONLINE COURSES / SELF STUDY COURSES</p> <p>4.6.1 Students may be permitted to earn credit through online courses (which are provided with certificate) with the approval of Head of the Department and Dean (Academic) subject to a maximum of 15 credits. The credit may be transferred with the due approval procedures as per clauses 15.1 (b) for either programme core, elective, one credit or open elective course. However, for core courses, before course registration for the corresponding semester in which the course is offered, the student has to submit the certificate with valid score to Dean (Academic) Office.</p>
<p>12.5.1 Students shall undergo online courses (which are provided with Certificate) with the approval of Department & Dean (Academic) subject to a maximum of 6 credits. The approved list of online courses will be provided by the office of Dean Academic from time to time. This online course of 3 credits/ three one-credit courses can be considered instead of one elective course (Interdisciplinary /</p>	<p>12.5.1 Students may study online courses (which are provided with Certificate) with the approval of Department & Dean (Academic) subject to a maximum of 15 credits. The approved list of online courses will be provided by the office of Dean Academic from time to time. The Credit Equivalence shall be followed as:</p>

UNDER GRADUATE DEGREE PROGRAMMES	
Existing UG Regulations - 2019	Amended UG Regulations - 2019
Programme Core Elective).	The NPTEL online course with minimum of 15 contact hours or 4 weeks duration may be considered as equivalent to one credit. Online courses with one, two, three and four credit may be considered for credit transfer.
15.1 (b) NIL	15.1 (b) For converting the marks obtained in the online courses into a letter grade and grade points, the procedure detailed in clause 15.1(a) & Table - 17 shall be followed. For this purpose, the maximum and minimum marks awarded for passing requirement shall be obtained from the agency which conducts the online courses. However, if the mark secured by the student is above the minimum passing requirement and less than 50, he/she will be awarded with B Grade for the online NPTEL courses.

15TH ACADEMIC COUNCIL MEETING ON 03.07.2021

15th Academic Council Meeting (2021-07-02 at 21_39 GMT-7)

15TH AC MEETINGS - Microsoft PowerPoint

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

15TH ACADEMIC COUNCIL MEETING

Google Meet Link: meet.google.com/lyr-ispv-qwh

Click to add notes

14:58

12:31 PM 7/14/2021

This screenshot shows a Google Meet window displaying a PowerPoint presentation. The presentation slide features the logo of National Engineering College, an autonomous institution affiliated to Anna University Chennai, located at K.R. Nagar, Kovilpatti - 628 503. The slide is titled "15TH ACADEMIC COUNCIL MEETING" and provides a Google Meet link: meet.google.com/lyr-ispv-qwh. The meeting is titled "15th Academic Council Meeting (2021-07-02 at 21_39 GMT-7)". A video thumbnail on the right shows the Dean Academic. The Windows taskbar at the bottom shows the time as 14:58 and the date as 12:31 PM 7/14/2021.

15th Academic Council Meeting (2021-07-02 at 21_39 GMT-7)

https://meet.google.com/lyr-ispv-qwh

attachments (evaluation copy)

Name	Size	Type	Modified
15TH AC MEE...	793	Microsoft Office P...	7/3/2021 10:23 ...
15th AC Meeti...	362	Microsoft Office P...	7/3/2021 10:30 ...
15th AC Meeti...	5,976,091	Adobe Acrobat Do...	7/3/2021 10:20 ...
15TH AC MEET...	18,154	Microsoft Office ...	7/3/2021 10:20 ...
15TH AC MEET...	1,800,131	Microsoft Office P...	7/3/2021 10:20 ...
Action taken rep...	23,654	Microsoft Office ...	7/3/2021 10:20 ...
Budget proposal...	18,248	Microsoft Office ...	7/3/2021 10:20 ...
Circular - 1st A...	11,581	Microsoft Office ...	7/3/2021 10:20 ...
Credit transfer P...	12,406	Microsoft Office ...	7/3/2021 10:20 ...
Inviting letter.doc	54,485	Microsoft Office ...	7/3/2021 10:20 ...
Minutes for disc...	14,918	Microsoft Office ...	7/3/2021 10:20 ...
pp107E1.docx	1,675,725	TMP File	7/3/2021 10:20 ...
E&D policy fina...	34,257	Microsoft Office ...	7/3/2021 10:20 ...
15TH AC Meeti...	852,921	Adobe Acrobat Do...	7/3/2021 10:20 ...
15TH AC Meeti...	392,858	Adobe Acrobat Do...	7/3/2021 10:20 ...
15TH AC Meeti...	948,373	Adobe Acrobat Do...	7/3/2021 10:20 ...

Total: 17,286,193 bytes in 17 files

10:52 AM | 15th Academic Council Meeting

42:46

12:33 PM 7/14/2021

This screenshot shows a Google Meet window with a file explorer window open, displaying a list of attachments. The attachments include various Microsoft Office documents, Adobe Acrobat PDFs, and a TMP file. The meeting is titled "15th Academic Council Meeting (2021-07-02 at 21_39 GMT-7)". A video thumbnail on the right shows the Dean Academic. The Windows taskbar at the bottom shows the time as 10:52 AM and the date as 12:33 PM 7/14/2021.