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

ELEVENTH – ACADEMIC COUNCIL MEETING

Date: 29/06/2019   **Time: 10.00 A.M**

Venue: Conference Hall of the Administrative Block

AGENDA

- ى WELCOME ADDRESS

- ى SPECIAL ADDRESS

- ى Confirmation of Minutes of 10th Academic Council Meet

- ى Amendments in Regulation 2015 for UG Degree Programmes

- ى Amendments in Regulation 2019 for UG Degree Programmes

- ى Rules for Examination and evaluation of UG / PG Degree Programme

- ى Syllabus for II year B.E. / B.Tech. Degree Programme under R-2019

- ى Syllabus for M.E. / M.Tech. Degree Programme under R-2019

- ى Additional one credit courses in UG degree programme under R-2015

- ى ANY OTHER MATTER

- ى VOTE OF THANKS

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

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THE MINUTES OF THE 11th ACADEMIC COUNCIL

MINUTES OF THE ELEVENTH ACADEMIC COUNCIL MEETING HELD ON **29.06.2019** AT **10.30 A.M.** IN THE CONFERENCE HALL OF ADMINISTRATIVE BLOCK, NATIONAL ENGINEERING COLLEGE, KOVILPATTI UNDER THE CHAIRMANSHIP OF **Dr.K.KALIDASA MURUGAVEL**, PRINCIPAL

The following members were present:

Dr.K.Kalidasa Murugavel	Principal, National Engineering College
Academic Experts	
Dr.R.Raju	Director – Centre for Academic Courses, College of Engineering, Guindy, 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	
Mr.M.Ganesh Thirunavukkarasu	Academic Relationship Manager – TN & P, Tata Consultancy Services Limited, Chennai
Dr.V.Veerappan	Cofounder & President, Tessolve Semiconductor Limited, Bangalore
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 Engineering, Anna University, Chennai
Special Invitees	
Dr.S.Shanmugavel	Director, National Engineering College
Dr.V.Seenivasagam	Controller of Examinations, National Engineering College
Internal Members	
Dr.K.Manisekar	Dean (Academics) & Head / Mechanical, National Engineering College
Dr.M.A.Neelakantan	Dean (R&D) & Head / S & H, National Engineering College
Dr.K.G.Srinivasagan	Dean (TCP) & Prof. / CSE, National Engineering College
Dr.A.Shenbagavalli	Prof. & Head / ECE, National Engineering College
Dr.S.Tamil Selvi	Prof. & Head / ECE (PG), 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.D.Manimegalai	Prof. & Head / IT, National Engineering College
Dr.C.Puthiyasekar	Prof. & Head / Civil, National Engineering College
Dr.D.Ravindran	Prof. / Mechanical, 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
Student Members	
Mr. Aravind Prabaharan	Final year Mechanical
Mr. M.Vigneshwaran	Final year ECE
Ms. J.Janofer Ibrahima	Final year CSE
Mr. M.Pandaravel Kannan	Final year EEE
Ms. M.Meera	Final year EIE
Mr. P.Muthukumar	Final year IT
Ms. K.Suhaachine	Final year Civil

The University Nominee member **Dr.S.Valli**, Professor / CSE, Anna University, Chennai, Industrial Expert Members **Dr.V.Veerappan**, Cofounder & President, Tessolve Semiconductor Limited, Bangalore, **Dr.V.Narayanan**, Director, LPSC, Indian Space Research Organization, Thiruvananthapuram, **Mr.M.Ganesh Thirunavukkarasu**, Academic Relationship Manager – TN&P, Tata Consultancy Services, Chennai and Academic Expert member **Dr.Balaji Srinivasan**, Professor / Electrical Engineering, IITM, 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 at the meeting. He also described the various committees and academic meetings held to formulate the structure of the rules for examination and evaluation of the UG and PG programmes, syllabus for second year UG degree Programmes to be offered under Regulation 2019. After the formal welcome, he requested the Director to deliver the Special Address.

The Director while addressing the Council, highlighted that the designing of regulation, curriculum and syllabus under Regulation 2019 would be discussed in the Academic Council.

Following the address by the Director, the Dean (Academic) moved the following agenda items on behalf of the Principal.

The following agenda items are considered and approved by the 10th Academic Council

DA 11.01   **TO CONFIRM** THE MINUTES OF TENTH ACADEMIC COUNCIL MEETING HELD ON 01st DECEMBER 2018

The minutes of the **Tenth Academic Council meeting** held on **01/12/2018** were communicated to the members vide **Email dated 14/12/2018.** The comments received have been incorporated and placed for confirmation. The same was approved by the council.

> ➢ **Minutes of 10th Academic Council**
> ➢ **Action taken report for minutes of 10th Academic Council**

DA 11.02   **TO CONSIDER AND APPROVE** THE AMENDMENTS TO CLAUSE 6.9, 14.0 (i), 15.1 AND 15.1 (ii) OF REGULATIONS 2015 FOR UG DEGREE PROGRAMMES OF NATIONAL ENGINEERING COLLEGE

RESOLVED TO APPROVE the amendments to Clause 6.9, 14.0 (i), 15.1 and 15.1 (ii) of Regulations 2015 for UG degree programmes of National Engineering College

> ## AMENDMENTS – UG REGULATIONS 2015

DA 11.03   **TO CONSIDER AND APPROVE** THE AMENDMENTS TO CLAUSE 15.1 AND 15.1 (ii) OF REGULATIONS 2019 FOR UG DEGREE PROGRAMMES OF NATIONAL ENGINEERING COLLEGE

RESOLVED TO APPROVE the amendments to Clause 15.1 and 15.1 (ii) of Regulations 2019 for UG degree programmes of National Engineering College

> ## AMENDMENTS – UG REGULATIONS 2019

DA 11.04   **TO CONSIDER AND APPROVE** THE APPOINTMENT OF EXTERNAL EXAMINERS AND MODERATORS FOR QUESTION PAPERS SETTING

RESOLVED TO APPROVE the appointment of external examiners and moderators for question papers setting

DA 11.05   **TO CONSIDER AND APPROVE** THE RULES FOR EXAMINATION AND EVALUATION OF UG AND PG PROGRAMMES OF NATIONAL ENGINEERING COLLEGE

RESOLVED TO APPROVE the rules for examination and evaluation of UG AND PG degree programmes of National Engineering College.

> ## Rules for Examination and Evaluation

BUSINESS BROUGHT FORWARD BY THE BOARD OF STUDIES

AGENDA FROM DEPARTMENT OF MECHANICAL ENGINEERING

The Standing Committee of the Academic Council recommends, **Dr. K.Manisekar, Chairman, Mechanical Engineering** moves the following items based on the decision of the Board of Studies in Mechanical Engineering.

ME 11.01   TO CONSIDER AND APPROVE THE SECOND YEAR SYLLABUS FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the second year syllabus for UG degree programme to be offered under R-2019

  ➤ **B.E. MECHANICAL – Second year Syllabus**

ME 11.02   TO CONSIDER AND APPROVE THE M.E. ENERGY ENGINEERING CURRICULUM AND SYLLABUS FOR PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the M.E. Energy Engineering curriculum and syllabus for PG degree programme to be offered under R-2019

  ➤ **M.E. Energy Engineering Curriculum & Syllabus**

ME 11.03   TO CONSIDER AND APPROVE THE LIST OF EXAMINERS FOR MECHANICAL BOARD

RESOLVED TO APPROVE the list of examiners for Mechanical Board

  ➤ **List of Examiners**

AGENDA FROM DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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

EC 11.01   TO CONSIDER AND APPROVE THE SECOND YEAR SYLLABUS FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the second year syllabus for UG degree programme to be offered under R-2019

  ➤ **B.E. ECE – Second year Syllabus**

EC 11.02   **TO CONSIDER AND APPROVE THE M.E. EMBEDDED SYSTEM TECHNOLOGIES CURRICULUM AND SYLLABUS FOR PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019**

RESOLVED TO APPROVE the M.E. Embedded System Technologies curriculum and syllabus for PG degree programme to be offered under R-2019

> **M.E. EST Curriculum & Syllabus**

EC 11.03   **TO CONSIDER AND APPROVE THE LIST OF EXAMINERS FOR ECE BOARD**

RESOLVED TO APPROVE the list of examiners for ECE Board

> **List of Examiners**

AGENDA FROM DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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

CS 11.01   **TO CONSIDER AND APPROVE THE SECOND YEAR SYLLABUS FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019**

RESOLVED TO APPROVE the second year syllabus for UG degree programme to be offered under R-2019

> **B.E. CSE – Second year Syllabus**

CS 11.02   **TO CONSIDER AND APPROVE** THE M.E. COMPUTER SCIENCE AND ENGINEERING SYLLABUS FOR PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the M.E. Computer Science and Engineering syllabus for PG degree programme to be offered under R-2019

> **M.E. CSE – Syllabus**

CS 11.03   **TO CONSIDER AND APPROVE** THE ADDITIONAL ONE CREDIT COURSES FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2015

RESOLVED TO APPROVE the additional one credit courses UG degree programme to be offered under R-2015

> **List of One credit courses**

CS 11.04   **TO CONSIDER AND APPROVE THE LIST OF EXAMINERS FOR CSE BOARD**

RESOLVED TO APPROVE the list of examiners for CSE Board

> **List of Examiners**

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** moves the following items based on the decision of the Board of Studies in Electrical and Electronics Engineering**.**

EE 10.01   **TO CONSIDER AND APPROVE** THE SECOND YEAR SYLLABUS FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the second year syllabus for UG degree programme to be offered under R-2019

> **B.E. EEE – Second year Syllabus**

EE 11.02   **TO CONSIDER AND APPROVE THE** M.E. HIGH VOLTAGE ENGINEERING SYLLABUS FOR PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the M.E. High Voltage Engineering syllabus for PG degree programme to be offered under R-2019

> **M.E. HVE – Syllabus**

EE 11.03   **TO CONSIDER AND APPROVE** THE ADDITIONAL ONE CREDIT COURSES FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2015

RESOLVED TO APPROVE the additional one credit courses UG degree programme to be offered under R-2015

> ➤ **List of One credit courses**

EE 11.04   **TO CONSIDER AND APPROVE THE LIST OF EXAMINERS FOR EEE BOARD**

RESOLVED TO APPROVE the list of examiners for EEE Board

> ➤ **List of Examiners**

AGENDA FROM DEPARTMENT OF INFORMATION TECHNOLOGY

The Standing Committee of the Academic Council recommends, **Dr. D.Manimegalai, Chairman, Information Technology** moves the following items based on the decision of the Board of Studies in Information Technology**.**

IT 11.01   **TO CONSIDER AND APPROVE** THE SECOND YEAR SYLLABUS FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the second year syllabus for UG degree programme to be offered under R-2019

> ➤ **B.Tech. IT – Second year Syllabus**

IT 11.02   **TO CONSIDER AND APPROVE** THE M.TECH. INFORMATION TECHNOLOGY SYLLABUS FOR PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the M.Tech. Information Technology syllabus for PG degree programme to be offered under R-2019

> ➤ **M.Tech. IT – Syllabus**

IT 11.03   **TO CONSIDER AND APPROVE** THE ADDITIONAL ONE CREDIT COURSES FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2015

RESOLVED TO APPROVE the additional one credit courses UG degree programme to be offered under R-2015

> ➤ **List of One credit courses**

IT 11.04   **TO CONSIDER AND APPROVE THE LIST OF EXAMINERS FOR IT BOARD**

RESOLVED TO APPROVE the list of examiners for IT Board

> ➢ **List of Examiners**

AGENDA FROM DEPARTMENT OF CIVIL ENGINEERING

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

CE 11.01   **TO CONSIDER AND APPROVE** THE MODIFICATION OF CURRICULUM FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the modification of curriculum for UG degree programme to be offered under R-2019

> ➢ **B.E. – CIVIL Curriculum**

CE 11.02   **TO CONSIDER AND APPROVE** THE SECOND YEAR SYLLABUS FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the second year syllabus for UG degree programme to be offered under R-2019

> ➢ **B.E. – CIVIL Second year Syllabus**

CE 11.03   **TO CONSIDER AND APPROVE** THE LIST OF EXAMINERS FOR CIVIL ENGINEERING BOARD

RESOLVED TO APPROVE the list of examiners for Civil Engineering board

> ➢ **List of Examiners**

AGENDA FROM DEPARTMENT OF SCIENCE AND HUMANITIES

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

SH 11.01   **TO CONSIDER AND APPROVE** THE LIST OF EXAMINERS FOR SCIENCE AND HUMANITIES BOARD

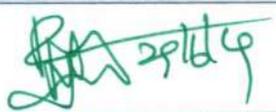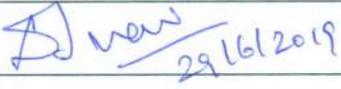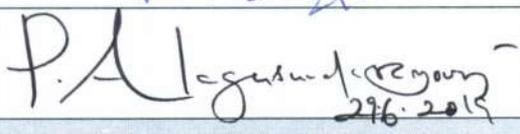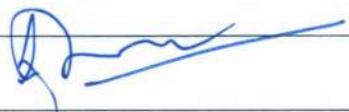**RESOLVED TO APPROVE** the list of examiners for Science and Humanities board
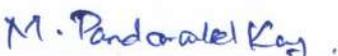
> **List of Examiners**

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

Points suggested by the Academic Council

1. Members suggested that the question papers for end semester examination may be set by Internal faculty for all the subjects and from External faculty for randomly selected subjects. The controller can opt any one question paper for the end semester examination. The question setter should prepare the answer key also.

2. Members appreciated the efforts taken by the college to show the answer sheets to the students before the declaration of results

3. University nominee appreciated the Curriculum Design of R-2019 which adopts AICTE model.

4. The elective courses may be grouped based on domain for all the programmes.

5. For CSE, application level exercises may be given for Object oriented programming laboratory.

6. Computer Organization and Architecture course may be shifted to 4th semester.

7. For Environmental Science and Engineering course, 3 hours lecture should be given. This is to be followed for all the mandatory courses.

8. For EEE, in the Mathematics course, Mathematical logic unit may be removed and accordingly the syllabus may be revised.

9. For IT, the Syllabus for the course Information Technology Essentials may be modified and shifted to 4th semester and Principles of Data Communication course may be shifted to 3rd semester.

10. For Civil Engineering, in Survey courses and the Applied Hydraulics course tutorial hours may be converted into lecture hours.

Members Present

Dr.K.Kalidasa Murugavel Academic Council Chairman National Engineering College	
Academic Experts	
Dr.R.Raju Director – Centre for Academic Courses, Anna University, Chennai	
Dr.D.Sriram Kumar Professor / Dept. of ECE, NIT, Tiruchirapalli	
Dr.P.Alagu Sundaramoorthy Professor / Dept. of Civil Engineering, IITM, Chennai	
Industrial Experts	
Dr.V.Veerappan Cofounder & President, Tessolve Semiconductor Limited, Bangalore	Absent
Ms.A.Bhanurekha Principal Officer, Chola Academy, Chennai	
Mr.N.Lakshmi Narasimhan General Manager – HR, Brakes India Private Limited, Chennai	
Shri. Utpal Borah Scientist, IGCAR, Kalpakkam, Chennai	
University Nominees	
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	
Dr.V.Seenivasagam Controller of Examinations	
Internal Members	
Dr.K.Manisekar Dean (Academic) & Head / Mechanical	
Dr.M.A.Neelakantan Dean (R&D) & Head / S & H	
Dr.K.G.Srinivasagan Dean (TCP) & Prof. / CSE	
Dr.A.Shenbagavalli Prof. & Head / ECE	
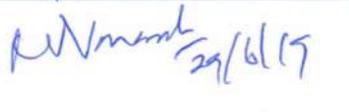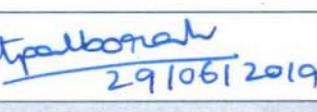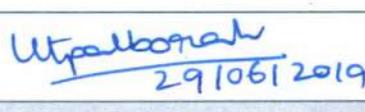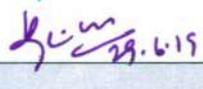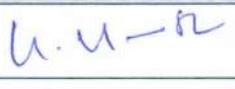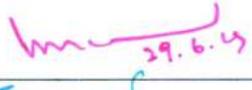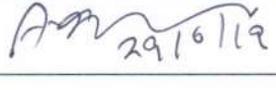
Dr. S.Tamilselvi Prof. & Head (PG) / ECE	
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Dr.L.Kalaivani Prof. / EEE	
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Student Members	
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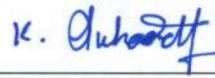
CHAIRMAN
ACADEMIC COUNCIL

National ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI

(An Autonomous Institution – Affiliated to Anna University Chennai)

Actions Taken Report on Minutes of 10th Academic Council Meeting

S. No.	Action Initiated	Action Taken
1.	Amendments to clause 12.3 and 14.0 (vii) of Regulations 2015 for UG degree programmes	Implemented
2.	Amendments to clause 7.5 of Regulations 2015 for PG degree programmes	Implemented
3.	Regulation 2019 for UG degree programmes	Implemented
4.	Regulation 2019 for PG degree programmes	Implemented
5.	First year curriculum and syllabus for all UG degree programmes under R-2019	Implemented
6.	Curriculum and syllabus for PG degree programmes (M.E. – CSE, M.E. - HVE and M.Tech. - IT) under R-2019	Implemented
7.	Feedback should be obtained from students for overall curriculum in each programme.	Implemented
8.	Mandatory courses such as Environmental Science and Engineering should be placed in 4th or 6th semester and Constitution of India should be placed in 5th semester.	Implemented
9.	For Mandatory courses, 3 hours of lecture should be allotted and the result of the courses (Pass/RA) should appear in Mark statement.	Adopted
10.	Online courses registered by the students for credit transfer should not be in existing curriculum.	Implemented
11.	Open book test may be included as any one of the tool for assessment.	Yet to be Implemented
12.	Compulsory questions may be in Creative level in design oriented subjects.	Yet to be Implemented
13.	Number of Internal Assessment Tests may be reduced to two and weightage may be increased.	Adopted
14.	Model Exam may be renamed as Assessment test for practicals.	Adopted
15.	For main project, instead of naming as Phase-I and Phase-II, it may be named as Project-I and Project-II.	Implemented

16.	To improve the communication skill, opportunity may be provided to deliver seminars in nearby schools by the students.	Yet to be Implemented
17.	Python programming may be included in the curriculum of all the programmes.	Implemented
18.	Domain based grouping of electives are not necessary. List of electives only may be provided.	Implemented
19.	For all the courses, latest edition books may be updated.	Implemented
20.	Web links and journals may be included as references.	Implemented
21.	For B.E. - EEE, Applied Engineering course may be renamed as Basic Civil and Mechanical Engineering.	Implemented
22.	For M.E. - CSE, Machine Learning course may be taken as core.	Implemented
23.	For B.E.– CSE, Digital Signal Processing course may be included as Elective for.	Implemented
24.	For B.Tech. - IT, Programming C++ course may be renamed as Object Oriented Programming.	Implemented
25.	For B.Tech. - IT, C# and .Net programming may be removed from the curriculum or place it as elective.	Removed from the curriculum
26.	For B.E.– CSE, Computer Networks may be shifted to 4th semester.	Implemented
27.	For B.E.– CSE, Cryptography and Network Security course may be included as core.	Implemented

CHAIRMAN
ACADEMIC COUNCIL

UNDER GRADUATE DEGREE PROGRAMMES

Existing UG Regulations – 2015	Amended UG Regulations – 2015
6.0 **REGISTRATION**	**6.0** **REGISTRATION**
6.9 No course shall be offered by a department unless a minimum of **5** students are registered for that course.	6.9 No course shall be offered by a department unless a minimum of **10** students are registered for that course.
14.0 PASSING REQUIREMENTS	**14.0 PASSING REQUIREMENTS**
i. A student shall be deemed to have passed a theory course, if the total marks secured by him/her (CA+ESE put together) is at least ($\mu - 1.8\ \sigma$), or 50%, whichever is lower, where μ is the average mark of the students registered for the course and σ is the corresponding standard deviation. However, the student has to secure a minimum of 60% of μ in the End Semester Examination (ESE).	i. A student shall be deemed to have passed a theory course, if the total marks secured by him/her (CA+ESE put together) is at least ($\mu - 1.8\ \sigma$), or 50%, whichever is lower, where μ is the average mark of the students registered for the course and σ is the corresponding standard deviation. However, the student has to secure a **minimum of 60% of μ or 50 % in the End Semester Examination (ESE), whichever is lower.**
15.0 AWARD OF LETTER GRADES	**15.0 AWARD OF LETTER GRADES**
15.1 All assessments of a course will be done on absolute mark basis. Each student based on his/her performance will be awarded a final letter grade and grade point, based on the performance of the student relative to others who have registered for that particular course **if the class strength is greater than or equal to 30.**	15.1 All assessments of a course will be done on absolute mark basis. Each student based on his/her performance will be awarded a final letter grade and grade point, based on the performance of the student relative to others who have registered for that particular theory course.
15.1	15.1
ii. The letter grade and grade point for all the courses **other than theory / integrated courses** including Elective courses (having strength less than 30) Laboratory courses, Industrial Training, Internship, In Plant Training, One credit courses, Mini Project and Project work shall be awarded by converting the marks obtained in that course in to a grade based on the guidelines detailed in clause 14 (ii) & Table-13.	ii. The letter grade and grade point for other courses including Laboratory courses, Industrial Training, Internship, In Plant Training, One credit courses, Mini Project, Project work and Elective courses (**having strength less than 25**) shall be awarded by converting the marks obtained in that course in to a grade based on the guidelines detailed in clause 14 (ii) & Table-13.

UNDER GRADUATE DEGREE PROGRAMMES

Existing UG Regulations – 2015	Amended UG Regulations – 2015
The class intervals (k) shall be evaluated for the purpose of awarding the grades by dividing the difference between highest mark secured (X) in a Course and the minimum pass mark by the total number of grades (O, A$^+$, A, B$^+$ and B). $$k = \frac{X - 50}{5}$$	The class intervals (k) shall be evaluated for the purpose of awarding the grades by dividing the difference between highest mark secured (X) in a Course and the minimum pass mark by the total number of grades (O, A$^+$, A, B$^+$ and B). **However, if the class interval (k) is less than 7, then (k) will be considered as 7.** $$k = \frac{X - 50}{5}$$

AMENDMENTS IN **REGULATIONS 2019** (11th Academic Council Meeting on 29.06.2019)

UNDER GRADUATE DEGREE PROGRAMMES	
Existing UG Regulations – 2019	**Amended UG Regulations – 2019**
15.0 AWARD OF LETTER GRADES 15.1 All assessments of a course will be done on absolute mark basis. Each student based on his/her performance will be awarded a final letter grade and grade point, based on the performance of the student relative to others who have registered for that particular course **if the class strength is greater than or equal to 30.**	**15.0 AWARD OF LETTER GRADES** 15.1 All assessments of a course will be done on absolute mark basis. Each student based on his/her performance will be awarded a final letter grade and grade point, based on the performance of the student relative to others who have registered for that particular theory course.
15.1 ii. The letter grade and grade point for all the courses **other than theory / integrated courses** including Elective courses (having strength less than 30) Laboratory courses, Industrial Training, Internship, In Plant Training, One credit courses, Mini Project and Project work shall be awarded by converting the marks obtained in that course in to a grade based on the guidelines detailed in clause 14 (ii) & Table-13. The class intervals (k) shall be evaluated for the purpose of awarding the grades by dividing the difference between highest mark secured (X) in a Course and the minimum pass mark by the total number of grades (O, A⁺, A, B⁺ and B). $$k = \frac{X - 50}{5}$$	15.1 ii. The letter grade and grade point for other courses including Laboratory courses, Industrial Training, Internship, In Plant Training, One credit courses, Mini Project, Project work and Elective courses (**having strength less than 25**) shall be awarded by converting the marks obtained in that course in to a grade based on the guidelines detailed in clause 14 (ii) & Table-13. The class intervals (k) shall be evaluated for the purpose of awarding the grades by dividing the difference between highest mark secured (X) in a Course and the minimum pass mark by the total number of grades (O, A⁺, A, B⁺ and B). **However, if the class interval (k) is less than 7, then (k) will be considered as 7.** $$k = \frac{X - 50}{5}$$