Department of Computer Science and Engineering

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

(An Autonomous Institution - Affiliated to Anna University, Chennai)
www.nec.edu.in

14th Board of Studies Meeting in the Department of
Computer Science and Engineering

Meeting Mode: Through online (GoogleMeet)

Google Meet Link: https://meet.google.com/zgn-upjd-vuz

Date & Time: 19.12.2020 & 10.30 AM

Agenda

BoS / CSE 14.1	:	Welcome address and Opening Remarks by Chairman, Board of Studies in the department of Computer Science and Engineering
BoS / CSE 14.2	:	Confirmation of the Minutes of the 13th meeting of Board of studies in the department of Computer Science and Engineering held on 30th May 2020 and Action taken report of 13th meeting of Board of studies
BoS / CSE 14.3	:	Business brought forward by the Chairman, Board of studies 14.3.1. Approval of Elective courses for B.E -CSE degree programme under R-2019 14.3.2. Approval of one credit courses for B.E -CSE degree programme under R-2019 14.3.3. Approval for NEC Innovation and Startup Policy(NEC-ISP) 2020 14.3.4. Approval for Innovation through design thinking course 14.3.5. Approval for online courses for one or two theory courses
BoS / CSE 14.4	:	Any other items
BoS / CSE 14.5	:	Suggestions given by the BoS Members

F. No. 1-1/NEC/CSE

19th December, 2020

Dear Sir,

Sub: *Minutes of the 14th Meeting of the Board of studies in the Computer Science and Engineering -Reg.*

Kindly find attached herewith the Minutes of the 14th Meeting of Board of studies of the Computer Science and Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628 503 held on 19th December 2020 at 10.30 AM through Google Meet. 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)

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Department of Computer Science and Engineering

MINUTES OF THE MEETING

The 14th Meeting of the Board of studies of the Computer Science and Engineering was held on 19th December, 2020 at 10.30 AM through Google Meet.

The following members were present:

1.	**Dr.V.GOMATHI,** Professor & Head	Chairman
2.	Dr.K.G.Srinivasagan, Professor	Internal Members
3.	Dr.V.Kalaivani, Professor	
4.	Dr.K.Mohaideen Pitchai, Associate Professor (SG)	
5.	Dr.S.Maheswari, Associate Professor	
6.	Dr.M.Bhuvaneswari, Assistant Professor (SG)	
7.	Ms.J.Naskath, Assistant Professor (SG)	
8.	Dr.M.Jayalakshmi, Assistant Professor (SG)	
9.	Ms.R.Rajakumari, Assistant Professor (SG)	
10.	Mr.D.Vijayakumar, Assistant Professor (SG)	
11.	Ms.S.Kalaiselvi, Assistant Professor (SG)	
12.	Dr.G.Sivakamasundari,Assistant Professor (SG)	
13.	Ms.G.R.Hemalakshmi, Assistant Professor (SG)	
14.	Ms.V.Anusuya Devi, Assistant Professor	
15.	Dr. K. S. Easwarakumar, Professor, Dept. of Computer Science and Engineering, CEG Campus, Anna University, Chennai .	University Nominee
16.	Dr. C.Krishna Mohan, Professor & Head, Dept. of Computer Science and Engineering, Indian Institute of Technology Hyderabad, Hyderabad.	Academic Experts

17.	Dr. C. Mala, Professor, Dept. of Computer Science and Engineering, National Institute of Technology Trichy, Trichy.	Academic Experts
18.	Dr.G.R.Karpagam, Professor, Dept. of Computer Science and Engineering, PSG College of Technology, Avinashi Road, Peelamedu. Coimbatore.	
19.	Dr.G.Kousalya , Professor & Head of the Department, Dept. of Computer Science and Engineering, Coimbatore Institute of Technology, Civil Aerodrome Post, Coimbatore.	
20.	Mr.Roy Antony Arnold, Lead - Education and Research, Infosys Pvt Ltd.,Chennai.	Industrial Experts
21.	Mr.Srinivasan Rajendren, Service Delivery Manager, Tata Consultancy Services,Chennai.	
22.	Mr.Lawrence Mohanraj, Country Lead – Academic Initiative, IBM India Pvt. Ltd, IBM Towers, Chennai.	
23.	Mr.D.Siddharthan, Delivery Manager, Wipro Technologies Pvt. Ltd, Chennai.	
24.	Ms.G.Maria Justin Mary, IT-Lead Remedy Application, Honeywell Technology Solutions, Madurai.	Industrial Experts and Alumni
	Mr.Manikanda Raman Viswanathan, Principal Architect, Cognizant Digital Operations, CTS,Chennai.	
25.	Ms. Jeya Ramani. S.M, III year CSE	Student Members Nominated by the HOD
26.	Mr. Manickavasagan.P, III year CSE	

Mr. Somu Chockalingam, president, Doyen Systems Pvt Ltd,Chennai could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence.

| BoS / CSE 14.1 | : | 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 14th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

| BoS / CSE 14.2 | : | TO CONFIRM THE MINUTES OF 13th BOS MEETING HELD ON 30th MAY, 2020 |

The minutes of the **Thirteenth Board of Studies meeting** held on 30th May, 2020 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 13th Academic council.

> **Action Taken Report**

(Enclosed in Annexure I)

| BoS/CSE 14.3.1 | : | **TO CONFIRM AND APPROVAL OF ELECTIVE COURSES FOR B.E-CSE DEGREE PROGRAMME UNDER R-2019** |

RESOLVED TO approve some of the Programme Elective Courses, Open Elective Courses for B.E - CSE degree programme and Open Elective Courses for B.E-Mechanical Engineering, EEE and ECE degree programme under R-2019

> **R-2019- Programme Elective Courses Syllabus and Open Elective Courses**

(Enclosed in Annexure II)

| BoS/ CSE 14.3.2 | : | **TO CONFIRM AND APPROVAL OF ONE CREDIT COURSES FOR B.E-CSE DEGREE PROGRAMME UNDER R-2019** |

RESOLVED TO approve one credit courses for B.E-CSE degree programme under R-2019

> **R-2019- One credit courses syllabus**

(Enclosed in Annexure III)

| BoS/ CSE 14.3.3 | : | **TO CONFIRM AND APPROVAL FOR NEC INNOVATION AND STARTUP POLICY(NEC-ISP) 2020** |

RESOLVED TO approve NEC Innovation and Startup Policy (NEC-ISP) 2020

> **NEC Innovation and Startup Policy (NEC-ISP) 2020**

(Enclosed in Annexure IV)

BoS / CSE 14.1 : 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 14th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS / CSE 14.2 : TO CONFIRM THE MINUTES OF 13th BOS MEETING HELD ON 30th MAY, 2020

The minutes of the **Thirteenth Board of Studies meeting** held on 30th May, 2020 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 13th Academic council.

➢ **Action Taken Report**

(Enclosed in Annexure I)

BoS/CSE 14.3.1 : **TO CONFIRM AND APPROVAL OF ELECTIVE COURSES FOR B.E-CSE DEGREE PROGRAMME UNDER R-2019**

RESOLVED TO approve some of the Programme Elective Courses, Open Elective Courses for B.E - CSE degree programme and Open Elective Courses for B.E-Mechanical Engineering, EEE and ECE degree programme under R-2019

➢ **R-2019- Programme Elective Courses Syllabus and Open Elective Courses**

(Enclosed in Annexure II)

BoS/ CSE 14.3.2 : **TO CONFIRM AND APPROVAL OF ONE CREDIT COURSES FOR B.E-CSE DEGREE PROGRAMME UNDER R-2019**

RESOLVED TO approve one credit courses for B.E-CSE degree programme under R-2019

➢ **R-2019- One credit courses syllabus**

(Enclosed in Annexure III)

BoS/ CSE 14.3.3 : **TO CONFIRM AND APPROVAL FOR NEC INNOVATION AND STARTUP POLICY(NEC-ISP) 2020**

RESOLVED TO approve NEC Innovation and Startup Policy (NEC-ISP) 2020

➢ **NEC Innovation and Startup Policy (NEC-ISP) 2020**

(Enclosed in Annexure IV)

BoS/CSE 14.3.4	:	**TO CONFIRM AND APPROVAL FOR INNOVATION THROUGH DESIGN THINKING COURSE**

RESOLVED TO approve innovation through design thinking course

> **Innovation through design thinking - 2 credits elective course**

(Enclosed in Annexure V)

BoS/CSE 14.3.5	:	**TO CONFIRM AND APPROVE FOR ONLINE COURSES FOR ONE OR TWO THEORY COURSES**

RESOLVED TO approve the conduct of one or two theory courses fully in online mode

> **R-2019 – Online courses for one or two theory courses**

(Enclosed in Annexure VI)

BoS/CSE 14.4	:	**ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS**

On the whole, this new initiative was very much appreciated by all members. The challenges faced by the students(if any) should be periodically discussed with them. They also congratulated the faculty members for their team efforts towards continuing Education.

BoS / CSE 14.5	:	**SUGGESTIONS GIVEN BY THE BOS MEMBERS**
14.5.1	:	List of Programme Elective Courses are appreciated by Anna University nominee and commented that syllabus is fine.
14.5.2	:	The content of syllabus of Programme Elective Courses are appreciated by Academic expert members.
14.5.3	:	Inclusion of latest technologies in one credit courses is appreciated by industrial experts and commented that syllabus is framed with excellent technical aspects and analyzed well as per industrial needs.
14.5.4	:	Pre-requisites may be included for all elective courses.
14.5.5	:	For 'Data science' and 'Social media analytics' courses, practical components may be included by involving Tableau Academy, IBM and Honeywell platforms. For 'Formal Proofs of Cryptography' course, practical components may be included.
14.5.6	:	For AI and healthcare course, the contents may be revised by including models of computing and clinical data analysis.

14.5.7 : Programme Elective Course on 'Design thinking' course may be framed with higher level contents of design thinking process.

14.5.8 : Ethereum tool may be included in 'Block chain Architecture and Design' course.

14.5.9 : 'Full Stack Development ' course may be included in one credit course.

14.5.10 : BoS members suggested to include 'Ideathon' as one of the assessments tool for the course 'Innovation through Design Thinking'

14.5.11 : 'Structured Query Language' course may alone be offered instead of additional 'Database Management Systems' course as open elective course.

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. Approval of Elective courses for B.E-CSE degree programme under R-2019.
b. Approval of one credit courses for B.E-CSE degree programme under R-2019.
c. Approval for NEC Innovation and Startup Policy (NEC-ISP) 2020.
d. Approval for Innovation through design thinking –Two credits course.
e. Approval for online courses for one or two theory courses.

Dr.M.Jayalakshmi, Assistant Professor (SG) thanked all the members for their kind cooperation and the meeting came to an end.

Members Present Online:

1.	**Dr.V.GOMATHI,** Professor & Head	Chairman
2.	Dr.K.G.Srinivasagan, Professor	Internal Members
3.	Dr.V.Kalaivani, Professor	
4.	Dr.K.Mohaideen Pitchai, Associate Professor (SG)	
5.	Dr.S.Maheswari, Associate Professor	
6.	Dr.M.Bhuvaneswari, Assistant Professor (SG)	
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14.	Ms.V.Anusuya Devi ,Assistant Professor	
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17.	Dr. C. Mala Professor, Dept. of Computer Science and Engineering, National Institute of Technology Trichy, Trichy.	
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19.	Dr.G.Kousalya , Professor & Head of the Department, Dept. of Computer Science and Engineering, Coimbatore Institute of Technology, Civil Aerodrome Post, Coimbatore.	
20.	Mr.Roy Antony Arnold, Lead - Education and Research, Infosys Pvt Ltd.,Chennai.	Industrial Experts
21.	Mr.Srinivasan Rajendren, Service Delivery Manager, Tata Consultancy Services,Chennai.	
22.	Mr.Lawrence Mohanraj, Country Lead – Academic Initiative, IBM India Pvt. Ltd, IBM Towers, Chennai	

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24.	Ms.G.Maria Justin Mary, IT-Lead Remedy Application, Honeywell Technology Solutions, Madurai.	Industrial Experts and Alumni
25.	Mr.Manikanda Raman Viswanathan, Principal Architect, Cognizant Digital Operations, CTS,Chennai.	
26.	Ms. Jeya Ramani. S.M, III year CSE	Student Members Nominated by the HOD
27.	Mr. Manickavasagan.P , III year CSE	

CHAIRMAN
BOARD OF STUDIES

Annexure I

Action Taken Report for Minutes of 13th BOS

As per BOS committee suggestions,

- 15CS81C-Project Work Viva voce is conducted through online as per the recommendations of Anna University, Chennai.

- Internships have undergone by students during lock down based on student's domain interest.

CHAIRMAN
BOARD OF STUDIES

Department of Computer Science and Engineering

Minutes of Meeting of the Board of Studies held on
19th December, 2020 at 12.30 PM

Meeting Mode: Through online (GoogleMeet)

Google Meet Link: https://meet.google.com/zgn-upjd-vuz

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Board of Studies Meeting in the Department of
Computer Science and Engineering

Meeting Mode: Through online (GoogleMeet)

Google Meet Link: https://meet.google.com/zgn-upjd-vuz

Date & Time: 19.12.2020 & 12.30 PM

Agenda

BoS / UGC-NSQF-Diploma 1.1	:	Welcome address and Opening Remarks by Chairman, Board of Studies in the department of Computer Science and Engineering
BoS / UGC-NSQF-Diploma 1.2	:	Business brought forward by the Chairman, Board of studies 1. Approval of Curriculum for the Diploma Programmes approved by University Grants Commission (UGC) under National Skills Qualifications Framework (NSQF) 2. Approval of Detailed Syllabi for the Diploma Programmes approved by University Grants Commission (UGC) under National Skills Qualifications Framework (NSQF)
BoS / UGC-NSQF-Diploma 1.3	:	Any other items
BoS / UGC-NSQF-Diploma 1.4	:	Suggestions given by the BoS Members

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Department of Computer Science and Engineering

MINUTES OF THE MEETING

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19.	Dr.G.Kousalya , Professor & Head of the Department, Dept. of Computer Science and Engineering, Coimbatore Institute of Technology, Civil Aerodrome Post, Coimbatore.	
20.	Mr.Roy Antony Arnold, Lead - Education and Research, Infosys Pvt Ltd.,Chennai.	
21.	Mr.Srinivasan Rajendren, Service Delivery Manager, Tata Consultancy Services,Chennai.	Industrial Experts
22.	Mr.Lawrence Mohanraj, Country Lead – Academic Initiative, IBM India Pvt. Ltd, IBM Towers, Chennai	
23.	Mr.D.Siddharthan, Delivery Manager, Wipro Technologies Pvt. Ltd, Chennai.	
24.	Ms.G.Maria Justin Mary IT-Lead Remedy Application, Honeywell Technology Solutions, Madurai.	Industrial Experts and Alumni
	Mr.Manikanda Raman Viswanathan, Principal Architect, Cognizant Digital Operations, CTS,Chennai.	

Mr. Somu chockalingam, president, Doyen Systems Pvt Ltd,Chennai could not attend the meeting due to their prior commitments and unavoidable reasons and were granted leave of absence.

BoS / UGC-NSQF-Diploma 1.1	:	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 Board of Studies and explained the objective of the diploma courses approved by University Grants Commission (UGC) under National Skills Qualifications Framework (NSQF) scheme. .
BoS / UGC-NSQF-Diploma 1.2	:	**TO CONFIRM AND APPROVAL OF CURRICULUM FOR DIPLOMA PROGRAMMES UNDER R-2019**
		RESOLVED TO approval of curriculum for the following five Diploma programme under R-2019 1. WEB APP DEVELOPMENT 2. ROBOTIC PROCESS AUTOMATION 3. NETWORK AND MANAGEMENT 4. IOT SOLUTION DEVELOPMENT 5. LINUX ADMINISTRATION ➢ **R-2019- UGC-NSQF-Diploma Programmes Curriculum** (Enclosed in Annexure I)
BoS/ UGC-NSQF-Diploma 1.2	:	**TO CONFIRM AND APPROVAL OF DETAILED SYLLABI FOR DIPLOMA PROGRAMMES UNDER R-2019**
		RESOLVED TO approval of detailed syllabus for the following five Diploma programme under R-2019 1. WEB APP DEVELOPMENT 2. ROBOTIC PROCESS AUTOMATION 3. NETWORK AND MANAGEMENT 4. IOT SOLUTION DEVELOPMENT 5. LINUX ADMINISTRATION ➢ **R-2019- UGC-NSQF-Diploma Programmes detailed syllabus** (Enclosed in Annexure II)
BoS/ UGC-NSQF-Diploma 1.3	:	**ANY OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOS** On the whole, this new initiative was very much appreciated by all members. The challenges faced by the students(if any) should be periodically discussed with them. They also congratulated the faculty members for their team efforts towards continuing Education.

BoS/ UGC-NSQF-Diploma 1.4	:	SUGGESTIONS GIVEN BY THE BOS MEMBERS
1.4.1	:	The main objectives of the UGC – NSQF scheme are appreciated by the Industrial Experts. They also pointed out the need of one year diploma programmes will create work ready manpower on large scale. They appreciated that UGC – NSQF scheme will fulfill the gap of a demand and supply skilled workforce.
1.4.2	:	The content of syllabus of General Education Component courses is appreciated by Academic expert members.
1.4.3	:	Inclusion of latest technology based courses in diploma programmes are appreciated by industrial experts and commented that syllabus of the skill development components courses can be reduced.
1.4.4		For Interactive web app development Technology course in Web App Development Diploma, the contents may be revised by focusing HTML5,CSS, and JavaScript.
1.4.5		For Fundamentals of Software Engineering course in Robotic Process Automation Diploma, the contents may be revised by reducing the various SDLC models other than Waterfall model and Agile model.
1.4.6		The industrial expert suggested introducing the very specific content of syllabus to the target group for skill development. Getting the Diploma certificate should give confident to the students to get transition from non-formal to organized job market.
1.4.7	:	Computer system assembly, trouble shooting and repairing course may be included in Network and Management Diploma programme.
1.4.8	:	For all the courses of diploma programme, practical/demonstration/hands-on based content delivery methods need to be followed than conceptual explanation.
1.4.9	:	In Diploma in IOT Solution Development, the concentration has to be given for Arduino programming and product development in the first semester. The second semester courses may illustrate about Raspberry Pi board programming

		and product development.
1.4.10	:	For Diploma in Linux Administration programme, Kali Linux and its default tools may be explored to the students and the File System Management course may be merged with Linux basic concepts.

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. Approval for Curriculum for the Diploma Programmes approved by UGC under NSQF.
b. Approval for Detailed Syllabi for the Diploma Programmes approved by UGC under NSQF.

Dr.M.Jayalakshmi, Assistant Professor (SG) thanked all the members for their kind cooperation and the meeting came to an end.

Members Present Online:

1.	**Dr.V.GOMATHI** Professor & Head	Chairman
2.	Dr.K.G.Srinivasagan, Professor	Internal Members
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CHAIRMAN
BOARD OF STUDIES

14th BOARD OF STUDIES MEETING – DEPARTMENT OF COMPUTER SCIENCE ENGINEERING ON 19.12.2020

● REC   HOD CSE - Gomathi Velusamy is presenting

19CS04E   **DATA MINING**   L T P C QP
                                              3 0 0 3 A

COURSE OUTCOMES
Upon completion of this course, the student will be able to
CO1: Apply pre-processing methods based on characteristics of data. (K3)
CO2: Comprehend features of classification techniques.(K2)
CO3: Identify appropriate clustering technique to analyze the data.(K3)
CO4: Use association rule mining to generate rules. (K3)
CO5: Use recent trends of Data mining in Business applications (K3)

UNIT I   DATA MINING AND DATA PREPROCESSING   12
Introduction to KDD process – Knowledge discovery from databases – Need for data pre
processing – Data cleaning – Data integration and transformation – Data reduction – Data
discretization and concept hierarchy generation.

UNIT II   CLASSIFICATION   9
Basic Concepts – Decision Tree induction – Bayes Classification Methods – Rule Based
Classification – Model Evaluation and Selection – Techniques to improve Classification
Accuracy –Classification: Advanced concepts – Bayesian Belief Networks - Support Vector
Machine –Classification using frequent Patterns.

UNIT III   CLUSTER ANALYSIS   9
Cluster Analysis: Basic concepts and Methods – Cluster Analysis – Partitioning methods –
Hierarchical methods – Density Based Methods– Grid Based Methods - Evaluation of

People (30)   Chat

Kalaiselvi Csepg
Lawrence Mohanraj
maheswari cse
mala chelliah
Mani Viswanathan
MANICKAVASAGAN ...
Maria Justin Mary Sri...
Mohaideen Pitchai K.
naskath cse
Place ment
Prof. K S Easwarakum...
rajakumari cse

HOD CSE - Gomathi...   Lawrence Mohanraj
Siddharthan Devan...   Roy Antony Arnold...
mala chelliah   Mohaideen Pitchai ...
Mani Viswanathan   Dr.V.Kalaivani
anusuyadevi cse   C Krishna Mohan

Meeting details   Raise hand   Turn on captions   HOD CSE - Gomathi Velusamy is presenting

Type here to search

10:49 AM
12/19/2020