

Department of Information Technology

MINUTES of 19<sup>th</sup> Meeting of the Board of studies held on  
24<sup>th</sup> June, 2023 at 10.00 AM

Venue: Alumni Chamber, 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](http://www.nec.edu.in)

Department of Information Technology

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19<sup>th</sup> Board of studies Meeting in the Department of  
**Information Technology**

Venue: Alumni Chamber, National Engineering College  
K.R.Nagar, Kovilpatti – 628503

Date & Time: 24.06.2023 & 10.00 a.m.

Agenda

BoS / IT 19.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the department of Information Technology
BoS / IT 19.2	:	Confirmation of the Minutes of the 18 <sup>th</sup> meeting of Board of studies in the department of Information Technology held on 24 <sup>th</sup> DEC 2022 and Action taken report of 18 <sup>th</sup> meeting of Board of studies
BoS / IT 19.3	:	Business brought forward by the Chairman, Board of studies 19.3.1 Curriculum structure for R2023 UG Programme - B.Tech Information Technology & PG Programme - M.Tech Information and Cyber warfare 19.3.2 First Semester Syllabi for R2023 UG Programme - B.Tech Information Technology & PG Programme - M.Tech Information and Cyber warfare 19.3.3 Any other matter
BoS / IT 19.4	:	Any other items
BoS / IT 19.5	:	Suggestions given by the BoS Members

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F. No. 19.1/NEC/ IT/2023-24

24<sup>th</sup> Jun, 2023

Dear Sir/Madam,

**Sub: Minutes of the 19<sup>th</sup> Meeting of the Board of studies in the Information Technology - Reg.**

Kindly find attached herewith the Minutes of the 19<sup>th</sup> Meeting of Board of studies of the Information Technology of National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 24<sup>th</sup> June, 2023 at 10.00 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](mailto: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)

### MINUTES OF THE MEETING

The Board of Studies Meeting of the Department of Computer Science and Engineering, Information Technology, Artificial Intelligence and Data Science was held on 24<sup>th</sup> June 2023 at 10.00 AM.

The following members were present:

1.	Dr.V.Gomathi, Prof & Head	Board Chairman Dept. of CSE
2.	Dr.K.G.Srinivasagan, Prof & Head	Board Chairman Dept. of IT
3.	Dr.V.Kalaivani, Prof & Head	Board Chairman Dept. of AI&DS
4.	Dr.G.Madhupriya, Associate Professor, Department of Computer Science & Engineering, Thiagarajar College of Engineering, Madurai	University Nominee
5.	Dr.V.Masilamani, Associate Professor and Head, Department of Computer Science and Engineering, Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram	Academicians
6.	Dr. C.Mala, Professor, Department of Computer Science and Engineering, National Institute of Technology, Tiruchirappalli	
7.	Dr.B.Surendiran, Associate Professor, Department of Computer Science and Engineering, National Institute of Technology, Puducherry	
8.	Dr.B.L.Velammal, Associate Professor, Department of Computer Science and Engineering, Anna University, Chennai	

9.	Mr.Sudeesh Sankaravel Associate Fellow – Data Science Verizon, Chennai	Industrial Experts
10.	Mr.K.Sujeeth Senior Technical Lead- Data Analyst Mercedes Benz R&D India, Brigate Tech Gargen, Kundanahalli, Bangalore	
11.	Mr.Roy Antony Arnold, Senior Consultant Infosys Limited, Chennai	
12.	Mr. M.Ramkesh, Senior consultant – Infrastructure Management(Storage Administration and Data center Operations) Infosys Limited, Bangalore	
13.	Dr.K.M.Suceendran, General Manager, Tata Consultancy Services, Chennai	
14.	Ms.G.Maria Justin Mary, Lead Engineer, Lowe's Services India Pvt Ltd, Bengaluru	Alumni Experts
15.	Mr.S.Manikandan Product Lead Engineer, Zoho Corporation, Tirunelveli	
16.	Dr.S.Venkada Prasad, Project Manager, Tata Consultancy Services, Chennai	
17.	Ms.Mejari C Module Lead Mphasis, Bangalore	
18.	Dr. Shajulin Benedict, Associate Professor, Department of Computer Science & Engineering IIIT – Kottayam	Special Invitees
19.	Mr.Sethuraman Thangavelu, Senior Manager, VVDN Technologies, Chennai.	

20.	Dr.B.Paramasivan, Professor	Internal Members
21.	Dr.R.Muthukkumar, Professor	
22.	Dr.S.Chidambaram, Asst. Prof. (SG)	
23.	Dr.S.Rajagopal, Asst. Prof. (SG)	
24.	Mr.V.Manimaran, Asst. Prof. (SG)	
25.	Ms.V.Anitha, Asst. Prof.	
26.	Ms.N.Gowthami, Asst. Prof.	
27.	Ms.S.Santhi, Asst. Prof.	
28.	Mr.M.Sundarraaj, Final year / IT	Student Members
29.	Ms.S.Girija, Third year / IT	

BoS / IT 19.1	:	WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE ALUMNI CHAMBER
		The Chairman, BoS of the Information Technology welcomed and introduced the members of 19 <sup>th</sup> Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.
BoS / IT 19.2	:	TO CONFIRM THE MINUTES OF EIGHTEENTH BOS MEETING HELD ON 24 <sup>th</sup> DECEMBER, 2022.
		The minutes of the <b>Eighteenth Board of Studies meeting</b> held on 24 <sup>th</sup> December, 2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 18 <sup>th</sup> Academic council.  ➤ <b>Action Taken Report</b>  (Enclosed in <i>Annexure I</i> )
BoS / IT 18.3.1	:	<b>TO CONFIRM AND APPROVE</b> CURRICULUM STRUCTURE FOR R2023 UG PROGRAMME - B.TECH INFORMATION TECHNOLOGY & PG PROGRAMME - M.TECH INFORMATION AND CYBER WARFARE
		<b>RESOLVED TO APPROVE</b> Curriculum Structure For R2023 UG Programme - B.Tech Information Technology & PG Programme - M.Tech Information And Cyber Warfare
BoS / IT 19.3.2	:	<b>TO CONFIRM AND APPROVE</b> FIRST SEMESTER SYLLABI FOR R2023 UG PROGRAMME - B.TECH INFORMATION TECHNOLOGY & PG PROGRAMME - M.TECH INFORMATION AND CYBER WARFARE
		<b>RESOLVED TO APPROVE</b> First Semester Syllabi For R2023 UG Programme - B.Tech Information Technology & PG Programme - M.Tech Information And Cyber Warfare.

BoS / IT 19.4	:	<b>SUGGESTIONS GIVEN BY THE BOS MEMBERS</b>
19.4.1	:	The curriculum should not focus on a particular language. In C Programming some problem solving concepts may be added. The course name may also be renamed.
19.4.2	:	Either Computer Organization or Computer Architecture course may be offered as a 3 credit course.
19.4.3	:	Data Structures may be offered in 3rd semester using C or C++. Lateral Entry students may be offered with some bridge courses for C and C++.
19.4.4	:	Database Management Systems & Java course may be offered in 4 <sup>th</sup> Semester.
19.4.5	:	Design and Analysis of Algorithms may be offered in 4th semester along with practical component and L, T, P, E and C modified as 3, 0, 2, 0 and 4 respectively.
19.4.6	:	Program Elective Course (PEC) may be offered from 5th semester onwards.
19.4.7	:	Some communication related courses may be added related to IT. Courses related to Signals and Systems may be offered.
19.4.8	:	Python Programming should be made as a mandatory self-learning course for the students during 2nd Semester.
19.4.9	:	Quantum computing should not be offered as a Programme Core Course. Instead it may be offered as an Elective.
19.4.10	:	Semester 6 is heavily loaded hence courses may be rearranged. Some courses should be reduced.
19.4.11	:	Semester 7 and 8 is light weighted, so one elective course may be offered in 7th semester.
19.4.12	:	UI/UX Design may be moved to 6th semester.



19.4.13	:	Courses like DevOps, Cloud Computing may be offered as a Programme Core Course.
19.4.14	:	Linear Algebra should be provided in Mathematical course.
19.4.15	:	The curriculum should focus mainly on 2 languages such as Java and Python.
19.4.16	:	Open Source awareness should be given.
19.4.17	:	Provide courses that provide a deeper level of understanding in one domain rather concentrating on horizontal learning.
19.4.18	:	Subject 'Mathematics For Cyber Security Professionals' may be renamed as 'Mathematics For Cyber Security'
19.4.19	:	Advanced Data Structures subject may be given as an Integrated Theory and Laboratory (ITL) Course
19.4.20	:	Operating System Security subject may be given as the first elective course
19.4.21	:	All text books and reference books must be from latest versions. All reference books must include the year of publication.
19.4.22	:	Online reference links may be given for the subject 'Research Methodology and IPR'
19.4.23	:	Laboratory of Advanced Data Structures may be handled in any programming language. Hence the reference books in specific to C++ may be modified.
19.4.24	:	Course Outcomes of Vulnerability Assessment And Penetration Testing Theory may be modified. All laboratory exercises of Vulnerability Assessment And Penetration Testing may be modified.

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) Curriculum Structure of UG Programme B.Tech Information Technology - R 2023 With Detailed Syllabus of First Year
- b) Curriculum Structure of PG Programme M.Tech Information And Cyber Warfare - R 2023 With Detailed Syllabus of First Year



**CHAIRMAN  
BOARD OF STUDIES**

## ANNEXURE I

### **Actions taken for Minutes of 18<sup>th</sup> BoS Meeting**


As per BOS Committee suggestion,

- In **Introduction to Data Science verticals** some packages may be included for Visualization in Unit 3. Contents related to SciPy, NumPy looks too complex. Hence it may be simplified.
- In **Machine Learning Techniques**, Unit 4 and 5 are heavily loaded. Hence Deep Learning and Reinforcement learning may be offered as a separate one credit course. Lecture hours can therefore be reduced and Lab components may be added in the course.
- Course named **"Data Engineering Concepts and Tools"** may be renamed as **"Data Engineering"**. Unit 5 may be renamed as "Data Analysis".
- Course named **Business Intelligence and Analytics**, may be renamed as **"Business Intelligence"**.
- Course named **"Data Visualization and analytics"** may be renamed as **"Data Visualization"**. Content related to Matplotlib may be removed.
- Course named **"Data Preservation and Privacy"** may be renamed as **"Data Privacy"**. Contents related to Data Governance may also be included in the course. Title of Unit 5 may be renamed.
- Faculty members those who will be handling verticals must be assigned well in advance (at least one semester ahead), so that they may deliver the course appropriately.
- One credit courses such as Deep learning, Reinforcement learning and Natural Language Processing may be included as verticals.
- Course Outcomes may be reframed to map with the knowledge level appropriately.



**CHAIRMAN**  
**BOARD OF STUDIES**

**Members Present:**

Dr.V.Gomathi, Prof & Head, Board Chairman, Dept. of CSE	V.L. → 24/6/23
Dr.K.G.Srinivasagan, Prof & Head, Board Chairman, Dept. of IT	
Dr.V.Kalaivani, Prof & Head, Board Chairman, Dept. of AI&DS	V.Kal. 24/6/23
<b>University Nominee</b>	
Dr.G.Madhupriya, Associate Professor, Department of Computer Science & Engineering, Thiagarajar College of Engineering, Madurai	G. Madhupriya 24/6/23
<b>Academicians</b>	
Dr.V.Masilamani, Associate Professor and Head, Department of Computer Science and Engineering, Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram	V. Masilamani 24/6/23
Dr. C.Mala, Professor, Department of Computer Science and Engineering, National Institute of Technology, Tiruchirappalli	C.M.S. 24/6/23
Dr.B.Surendiran, Associate Professor, Department of Computer Science and Engineering, National Institute of Technology, Puducherry	B.Surendiran 24/6/2023
Dr.B.L.Velammal, Associate Professor, Department of Computer Science and Engineering, Anna University, Chennai	B.L.Velammal 24/6/2023
<b>Industrial Experts</b>	
Mr. Sudeesh Sankaravel, Associate Fellow – Data Science Verizon, Chennai	Sudeesh 24/6/2023

Mr.K.Sujeeth Senior Technical Lead- Data Analyst Mercedes Benz R&D India, Brigate Tech Gargen, Kundanahalli, Bangalore	K. Sujeth
Mr.Roy Antony Arnold, Senior Consultant Infosys Limited, Chennai	Roy Antony Arnold 24/6/23
Mr. M.Ramkesh Senior consultant – Infrastructure Management(Storage Administration and Data center Operations) Infosys Limited, Bangalore	M. Ramkesh (24/06/23)
Senior Dr.K.M.Suceendran, General Manager, <i>Acad-Academic Alliances</i> Tata Consultancy Services, Chennai	K. M. Suceendran
<b>Alumni Experts</b>	
Ms.G.Maria Justin Mary, Lead Engineer, Lowe's Services India Pvt Ltd, Bengaluru	G. Maria Justin Mary 24/06/23
Mr.S.Manikandan Product Lead Engineer, Zoho Corporation, Tirunelveli	S. Manikandan 24/06/23
Dr.S.Venkata Prasad, Project Manager, Tata Consultancy Services, Chennai	S. Venkata Prasad 24/06/23
Ms.Mejari C Module Lead Mphasis, Bangalore	Mejari C 24/06/23
<b>Special Invitees</b>	
Dr. Shajulin Benedict, Associate Professor, Department of Computer Science & Engineering IIIT- Kottayam	Shajulin Benedict 24/6/23
Mr.Sethuraman Thangavelu, Senior Manager, VVDN Technologies, Chennai	Sethuraman Thangavelu 24/6/2023

**Internal Members**

Dr.B.Paramasivan, Professor



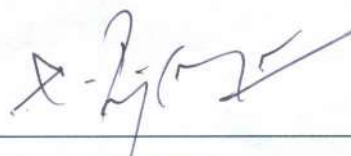
Dr.R.Muthukkumar, Professor



Dr.S.Chidambaram, Asst. Prof. (SG)




Dr.S.Rajagopal, Asst. Prof. (SG)



Mr.V.Manimaran, Asst. Prof. (SG)



Ms.V.Anitha, Asst. Prof.



Ms.V.Gowthami, Asst. Prof.



Ms.S.Santhi, Asst. Prof.

**Student Members**

Mr.M.Sundarraaj, Final year / IT



Ms.S.Girija, Third year / IT

