

Dr. R. S. Sabeenian, M.E., Ph.D.
Professor and Head of The Department
Department of Electronics and Communication Engineering
Chairperson- Board of Studies in Electronics and Communication
Engineering

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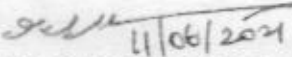
Date: 11 June 2021

Sub: Sona College of Technology (Autonomous) - 19th Meeting of the Board of Studies (Online) in the Department of Electronics and Communication Engineering held on 11th June 2021 through Microsoft Teams APP - Minutes - Communicated

I thank the members and special invitees who attended the 19th Board of Studies Meeting in the Department of Electronics and Communication Engineering (Online) held on 11th June 2021 Through Microsoft Teams APP. I wish to acknowledge the valuable contributions and suggestions made during the meeting.

Please find the enclosed copy of minutes of the 19th meeting of the Board of Studies in Electronics and Communication Engineering (online).

Yours sincerely,


11/06/2021
Dr. R. S. SABEENIAN
Chairperson

BOS - Electronics and Communication Engineering

Encl: Minutes

To

1. **Dr. R. S. SABEENIAN**, Chairperson BOS, Professor & Head, Department of Electronics and Communication Engineering, Sona College of Technology, (Autonomous), Salem 636 005.
2. **Dr. V. JEYALAKSHMI**, Professor, Department of ECE, CEG Campus, Anna University, Chennai - 600 025.
3. **Dr. K. V. ESWARAMOORTHY**, Professor, Department of Electronics Engineering, IITDM, Kurnool, Andhra Pradesh.
4. **Dr. V. R. VIJAY KUMAR**, Professor & Head, Department of ECE, Anna university regional campus, Coimbatore - 641 046.
5. **Dr. P. PRAKASH**, Associate Professor, Department of Electronics, Madras Institute of Technology, Chennai - 600 025.
6. **Mr. V. VINOTH**, Project Manager, L & T, Mysuru.

7. **Mr. M. KUMAR**, GM, Electrical & Electronics, Mahindra & Mahindra Ltd., Mahindra Research Valley, Chengalpattu.
8. **Mr. KARTHIK NAGAPPAN**, Director of Engineering and Ops, Test and Verification solutions, Chennai.
9. **Mr. SUDHARSHAN RAMAN**, Graphics Engineer, Intel, Bengaluru.
10. **Mr. SUNIL KUMAR**, CEO, VI Solutions, Bengaluru.
11. **Dr. H. ABDUL SHABEER**, Subject Matter Expert, IBM India Pvt Ltd., Chennai.
12. **Dr. M. DHANASU**, Professor, ECE, Sona College of Technology, (Autonomous), Salem 636 005.
13. **Dr. K. R. KAVITHA**, Professor, ECE, Sona College of Technology, (Autonomous), Salem 636 005.
14. **Dr. N. SASIREKHA**, Assoc. Prof., ECE, Sona College of Technology, (Autonomous); Salem 636 005.
15. **Dr. K. ANGURAJ**, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
16. **Dr. G. RAVI**, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
17. **Dr. B. THIYANESWARAN**, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
18. **Mr. J. HARIRAJKUMAR**, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
19. **Dr. M. JAMUNA RANI**, Asst. Prof. (Sr.G), ECE, Sona College of Technology, (Autonomous), Salem 636 005.
20. **Dr. T. SHANTHI**, Asst. Prof. (Sr.G), ECE, Sona College of Technology, (Autonomous), Salem 636 005.
21. **Dr. S. VIJAYALAKSHMI**, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
22. **Dr. K. MANJU**, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
23. **Mrs. M. SENTHILVADIVU**, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.

24. **Dr. M. E. PARAMASIVAM**, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
25. **Dr. R. GAYATHRI**, Assistant Professor, ECE, Sona College of Technology, (Autonomous), Salem 636 005.
26. **Dr. P. M. DINESH**, Assistant Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.

Special invitees:

27. **THE CHAIRMAN**, Sona Group of Institutions, Salem - 636 005.
28. **THE VICE CHAIRMEN**, Sona Group of Institutions, Salem - 636 005.
29. **THE PRINCIPAL**, Sona College of Technology, (Autonomous), Salem - 636 005.
30. **Dr. J. AKILANDESWARI**, Dean, Academics, Sona College of Technology, (Autonomous), Salem 636 005.
31. **Dr. S. RADJAREJESRI**, Controller of Examinations (COE), Sona College of Technology, (Autonomous), Salem 636 005.
32. **Dr. R. SHIVAKUMAR**, Member Secretary, Academic Council, Sona College of Technology, (Autonomous), Salem 636 005.
33. **Dr. S. ANITA**, Professor and Head / Placement Training, Sona College of Technology, (Autonomous), Salem 636 005.
34. **THE VICE-CHANCELLOR**, Anna University, Chennai, only for intimation.
35. **THE REGISTRAR**, Anna University, Chennai, only for intimation.

SONA COLLEGE OF TECHNOLOGY, (AUTONOMOUS), SALEM-636005

MINUTES OF THE 19th BOARD OF STUDIES MEETING (ONLINE) IN THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING HELD ON 11th June 2021, AT 11.00 A.M THROUGH MICROSOFT TEAMS APP.

BOS MEMBERS PRESENT:

S.NO	NAME	DESIGNATION
1.	Dr. R. S. Sabeenian	Chairperson BOS -ECE, Professor & HOD, Department of ECE, Sona College of Technology (SCT)
2.	Dr. V. Jeyalakshmi	Professor, Department of ECE, CEG, Campus, Anna University, Chennai - 600025
3.	Dr. P. Prakash	Associate Professor Department of Electronics, Madras Institute of Technology, Chennai - 600044
4.	Dr. K. V. Eswaramoorthy	Professor Department of Electronics Engineering, IIITDM, Kurnool, Andhra Pradesh
5.	Mr. V. Vinoth	Project Manager, L & T, Mysuru.
6.	Mr. M. Kumar	GM, Electrical & Electronics, Mahindra & Mahindra Ltd. Mahindra Research Valley Chengalpattu.
7.	Mr. Sudharsan Raman	Graphics Engineer, Intel, Bengaluru.
8.	Mr. Karthik Nagappan	Director of Engineering and Ops, Test and Verification Solutions, Chennai.
9.	Dr. H. Abdul Shabeer	Subject Matter Expert, IBM India Pvt Ltd., Chennai.
10.	Dr. K. R. Kavitha	Professor/ECE
11.	Dr. N. Sasirekha	Associate Professor/ECE
12.	Dr. K. Anguraj	Associate Professor/ECE
13.	Dr. G. Ravi	Associate Professor/ECE
14.	Dr. B. Thiyaneswaran	Associate Professor/ECE

15.	Mr. J. Harirajkumar	Associate Professor/ECE
16.	Dr. M. Jamuna Rani	Assistant Professor (Sr. G)/ECE
17.	Dr. T. Shanthi	Assistant Professor (Sr. G)/ECE
18.	Dr. S. Vijayalakshmi	Assistant Professor/ECE
19.	Dr. K. Manju	Assistant Professor/ECE
20.	Mrs. M. Senthilvadivu	Assistant Professor/ECE
21.	Dr. M. E. Paramasivam	Assistant Professor/ECE
22.	Dr. R. Gayathri	Assistant Professor/ECE
23.	Dr. P.M. Dinesh	Assistant Professor/ECE
24.	Mr. Harivignesh	Student/ECE
25.	Ms. Kanishka Karthikeyan	Student/ECE
26.	Ms. Srimathi	Student/ECE
27.	Ms. Ganasri	Student/ECE
28.	Mr. S. M. Subhash	Student/ECE
29.	Mr. A. Mugeshbabu	Student/ECE
30.	Ms. C. Sarah Christel	Student/ECE
31.	Ms. A. Karthikayani	Student/ECE

SPECIAL INVITEES PRESENT

S.NO	NAME	DESIGNATION
1.	Sri. C. Valliappa	Chairman, Sona Group of Institutions
2.	Sri. Chocko Valliappa	Vice Chairman, Sona Group of Institutions
3.	Sri. Thyagu Valliappa	Vice Chairman, Sona Group of Institutions
4.	Dr. S.R.R. Senthil Kumar	Principal, SCT
5.	Dr. J. Akilandeswari	Dean, Academics, SCT
6.	Dr. S. Radjarejesri	Controller of Examinations (COE), SCT
7.	Dr. R. Shivakumar	Member Secretary, Academic Council, SCT
8.	Dr. S. Anita	Professor and Head / Placement Training, SCT

19.1 Considered the confirmation of the minutes of the 18th BOS ECE meeting held on 10.12.2020. **RESOLVED** to confirm the minutes of the 18th Meeting of the Board of Studies in Electronics and Communication Engineering Department held on 10.12.2020 that was communicated to the members.

19.2 Agenda of 19th BOS meeting :

- Department vision and mission
- Approval of curriculum and syllabus of V semester B.E. – ECE for Regulation 2019.
- Discussion and approval of curriculum of VI semester B.E. – ECE for Regulation 2019.
- Discussion and approval of curriculum for the new programme B.Tech -Wearable Technology.

RESOLVED to note that the committee consisting of the following members have deliberated and formulated curriculum and syllabus for **B.E. ELECTRONICS AND COMMUNICATION ENGINEERING.**

- (i) **Dr. R. S. SABEENIAN**, Chairperson BOS, Professor & Head, Electronics and Communication Engineering, Sona College of Technology, (Autonomous), Salem 636 005.
- (ii) **Dr. M. DHANASU**, Professor, ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (iii) **Dr. K. R. KAVITHA**, Professor, ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (iv) **Dr. N. SASIREKHA**, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (v) **Dr. K. ANGURAJ**, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (vi) **Dr. G. RAVI**, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (vii) **Dr. B. THIYANESWARAN**, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (viii) **Mr. J. HARIRAJKUMAR**, Assoc. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.

- (ix) **Dr. M. JAMUNA RANI**, Asst. Prof. (Sr.G), ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (x) **Dr. T. SHANTHI**, Asst. Prof. (Sr.G), ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (xi) **Dr. S. VIJAYALAKSHMI**, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (xii) **Dr. K. MANJU**, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (xiii) **Mrs. M. SENTHILVADIVU**, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (xiv) **Dr. M. E. PARAMASIVAM**, Asst. Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (xv) **Dr. R. GAYATHRI**, Assistant Professor, ECE, Sona College of Technology, (Autonomous), Salem 636 005.
- (xvi) **Dr. P. M. DINESH**, Assistant Prof., ECE, Sona College of Technology, (Autonomous), Salem 636 005

B.E ECE REGULATION- 2019

- 19.2.1 **Dr. R. S. Sabeenian**, Chairperson of BOS ECE presented the 19th online BOS ECE through Microsoft Teams APP.
- 19.2.2 For the course, Microprocessor and Microcontroller, Dr. V. Jeyalakshmi suggested that the sixth reference book may be brought as text book. Mr.Sudharsan Raman suggested applications of stepper motor in automobiles and medical devices and case studies for microcontroller can be included in unit V.
- 19.2.3 For the course Transmission Lines and waveguides, Dr.P. Prakash suggested to include the book authored by Jordan & Balmain as text book.
- 19.2.4 For the course Digital communication, Mr. Sudharsan Raman recommended to include PAM with correlation and applications of ASK, FSK, PSK, DPSK with industry scenario. Mr. M. Kumar suggested to include applications of PWM in Digital Communication Laboratory.

- 19.2.5 For the Course VLSI Design, Dr. V.Jeyalakshmi suggested to include Testing stuck at faults, Testing of sequential logic circuits and combinational circuits can be included in unit V. Mr. V. Vinoth suggested to include the concept of adders and corresponding coding part in unit IV.
- 19.2.6 For the course Computer Architecture Mr. M. Kumar suggested to include both Analog and Digital hardware control in Unit II. Mr. V. Vinoth recommended to include evolution of USB, contents related to USB as device or host in Unit V.
- 19.2.7 For the course, Information Theory and Coding, Dr.P.Prakash suggested to include the book authored by Kowar as text book. Dr. V. Jeyalakshmi suggested to replace cyclic codes, linear block codes by some other topics as they are already covered in the course Digital Communication. Mr. Sudharshan Raman recommended to include real time applications associated with Huffman coding.
- 19.2.8 For the course Nano Electronics, Dr. V. Jeyalakshmi recommended to include latest books in the reference books that includes recent researches in FinFET and single Electron Devices.
- 19.2.9 For the course Biomedical Electronics, Dr. H. Abdul shabeer suggested to encourage hospital visit for the course. Dr. V. Jeyalakshmi suggested to include smart watch for pulse beat monitoring. As the contents of unit II & III are same, smart techniques may be included in unit III and guest lectures may be arranged instead of assignments. Dr. K. V. Eswaramoorthy suggested to arrange guest lectures by medical practitioners and biomedical engineering technicians as resource persons.
- 19.2.10 Mr. Chocko Valliappa suggested to include wearable technologies as one of the professional elective since it's very useful in current scenario.
- 19.2.11 Dr. K. V. Eswaramoorthy suggested to have minor courses with specialization in state of art topics like Artificial Intelligence, Machine Learning ,etc to deal with latest technologies for B.E –ECE degree.
- 19.2.12 For the course Measurements and Instrumentation, Dr V. Jeyalakshmi recommended to include smart display techniques in unit IV. Introduction to Labview may be included in any of the units. Mr. V. Vinoth recommended to include the topics Accuracy, Data standards in unit I, Evaluation of CRO,DSO,MSO in Unit III and case study for data acquisition in unit V.

- 19.2.13 For the course, Virtual Instrumentation Dr.P.Prakash insisted to include recent edition books in textbooks and reference books.
- 19.2.14 For the course, VLSI Lab, Dr. V. Jeyalakshmi suggested to include Implementation of Boolean equation and its analysis.
- 19.2.15 For the course Soft Skills and Aptitude – III, the committee has approved the course and a member Mr. M. Kumar suggested to include telephonic interview and zoom mock interviews.
- 19.2.16 For the Programme B. Tech - Wearable Technology DrV.Jeyalakshmi and Mr.M.Kumar suggested to include cloud computing course. Mr.V.Vinoth and Mr. Sudharsan suggested the topics like AC-DC conversion, Battery power management, Device Drivers, etc., to be included in any of the courses. Mr.V.Vinoth also suggested that Touch screen principles, Touch screen evaluation, Resistance or capacitance based principles can be added instead of Data Analytics. Mr.Sudharsan suggested to have Bluetooth based devices for the same programme.
- 19.2.17 Review and comments were received from industry experts for the V semester courses. The details of experts are given below:
- Mr. Arunesh Karthik, Lead System Engineer, Wipro GE Health Care, Bengaluru.
 - Mr. A. P. Sivaraman, Director, Sinetec Technologies, Coimbatore
 - Mr. S. Sundaramoorthy, Managing Director, Sunshiv Electronics, Coimbatore.
 - Mr. Sudharshan Raman, Graphics Engineer, Intel, Bengaluru.
 - Mr. K. P. Harsha Prasanna, CEO, Salieabs, Salem.
 - Mr.T.N.Rajvignesh, CEO, Dilogy Solutions, Bengaluru.
 - Mr.S.P.Selvakumar, Senior Python Developer, Dilogy Solutions, Bengaluru.
 - Mr.Amith Kamath, Mathworks, Bengaluru.
 - Mr. Karthik Nagappan, Director of Engineering and Ops, Test and Verification solutions, Chennai
 - Mr.Amritha Ganesh ,Armada Industrial Automation, Thanjavur
 - Dr.K.Moorthi ,Enthu Technology Solutions India Pvt Ltd
 - Mr.Navaneeth Malingan, Nunnari labs, Coimbatore.

[Signature]
11/06/2024

Dr. R. S. Sabeenian
Chairperson

BOS - Electronics and Communication Engineering