ADHIYAMAAN COLLEGE OF ENGINEERING, HOSUR-635 109
(Autonomous)
BOARD OF STUDIES IN ELECTRONICS & COMMUNICATION ENGINEERING

Minutes of the Twenty-sixth Meeting

Minutes of the 26th Meeting of the Board of Studies in Electronics & Communication Engineering 22.07.2022 held on at11.00 A.M.

MEMBERS PRESENT

1. Dr. S. Sumathi, Chairman
2. Dr. T Menakadevi,Internal Member
3. Dr.R.Poovendran, Internal Member
4. Mr. M. AshokKumar, Internal Member
5. Dr.T.S.UdhayaSuriya , Interdisciplinary Member,HoD/BME
6. Dr.B.Perumal,InterdisciplinaryMember,Dept of EEE
7. Dr.K.Senthil,InterdisciplinaryMember,Dept of EEE
8. Prof.Dr.A.Sivanantha Raja, University Nominee
9. Prof.Dr.K.Mariammal, Academic Council Nominee
10. Prof.Dr.M.Dhinakaran, Academic Council Nominee
11. Smt.SudhaM,Industry Representative
12. Mr. S. Munirajsankar, Alumnus Member

26.1 To consider the minutes of the 25th Board of Studies meeting in Electronics and Communication Engineering held on 18.09.2021.

RESOLVED that the minutes of the 25th Board of Studies meeting in Electronics and Communication Engineering held on 18.09.2021.have been considered.

26.2 To consider the Syllabi of 7th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019– 2020.

RESOLVED that the Syllabi of 7th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019– 2020 be approved (Annexure I)

26.3 To consider the EEC category elective course entitled "Professional Readiness for Innovation, Employability and Entrepreneurship" approved from the Centre for Academic Courses, Chennai for 7th semester B.E Electronics and Communication Engineering programme under the regulations 2018 (CBCS) for the batch of students admitted in 2019-2020.

RESOLVED thatthe EEC category elective course entitled "Professional Readiness for Innovation, Employability and Entrepreneurship" approved from the Centre for Academic Courses, Chennai for 7th semester B.E Electronics and Communication Engineering

programme under the regulations 2018 (CBCS) for the batch of students admitted in 2019-2020 be approved (Annexure- II).

26.4 To consider the Syllabi of 5th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2020 – 2021.

RESOLVED that the Syllabi of 5th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2020 – 2021 be approved(Annexure III)

26.5 To consider the Syllabi of "Microprocessors and Microcontrollers" and "Microprocessors and Microcontrollers Laboratory" for 5th Semester B.E. (Computer Science and Engineering/Information Technology) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2020 – 2021.

RESOLVED that the Syllabi of "Microprocessors and Microcontrollers" and "Microprocessors and Microcontrollers Laboratory" for 5th Semester B.E. (Computer Science and Engineering/Information Technology) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2020 – 2021be approved (Annexure IV)

26.6 To consider the Syllabi of 3rdSemester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2021 – 2022.

RESOLVED the Syllabi of 3rdSemester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2021 – 2022be approved. (Annexure V)

26.7 To consider the Syllabi of "Digital Electronics" and "Digital Electronics Laboratory" for 3rd Semester B.E. (Computer Science and Engineering/Information Technology) programme under the Regulation 2018 (CBCS) for the batch of students admitted in 2021 – 2022.

RESOLVEDthat the Syllabi of "Digital Electronics" and "Digital Electronics Laboratory" for 3rd Semester B.E. (Computer Science and Engineering/Information Technology) programme under the Regulation 2018 (CBCS) for the batch of students admitted in 2021 – 2022 be approved (Annexure VI)

26.8 To consider the Syllabus of "Communication Engineering" for 3rd Semester B.Tech. (Information Technology) programme under the Regulation 2018 (CBCS) for the batch of students admitted in 2021 – 2022.

RESOLVED the Syllabus of "Communication Engineering" for 3rd Semester B.Tech. (Information Technology) programme under the Regulation 2018 (CBCS) for the batch of students admitted in 2021 – 2022 be approved (Annexure VII)

26.9 To consider the curriculum of B.E Electronics and Communication Engineering under the Regulations 2022 to be followed as per choice based credit systems for the batch of the students to be admitted during 2022-2023. (Under Processing)

26.10 To consider the Syllabi of 3rd Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS)for the batch of students admitted in 2021-2022.

RESOLVED the Syllabi of 3rd Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS)for the batch of students admitted in 2021-2022 be approved.(Annexure IX)

26.11 To consider the curriculum of M.E Communication Systems under the Regulations 2022 to be followed as per choice-based credit systems for the batch of the students to be admitted during 2022-2023.

RESOLVED consider the curriculum of M.E Communication Systems under the Regulations 2022 to be followed as per choice based credit systems for the batch of the students to be admitted during 2022-2023 be approved.(Annexure X)

26.12 To consider the Syllabi of 1st Semester M.E. (Communication Systems) programme under the Regulations 2022 (CBCS) for the batch of students to be admitted in 2022-2023.

RESOLVED the Syllabi of 1st Semester M.E. (Communication Systems) programme under the Regulations 2022 (CBCS) for the batch of students to be admitted in 2022-2023 be approved.(Annexure XI)

26.14 To consider the list of Examiners for the conduction of examinations (Practical & Theory) for the academic year 2022-2023.

RESOLVED consider the list of Examiners for the conduction of examinations (Practical & Theory) for the academic year 2022-2023be approved.(Annexure XIII)

Date: 22.07.2022

Signature of Chairman –BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS), HOSUR-635 109
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Members Present for the Twenty Sixth Board of Studies Meeting held on 22.07.2022

Sl.No.	Name & Address of the Members	Category	Signature
1	Dr. S. Sumathi, Ph.D (VLSI)., Prof & Head, Dept. of ECE, ACE, Hosur.	BoS-Chairman	
2	Dr. T.Menakadevi.,M.Tech (VLSI),Ph.D., Professor, Dept. of ECE, ACE, Hosur.	Internal Member	
3	Dr.R.Poovendran.,P.h.D., AP, Dept. of ECE, ACE, Hosur.	Internal Member	
4	Mr. M. Ashok Kumar, M.E, Assistant professor, Dept. of ECE, ACE, Hosur.	Internal Member	
5	Dr.T.S.UdhayaSuriya Professor & Head Department of BME, ACE, Hosur.	Interdisciplinary Member	
6	Prof.Dr.B.Perumal, Ph.D.,Asso.Professor& Head/Dept. of EEE Adhiyamaan College of Engineering, Hosur.	Interdisciplinary Member	
7	Prof.Dr.K.Senthil, Ph.D.,Asso.Professor/Dept. of EEE Adhiyamaan College of Engineering, Hosur.	Interdisciplinary Member	
8	Prof.Dr.ASivanantha Raja.,Ph.D Professor & Head ,Dept. of ECE, AlagappaChettiar Government College of Engineering and Technology,Karaikudi	University Nominee	Online mode
9	Prof.Dr. K.Mariammal.,Ph.D., Assistant Professor (Sr Gr), Department of Electronics Engineering, Madras Institute of Technology Anna University, Chennai.	Academic Council Nominee	Online mode
10	Prof.Dr. M.Dhinakaran.,Ph.D., Associate Professor, Dept. of ECE,Government College of Engineering, Salem	Academic Council Nominee	Online mode
11	Smt. Sudha M Larsen and Toubro (L & T) Defence, Bangalore ,	Industry Representative	Online mode
12	Mr. S. MunirajSankar Senior Specialist , HCL Technologies Ltd ,Chennai	Alumnus Member	Online mode

Date: 22.07.2022

Signature of the Chairman-BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur.- 635 109
Krishnagiri (Dt), Tamil Nadu.

Department of ECE- 26th BoS Recommendations			
Sem	**Course Code**	**Course Name**	**Remarks** (New course Introduced/ Contents incorporated in the corresponding course)
		2022-2023 **Under UG Programme Regulations-2018 Curriculum**	
VII	718ECP09	Professional Readiness for Innovation, Employability and Entrepreneurship	As per the Centre for Academic Courses, Anna University, Chennai, this course is introduced for 7th semester B.E Electronics and Communication Engineering programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019-2020
		2022-2023 **Under PG Programme Regulations-2022 Curriculum**	
I	122COT03	Modern Digital Communication Techniques	The existing syllabus has been **reframed** with the following unit modules **UNIT II-EQUALIZATION TECHNIQUES** Band Limited Channels- ISI – Nyquist Criterion-Controlled ISI-Partial Response signals, Equalization algorithms– Linear equalizer – Decision feedback equalization – Adaptive Equalization algorithms. **UNIT V-MULTICARRIER AND MULTIUSER COMMUNICATIONS** Single Vs multicarrier modulation, orthogonal frequency division multiplexing (OFDM), Modulation and demodulation in an OFDM system, An FFT algorithmic implementation of an OFDM system, Bit and power allocation in multicarrier modulation, Peak-to-average ratio in multicarrier modulation. Introduction to CDMA systems, multiuser detection in CDMA systems – optimum multiuser receiver, suboptimum detectors, successive interference cancellation.
I	122COT04	Advanced Wireless Communication	Newly Introduced Course

I	122COT05	Advanced Radiation Systems	The existing syllabus has been **reframed** with the following unit modules **UNIT IV-MODERN ANTENNAS & MEASUREMENT TECHNIQUES** Base station antennas, PIFA – Antennas for WBAN – RFID Antennas – Automotive antennas,MIMO Antennas, Diversity techniques – Antenna impedance and radiation pattern measurements **UNIT V- RECENT TRENDS IN ANTENNA DESIGN** UWB antenna arrays – Vivaldi antenna arrays – Artificial magnetic conductors/High impedance surfaces – Antennas in medicine – Plasma antennas – Antennas for millimeter wave communication - optimization techniques – Numerical methods
I	122COT06	Research Methodology& IPR	Newly Introduced Course
I	122COAXX	Audit Course-1*	Newly Introduced Non-Credit Course
I	122COP02	Advanced Digital Signal Processing Laboratory	Newly Introduced
II	222COT01	RF system design	Newly Introduced Course
II	222COT03	Advanced Wireless Networks	Newly Introduced Course
II	222COOXX	Open Elective	Newly Introduced Course offered by other Departments
II	222COAXX	Audit Course-II	Newly Introduced Non-Credit Course
II	222COP02	Term Paper and Seminar	Newly Introduced
II	222COE06	Advanced Satellite Communication and Navigation systems	Newly Introduced Elective Course
II	222COE10	mm Wave Communication	Newly Introduced Elective Course
II	222COE12	Sensor Networks and IoT	Newly Introduced Elective Course
III	322COT01	Optical and Mobile Communication Networks	Newly Introduced Course
III	322COT02	Pattern Recognition and Machine Learning	Newly Introduced Course

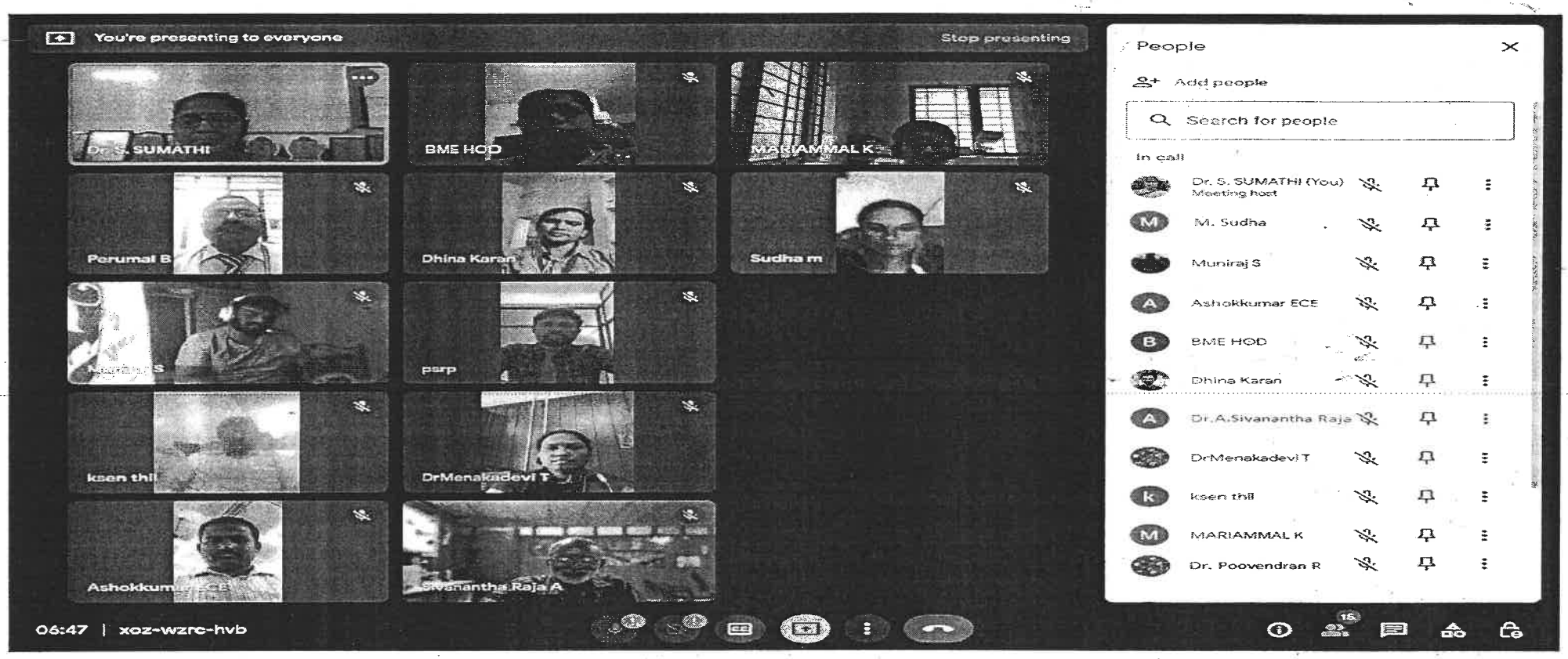
III	322COE06	Software Defined Radio	Newly Introduced Elective Course
III	322COE12	Remote Sensing	Newly Introduced Elective Course
I/II	X22COA01	English for Research Paper Writing	Newly Introduced Audit courses (Non-Credit Course)
I/II	X22COA02	Disaster Management	
I/II	X22COA03	Constitution of India	
I/II	X22COA04	நற்றமிழ் இலக்கியம்	

Feedback obtained about curriculum and syllabus from stakeholders (Students, Faculty, Employers & Alumni) were also discussed and concluded.

BoS Chairman

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING[AUTONOMOUS] , HOSUR-635109
FACULTY OF ELECTRONICS & COMMUNICATION ENGINEERING[UG&PG]
PHOTO OF 26thBoS MEETING ON 22.07.2022



Date: 22.07.2022

Signature of Chairman –BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING, HOSUR-635 109

(Autonomous)

BOARD OF STUDIES IN ELECTRONICS & COMMUNICATION ENGINEERING

Minutes of the Twenty-Fifth Meeting

Minutes of the 25th Meeting of the Board of Studies in Electronics & Communication Engineering held on 18.09.2021 at 09.30 A.M.

MEMBERS PRESENT

1. Dr. S. Sumathi, Chairman
2. Dr. T Menakadevi,Internal Member
3. Dr.R.Poovendran, Internal Member
4. Dr.N.Nagaraju, Internal Member
5. Dr.T.S.UdhayaSuriya , Interdisciplinary Member,HoD/BME
6. Dr.B.Perumal,Interdisciplinary Member,Dept of EEE
7. Dr.K.Senthil, Interdisciplinary Member,Dept of EEE
8. Prof.Dr.A.Sivanantha Raja, University Nominee
9. Prof.Dr.K.Mariammal, Academic Council Nominee
10. Prof.Dr.M.Dhinakaran, Academic Council Nominee
11. Smt.Sudha M,Industry Representative
12. Mr. S. Munirajsankar, Alumnus Member

25.1 To consider the minutes of the 24th Board of Studies meeting in Electronics and Communication Engineering held on 27.03.2021.

RESOLVED that the minutes of the 24th Board of Studies meeting in Electronics and Communication Engineering held on 27.03.2021 have been considered.

25.2 To consider the Syllabi of 8th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2018– 2019.

RESOLVED that the Syllabi of 8th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2018– 2019 be approved (Annexure I)

25.3 To consider the Syllabi of 6th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019 – 2020.

RESOLVED that the Syllabi of 6th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019 – 2020 be approved (Annexure II)

25.4 To consider the Syllabi of 4th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2020 – 2021.

RESOLVED that the Syllabi of 4th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2020 – 2021be approved (Annexure III)

25.5 To consider the Syllabi of "Electric Circuits and Electron Devices" and "Circuits and Devices Laboratory" for 2nd Semester B.E (Electronics & Communication Engineering programme) under the Regulations 2018 (CBCS) for the batch of students to be admitted in 2021 – 2022.

RESOLVED the Syllabi of "Electric Circuits and Electron Devices" and "Circuits and Devices Laboratory" for 2nd Semester B.E (Electronics & Communication Engineering programme) under the Regulations 2018 (CBCS) for the batch of students to be admitted in 2021 – 2022 be approved. (Annexure IV)

25.6 To consider the Syllabi of 4th Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2020-2021.

RESOLVED that the Syllabi of 4th Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2020-2021 be approved (Annexure V)

25.7 To consider the Syllabi of 1st Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students to be admitted in 2021-2022.

RESOLVED that the Syllabi of 1st Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students to be admitted in 2021-2022 be approved (Annexure VI)

25.8 To consider the Subjects for course work of Ph.D programme in the Department of Electronics and Communication Engineering.

RESOLVED the Subjects for course work of Ph.D programme in the Department of Electronics and Communication Engineering be approved. (Annexure VII)

25.9 To consider the list of Examiners for the conduction of examinations (Practical & Theory) for the academic year 2021-2022.

RESOLVED that the list of Examiners for the conduction of examinations (Practical & Theory) for the academic year 2021-2022 be approved. (Annexure VIII)

Date: 07.10.2020

Signature of Chairman –BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS), HOSUR-635 109
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Members Present for the Twenty Fifth Board of Studies Meeting held on 18.09.2021

Sl.No.	Name & Address of the Members	Category	Signature
1	Dr. S. Sumathi, Ph.D (VLSI)., Prof & Head, Dept. of ECE, ACE, Hosur.	BoS-Chairman	
2	Dr. T.Menakadevi.,M.Tech (VLSI),Ph.D., Professor, Dept. of ECE, ACE, Hosur.	Internal Member	
3	Dr.R.Poovendran.,M.E.,(VLSI Design) AP, Dept. of ECE, ACE, Hosur.	Internal Member	
4	Prof.Dr. N.Nagaraju., Ph.D., Asst. Professor, Dept.of ECE, ACE,Hosur	Internal Member	
5	Dr.T.S.Udhaya Suriya Professor & Head Department of BME, ACE, Hosur.	Interdisciplinary Member	
6	Prof.Dr.B.Perumal, Ph.D.,Asso.Professor /Dept. of EEE Adhiyamaan College of Engineering, Hosur.	Interdisciplinary Member	
7	Prof.Dr.K.Senthil, Ph.D.,Asso.Professor /Dept. of EEE Adhiyamaan College of Engineering, Hosur.	Interdisciplinary Member	
8	Prof.Dr.A Sivanantha Raja.,Ph.D Professor & Head ,Dept. of ECE, Alagappa Chettiar Government College of Engineering and Technology,Karaikudi	University Nominee	Online mode
9	Prof.Dr. K.Mariammal., Ph.D., Assistant Professor (Sr Gr), Department of Electronics Engineering, Madras Institute of Technology Anna University, Chennai.	Academic Council Nominee	Online mode
10	Prof.Dr. M.Dhinakaran.,Ph.D., Assistant Professor, Dept. of ECE, Government College of Engineering, Salem	Academic Council Nominee	Online mode
11	Smt. Sudha M Larsen and Toubro (L & T) Defence, Bangalore ,	Industry Representative	Online mode
12	Mr. S. Muniraj Sankar Senior Specialist , HCL Technologies Ltd ,Chennai	Alumnus Member	Online mode

Date: 18.09.2021

Signature of the Chairman-BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

Department of ECE- 25thBOS Recommendations

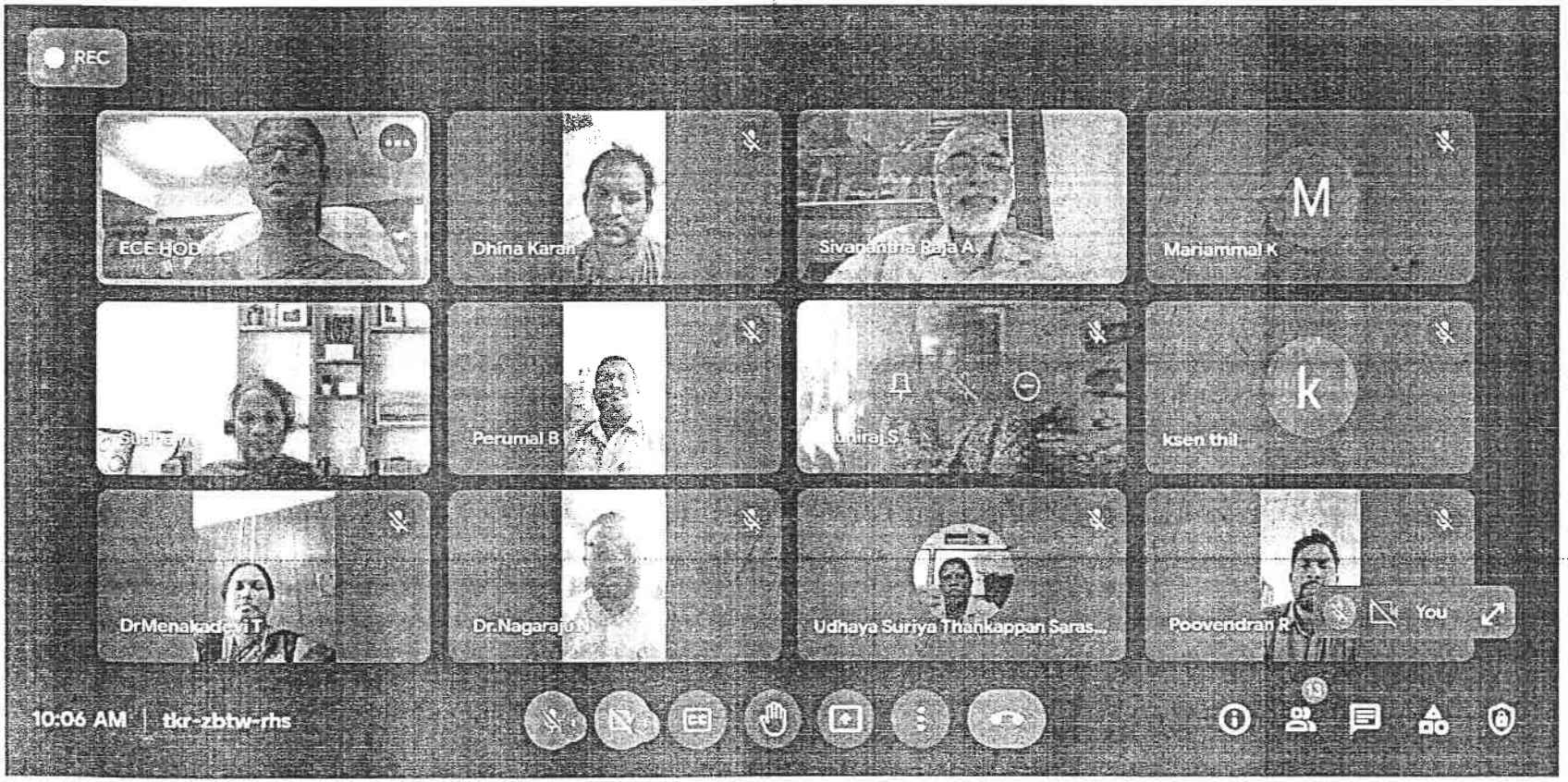
Sem	Course Code	Course Name	Remarks (New course Introduced/ Contents incorporated in the corresponding course)
VIII	818ECE02	ARM System Architecture and applications	The following topics are included in the existing syllabus, • ARM Organization • 3-Stage Pipeline • 5-Stage Pipeline
VIII	818ECE03	Radar and Navigational Aids	**The following topics are included in the existing syllabus,** **Introduction-Four Methods of Navigation**
VIII	818ECE04	Parallel and Distributed Processing	**Newly Introduced Course.** The unit modules are as follows: • Introduction to distributed and parallel systems • Communication in distributed and parallel environment • Distributed operating systems • Distributed resource management • Fault tolerance and consensus
VIII	818ECE05	Compressive sensing	**Newly Introduced Course.** The unit modules are as follows • Introduction to compressed sensing • Sparsity and signal recovery • Recovery algorithms • Compressive sensing for wsn • Applications of compressive sensing
VIII	818ECE06	MEMS and NEMS	**Newly Introduced Course.** The unit modules are as follows: • Overview and introduction • Mems fabrication technologies • Micro sensors • Micro actuators • Essentials of nano scale systems/ structure
VIII	818ECE08	Satellite Communication	**The following topics are included in the existing syllabus,** DAMA Assignment Methods, Compression-encryption, Coding Schemes.
VIII	818ECE09	Microwave Integrated Circuits Design	**Newly Introduced Course.** The unit modules are as follows: • Power dividers • Filter design • Analysis of transistor amplifier • Oscillator design • Diode mixer

VIII	818ECE11	Advanced Wireless Communication	**Newly Introduced Course.** The unit modules are as follows: • Capacity of wireless channels • Radio wave propagation • Space time block codes • Space time trellis codes • Layered space time codes
VIII	818ECE12	DSP Architecture and Programming	**Newly Introduced Course.** The unit modules are as follows: • Fundamentals of programmable DSPs • Tms320c3x processor • ADSP processors • Advanced processors I • Advanced processors II
Feedback obtained about curriculum and syllabus from stakeholders (Students, Faculty, Employers & Alumni) were also discussed and concluded.			

BOS CHAIRMAN

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING [AUTONOMOUS] , HOSUR-635109
FACULTY OF ELECTRONICS & COMMUNICATION ENGINEERING[UG&PG]
PHOTO OF 25th BoS MEETING ON 18.09.2021 (Online mode)



Date: 18.09.2021

Signature of Chairman –BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING, HOSUR-635 109

(Autonomous)

BOARD OF STUDIES IN ELECTRONICS & COMMUNICATION ENGINEERING

Minutes of the Twenty-Fourth Meeting

Minutes of the 24th Meeting of the Board of Studies in Electronics & Communication Engineeringheld on 27.03.2021 at 11.00 A.M.

MEMBERS PRESENT

1. Dr. S. Sumathi, Chairman
2. Dr. T Menakadevi,Internal Member
3. Dr.R.Poovendran, Internal Member
4. Dr.N.Nagaraju, Internal Member
5. Prof.S.VijayMurugan,Internal Member
6. Dr.T.S.UdhayaSuriya , Interdisciplinary Member,HoD/BME
7. Dr.B.Perumal,Interdisciplinary Member,Dept of EEE
8. Prof.Dr.A.Sivanantha Raja, University Nominee
9. Prof.Dr.K.Mariammal, Academic Council Nominee
10. Prof.Dr.M.Dhinakaran, Academic Council Nominee
11. Smt.Sudha M,Industry Representative
12. Mr. S. Munirajsankar, Alumnus Member

24.1 To consider the minutes of the 23rd Board of Studies meeting in Electronics and Communication Engineering held on 07.10.2020.

RESOLVED that the minutes of the 23rd Board of Studies meeting in Electronics and Communication Engineering held on 07.10.2020.have been considered.

24.2 To consider the Syllabi of 7th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018(CBCS) for the batch of students admitted in 2018 – 2019..

RESOLVED that the Syllabi of 7th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018(CBCS) for the batch of students admitted in 2018 – 2019be approved (Annexure I)

24.3 To consider the Syllabi of 5th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019 – 2020.

RESOLVED that the Syllabi of 5th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019 – 2020 be approved (Annexure II)

24.4 To consider the Syllabi of "Microprocessors and Microcontrollers" and "Microprocessors and Microcontrollers Laboratory" for 5th Semester B.E. (Computer Science and Engineering/Information Technology) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019 – 2020.

RESOLVED that the Syllabi of "Microprocessors and Microcontrollers" and "Microprocessors and Microcontrollers Laboratory" for 5th Semester B.E. (Computer Science and Engineering/Information Technology) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019 – 2020 be approved(Annexure III)

24.5 To consider the Syllabi of 3rd Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2020 – 2021.

RESOLVED that the Syllabi of 3rd Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2020 – 2021 be approved(Annexure IV)

24.6 To consider the Syllabi of "Digital Electronics" and "Digital Electronics Laboratory" for 3rd Semester B.E. (Computer Science and Engineering/Information Technology) programme under the Regulation 2018 (CBCS) for the batch of students admitted in 2020 – 2021.

RESOLVED that consider the Syllabi of "Digital Electronics" and "Digital Electronics Laboratory" for 3rd Semester B.E. (Computer Science and Engineering/Information Technology) programme under the Regulation 2018 (CBCS) for the batch of students admitted in 2020 – 2021 be approved (Annexure V)

24.7 To consider the Syllabus of "Communication Engineering" for 3rd Semester B.Tech. (Information Technology) programme under the Regulation 2018 (CBCS) for the batch of students admitted in 2020 – 2021.

RESOLVED that the Syllabus of "Communication Engineering" for 3rd Semester B.Tech. (Information Technology) programme under the Regulation 2018 (CBCS) for the batch of students admitted in 2020 – 2021 be approved (Annexure VI)

24.8 To consider the Syllabi of 3rd Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2020-2021.

RESOLVEDthat the Syllabi of 3rd Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2020-2021be approved (Annexure VII)

24.9 To consider the Syllabi of 1st Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students to be admitted in 2021-2022.

RESOLVEDthat consider the Syllabi of 1st Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students to be admitted in 2021-2022 be approved (Annexure VIII)

24.10 To consider the Subjects for course work of Ph.D programme in the Department of Electronics and Communication Engineering.

RESOLVED the Subjects for course work of Ph.D programme in the Department of Electronics and Communication Engineeringbe approved. (Annexure IX)

24.11 To consider the list of Examiners for the conduction of examinations (Practical &Theory) for the academic year 2021-2022.

RESOLVED thatthe list of Examiners for the conduction of examinations (Practical & Theory) for the academic year 2021-2022 be approved. (Annexure X)

Date: 27.03.2021

Signature of Chairman –BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS), HOSUR-635 109
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Members Present for the Twenty Fourth Board of Studies Meeting held on 27.03.2021

Sl.No.	Name & Address of the Members	Category	Signature
1	Dr. S. Sumathi, Ph.D (VLSI)., Prof & Head, Dept. of ECE, ACE, Hosur.	BoS-Chairman	
2	Dr. T.Menakadevi.,M.Tech (VLSI),Ph.D., Professor, Dept. of ECE, ACE, Hosur.	Internal Member	
3	Dr.R.Poovendran.,M.E.,(VLSI Design) AP, Dept. of ECE, ACE, Hosur.	Internal Member	
4	Prof.Dr. N.Nagaraju., Ph.D.,. Asst. Professor, Dept.of ECE, ACE,Hosur	Internal Member	
5	Prof.S.Vijay Murugan ,M.E., Asso.Professor , Dept. of ECE , ACE, Hosur.	Internal Member	
6	Dr.T.S.Udhaya Suriya Professor & Head Department of BME, ACE, Hosur.	Interdisciplinary Member	
7	Prof.Dr.B.Perumal, Ph.D.,Asso.Professor /Dept. of EEE Adhiyamaan College of Engineering, Hosur.	Interdisciplinary Member	
8	Prof.Dr.A Sivanantha Raja.,Ph.D Professor & Head ,Dept. of ECE, Alagappa Chettiar Government College of Engineering and Technology,Karaikudi	University Nominee	Online mode
9	Prof.Dr. K.Mariammal., Ph.D., Assistant Professor (Sr Gr), Department of Electronics Engineering, Madras Institute of Technology Anna University, Chennai.	Academic Council Nominee	Online mode
10	Prof.Dr. M.Dhinakaran.,Ph.D., Assistant Professor, Dept. of ECE, Government College of Engineering, Salem	Academic Council Nominee	Online mode
11	Smt. Sudha M Larsen and Toubro (L & T) Defence, Bangalore ,	Industry Representative	Online mode
12	Mr. S. Muniraj Sankar Senior Specialist , HCL Technologies Ltd ,Chennai	Alumnus Member	Online mode

Date: 27.03.2021

Signature of the Chairman-BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

Department of ECE- 24th BOS Recommendations

Sem	Course Code	Course Name	Remarks (New course Introduced/ Contents incorporated in the corresponding course)
VII	718ECT01	Adhoc and Wireless Sensor Networks	**Newly Introduced Course.** The unit modules are as follows: • Ad hoc networks – introduction and routing protocols • Sensor networks – introduction & architectures • Wsn networking concepts and protocols • Sensor network security • Sensor network platforms and tools
VII	718ECT02	Optical Communication	The following topics are included in the existing syllabus, • SOURCES & DETECTORS (unit-3) • coupling(unit-4)
VII	718ECT03	Antenna and Microwave Engineering	The existing syllabus has been reframed with the following unit modules • Introduction to microwave systems and antennas • Radiation mechanisms and design aspects • Antenna arrays and applications • Passive and active microwave devices Microwave design principles
VII	718ECT04	Embedded Systems	The following topics are included in the existing syllabus, • Case Study of Washing Machine- • Automotive Application- Smart card System Application- • ATM machine • Digital camera
VII	718ECE01	Advanced Digital Signal Processing	The following topics are removed in the existing syllabus, Transmultiplexer filter banks (unit-3)
VII	718ECE02	RF System Design	The following topics are included in the existing syllabus, • Design of RF oscillator using CAD (unit-5) • PLL using CAD (unit-5)
VII	718ECE03	Multimedia Compression Techniques	**Newly Introduced Course.** The unit modules are as follows • Multimedia components • Text compression

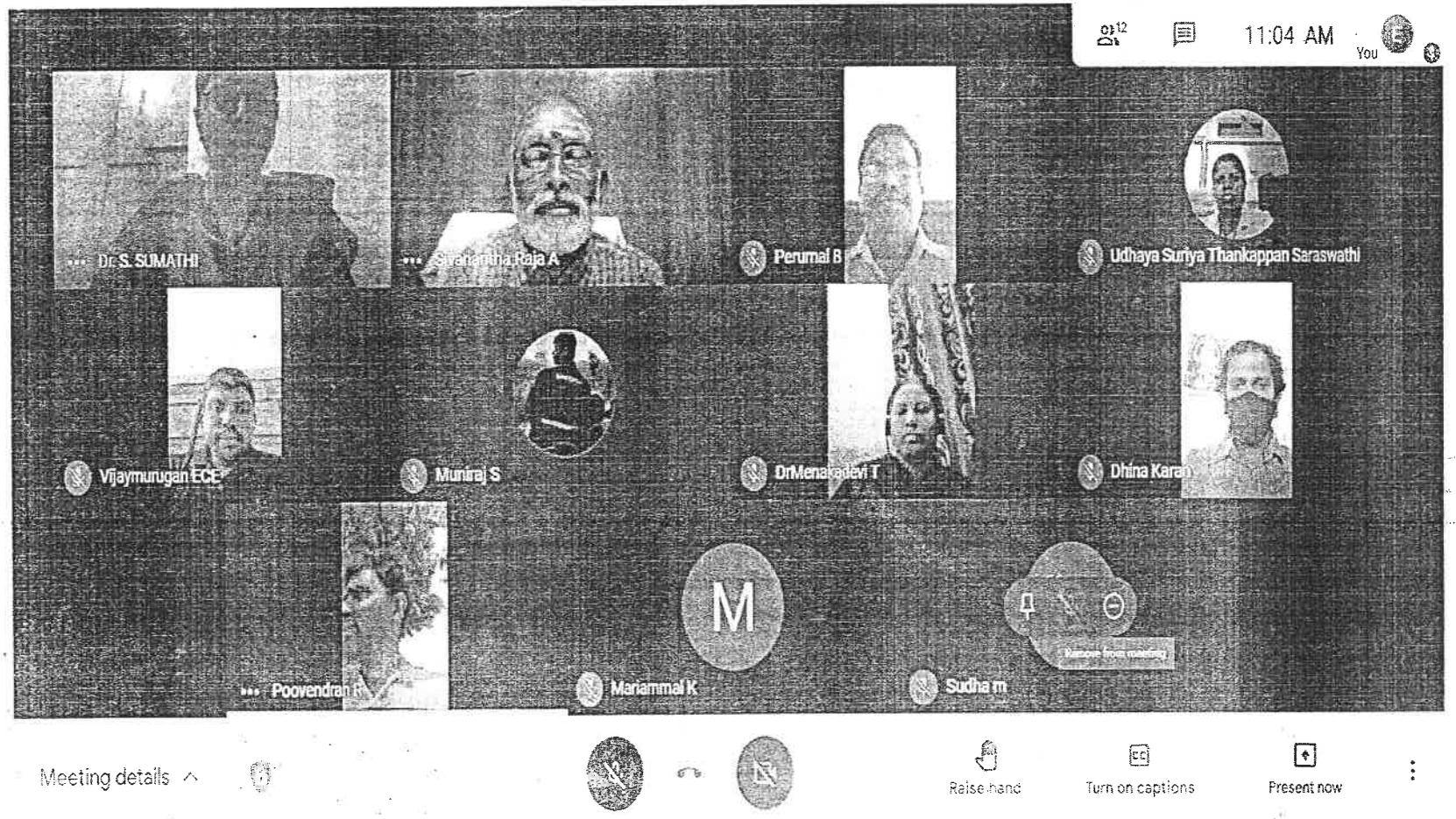
			• Audio compression • Image compression • Video compression
VII	718ECE04	Nano Technology	**Newly Introduced Course.** The unit modules are as follows: • Introduction • Diversity in nano systems • Metal nano particles and nano shells • Evolving interfaces in nano • Society and nano technology
VII	718ECE06	Optical Networks	**Newly Introduced Course.** The unit modules are as follows: • Introduction to optical networks and components • Single and multi-hop networks • Optical switching • Optical access networks & metro networks • Routing and optical multicasting
VII	718ECE07	Cognitive Radio	**Newly Introduced Course.** The unit modules are as follows. • Introduction to software defined radio • Sdr architecture • Introduction to cognitive radios • Cognitive radio architecture • Next generation wireless networks
VII	718ECE08	Wireless Networks	**The following topics are included in the existing syllabus,** • LTE Network Architecture • OFDM in LTE
VII	718ECE11	Detection and Estimation Theory	**Newly Introduced Course.** The unit modules are as follows: • Hypothesis testing • Signal detection applications • Random parameter estimation • Minimum variance unbiased estimation • Non-random parameter estimation
VII	718ECE12	CMOS Analog IC Design	**Newly Introduced Course.** The unit modules are as follows • Introduction to analog ic design and current mirrors • Amplifiers and feedback • Frequency response of amplifiers and noise

			• Operational amplifier stability and frequency compensation • Switched capacitor circuits and PLLS
Feedback obtained about curriculum and syllabus from stakeholders (Students, Faculty, Employers & Alumni) were also discussed and concluded.			

BOS CHAIRMAN

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING [AUTONOMOUS] , HOSUR-635109
FACULTY OF ELECTRONICS & COMMUNICATION ENGINEERING[UG&PG]
PHOTO OF 24th BoS MEETING ON 27.03.2021 (Online mode)



Date: 27.03.2021

Signature of Chairman –BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING, HOSUR-635 109

(Autonomous)

BOARD OF STUDIES IN ELECTRONICS & COMMUNICATION ENGINEERING

Minutes of the Twenty-Third Meeting

Minutes of the 23rd Meeting of the Board of Studies in Electronics & Communication Engineering held on 07.10.2020 at 11.00 A.M.

MEMBERS PRESENT

1. Dr. S. Sumathi, Chairman
2. Dr. T Menakadevi,Internal Member
3. Prof.M.Sivakumar, Internal Member
4. Prof.Dr.R.Poovendran, Internal Member
5. Prof.Dr.N.Nagaraju, Internal Member
6. Prof.S.Vijay Murugan, Internal Member
7. Dr.T.S.Udhaya Suriya , Interdisciplinary Member, HoD/BME
8. Prof.Dr.A Sivanantha Raja, University Nominee
9. Prof.Dr. K.Mariammal, Academic Council Nominee
10. Prof.Dr. M.Dhinakaran, Academic Council Nominee
11. Smt. Sudha M,Industry Representative
12. Mr. S. Muniraj Sankar, Alumnus Member

23.1 To consider the minutes of the 23rd Board of Studies meeting in Electronics and Communication Engineering held on 22.06.2020.

RESOLVED that the minutes of the 23rd Board of Studies meeting in Electronics and Communication Engineering held on 22.06.2020 have been considered.

23.2 To consider the Syllabi of 8th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015 (CBCS) for the batch of students admitted in 2017– 2018.

RESOLVED that the Syllabi of 8th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015 (CBCS) for the batch of students admitted in 2017– 2018 be approved (Annexure I)

23.3 To consider the Syllabi of 7th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2017 – 2018.

RESOLVED that the Syllabi of 7th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2017 – 2018 be approved (Annexure II)

23.4 To consider the Syllabi of 6th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2018 – 2019.

RESOLVED that the Syllabi of 6th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2018 – 2019 be approved (Annexure III)

23.5 To consider the Syllabi of 5th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2018 – 2019.

RESOLVED that the Syllabi of 5th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2018 – 2019 be approved (Annexure IV)

23.6 To consider the Syllabi of "Microprocessors and Microcontrollers with Applications" and "Microprocessors and Microcontrollers Laboratory" for 5th Semester B.E. (Computer Science and Engineering/Information Technology) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2018 –2019.

RESOLVED that the Syllabi of "Microprocessors and Microcontrollers with Applications" and "Microprocessors and Microcontrollers Laboratory" for 5th Semester B.E. (Computer Science and Engineering/Information Technology) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2018 –2019 be approved (Annexure V)

23.7 To consider the Syllabi of 4th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019 – 2020.

RESOLVED that the Syllabi of 4th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019 – 2020 be approved (Annexure VI)

23.8 To consider the Syllabi of 3rd Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019 – 2020.

RESOLVED that the Syllabi of 3rd Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019 – 2020 be approved (Annexure VII)

23.9 To consider the Syllabi of "Digital Electronics" and "Digital Electronics Laboratory" for 3rd Semester B.E. (Computer Science and Engineering/Information Technology) programme under the Regulation 2018 (CBCS) for the batch of students admitted in 2019 – 2020.

RESOLVED that consider the Syllabi of "Digital Electronics" and "Digital Electronics Laboratory" for 3rd Semester B.E. (Computer Science and Engineering/Information

Technology) programme under the Regulation 2018 (CBCS) for the batch of students admitted in 2019 – 2020 be approved (Annexure VIII)

23.10 To consider the Syllabus of "Communication Engineering" for 3rd Semester B.Tech. (Information Technology) programme under the Regulation 2018 (CBCS) for the batch of students admitted in 2019 – 2020.

RESOLVED the Syllabus of "Communication Engineering" for 3rd Semester B.Tech. (Information Technology) programme under the Regulation 2018 (CBCS) for the batch of students admitted in 2019 – 2020 be approved. (Annexure IX)

23.11 To consider the Syllabi of "Electric Circuits and Electron Devices" and "Circuits and Devices Laboratory" for 2nd Semester B.E (Electronics & Communication Engineering programme) under the Regulations 2018 (CBCS) for the batch of students to be admitted in 2020 – 2021.

RESOLVED the Syllabi of "Electric Circuits and Electron Devices" and "Circuits and Devices Laboratory" for 2nd Semester B.E (Electronics & Communication Engineering programme) under the Regulations 2018 (CBCS) for the batch of students to be admitted in 2020 – 2021 be approved. (Annexure X)

23.12 To consider the Syllabi of 4th Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019-2020.

RESOLVED that the Syllabi of 4th Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019-2020 be approved (Annexure XI)

23.13 To consider the Syllabi of 4th Semester M.E. (VLSI Design) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019-2020.

RESOLVED that the Syllabi of 4th Semester M.E. (VLSI Design) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019-2020 be approved (Annexure XII)

23.14 To consider the Syllabi of 3rd Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019-2020.

RESOLVED that the Syllabi of 3rd Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019-2020 be approved (Annexure XIII)

23.15 To consider the Syllabi of 3rd Semester M.E. (VLSI Design) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019-2020.

RESOLVED that the Syllabi of 3rd Semester M.E. (VLSI Design) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2019-2020 be approved (Annexure XIV)

23.16 To consider the Syllabi of 2nd Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2020-2021.

RESOLVED that the Syllabi of 2nd Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2020-2021 be approved (Annexure XV)

23.17 To consider the Syllabi of 1st Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students to be admitted in 2020-2021.

RESOLVED that the Syllabi of 1st Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students to be admitted in 2020-2021 be approved (Annexure XVI)

23.18 To consider the Subjects for course work of Ph.D programme in the Department of Electronics and Communication Engineering.

RESOLVED the Subjects for course work of Ph.D programme in the Department of Electronics and Communication Engineering be approved. (Annexure XVII)

23.19 To consider the list of Examiners for the conduction of examinations (Practical & Theory) for the academic year 2020-2021.

RESOLVED that the list of Examiners for the conduction of examinations (Practical & Theory) for the academic year 2020-2021 be approved. (Annexure XVIII)

Date: 07.10.2020

Signature of Chairman –BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS), HOSUR-635 109
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Members Present for the Twenty third Board of Studies Meeting held on 07.10.2020

Sl.No.	Name & Address of the Members	Category	Signature
1	Dr. S. Sumathi, Ph.D (VLSI)., Prof & Head, Dept. of ECE, ACE, Hosur.	BoS-Chairman	
2	Dr. T.Menakadevi.,M.Tech (VLSI),Ph.D., Professor, Dept. of ECE, ACE, Hosur.	Internal Member	
3	Mr.M.Sivakumar,M.E(Communication Systems)., AP, Dept. of ECE, ACE, Hosur.	Internal Member	
4	Dr.R.Poovendran.,M.E.,(VLSI Design) AP, Dept. of ECE, ACE, Hosur.	Internal Member	
5	Prof.Dr. N.Nagaraju., Ph.D., Asst. Professor, Dept.of ECE, ACE,Hosur	Internal Member	
6	Prof.S.Vijay Murugan ,M.E., Asso.Professor , Dept. of ECE , ACE, Hosur.	Internal Member	
7	Dr.T.S.Udhaya Suriya Professor & Head Department of BME, ACE, Hosur.	Interdisciplinary Member	
8	Prof.Dr.A Sivanantha Raja.,Ph.D Professor & Head ,Dept. of ECE, Alagappa Chettiar Government College of Engineering and Technology,Karaikudi	University Nominee	Online mode
9	Prof.Dr. K.Mariammal., Ph.D., Assistant Professor (Sr Gr), Department of Electronics Engineering, Madras Institute of Technology Anna University, Chennai.	Academic Council Nominee	Online mode
10	Prof.Dr. M.Dhinakaran.,Ph.D., Assistant Professor, Dept. of ECE, Government College of Engineering, Salem	Academic Council Nominee	Online mode
11	Smt. Sudha M Larsen and Toubro (L & T) Defence, Bangalore ,	Industry Representative	Online mode
12	Mr. S. Muniraj Sankar Senior Specialist , HCL Technologies Ltd ,Chennai	Alumnus Member	Online mode

Date: 07.10.2020

Signature of the Chairman-BoS
Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

Department of ECE- 23rd BOS Recommendations

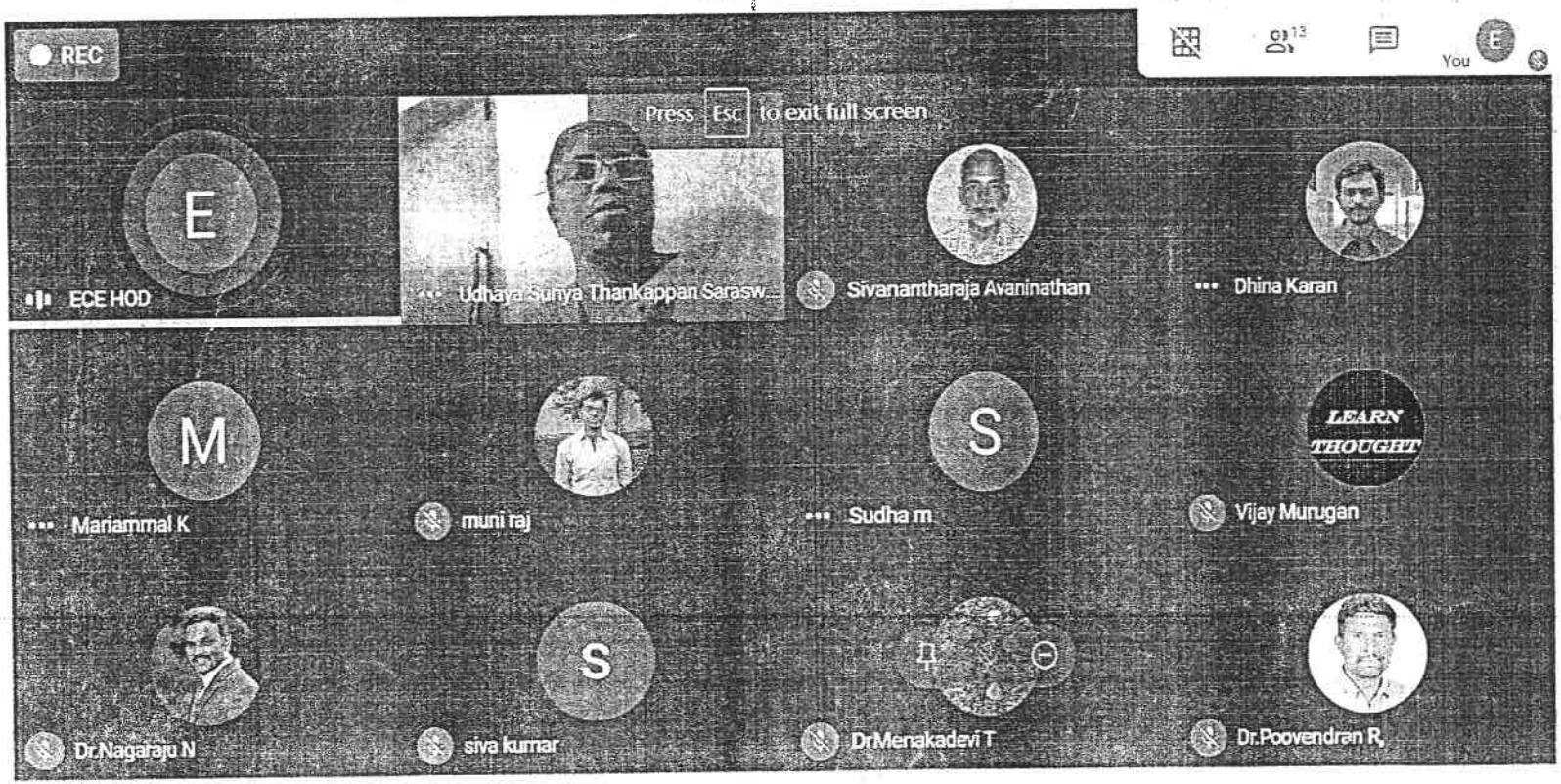
Sem	Course Code	Course Name	Remarks (New course Introduced/ Contents incorporated in the corresponding course)
VI	618ECT02	VLSI Design	The following topics are included in the existing syllabus, i) Noise Margin, Rise time and Fall time. (Unit-2) ii) Adhoc testing, Scan Design, BIST, IDDQ testing(unit-4) iii) The following topics are removed in the existing syllabus, iv) Large FETs(unit-3)
VI	618ECT03	Cellular and Mobile Communication	The following topics are included in the existing syllabus, i) MIMO systems(unit-3) ii) 4G Technologies: LTE (unit-5) iii) The following topics are in the existing syllabus, iv) Basic combining methods(unit-3) v) AMPS (unit-5)
VI	618ECE01	Digital Image Processing	The following topics are included in the existing syllabus, i) Relationship between pixels(unit-1) ii) Morphological processing - dilation - erosion(unit-4) iii) Huffman coding (unit-5) The following topics are removed in the existing syllabus, i) Geometric transformations: spatial transformations- Gray- Level interpolation. (Unit-3)
VI	618ECE02	Robotics Engineering	**Newly Introduced Course.** The unit modules are as follows: • Introduction • Elements of robots-joints, links, actuators and sensors • End effectors and robot controls • Robot cell design and applications • Micro/Nano Robotics System
VI	618ECE03	Digital System Design using VHDL	The following topics are included in theexisting syllabus i) Logic block, routing architecture and constraints(unit-1) Binary Multiplier, Dice game(unit-2)
VI	618ECE04	Information Theory Coding	The following topics are included in the existing syllabus, i) Image and Video Formats(unit-3) Text books reference is changed
VI	618ECE05	Soft Computing and Applications	**Newly Introduced Course.** The unit modules are as follows: • Introduction To Soft Computing And Neural Networks • Genetic Algorithms

			• Neural Networks • Fuzzy Logic • Neuro-Fuzzy Modeling
VI	618ECE06	Speech Processing	**Newly Introduced Course.** The unit modules are as follows: • Nature Of Speech Signal • Time Domain Methods For Speech Processing • Frequency Domain Methods For Speech Processing • Linear Predictive Coding Of Speech • Homomorphic Speech Analysis
VI	618ECP08	**VLSI Design Laboratory**	• INNOVATIVE PROJECTS: • Design and implementation of a traffic light controller using VHDL, • DC motor interfacing, • LED interfacing, • Design a simulation of finite state machine(fsm) using VHDL, • Design a simulation of simple ALU USING VHDL.
VI	618ECP07	**Analog and Digital Communication Systems Laboratory**	• INNOVATIVE PROJECTS: • Communication System Design using MATLAB (Signal Generation and Interpretation), • Pulse Code Modulation using MATLAB, • Design Amplitude and Frequency modulation using SIMULINK, • Design Delta Modulation using SIMULINK, • Design Shift keying Techniques using MATLAB
Feedback obtained about curriculum and syllabus from stakeholders (Students, Faculty, Employers & Alumni) were also discussed and concluded.			

BOS CHAIRMAN

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING [AUTONOMOUS] , HOSUR-635109
FACULTY OF ELECTRONICS & COMMUNICATION ENGINEERING[UG&PG]
PHOTO OF 23rd BoS MEETING ON 07.10.2020 (Online mode)



Date: 07.10.2020

Signature of Chairman –BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engg.
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING, HOSUR-635 109

(Autonomous)

BOARD OF STUDIES IN ELECTRONICS & COMMUNICATION ENGINEERING

Minutes of the Twenty-second Meeting

Minutes of the 22nd Meeting of the Board of Studies in Electronics & Communication Engineering held on 02.11.2019 at 10.30 A.M.

MEMBERS PRESENT

1. Dr. S. Sumathi, Chairman
2. Dr. K.A.Dattatreya, Internal Member
3. Dr. T Menakadevi,Internal Member
4. Prof.M.Sivakumar, Internal Member
5. Prof.R.Poovendran, Internal Member
6. Dr.T.S.Udhaya Suriya , Interdisciplinary Member, HoD/BME
7. Prof.Dr.Narayanappa, Interdisciplinary Member, HoD/EEE
8. Prof.Dr.N.Ramadass, Special Invitee
9. Prof.Dr.D.Seshachalam, Academic Council Nominee
10. Prof.Dr.G.Kavitha, Academic Council Nominee
11. Smt.N.Dhivya,Industry Representative
12. Shri.R.Chandrashekar, Alumnus Member

22.1 To consider the minutes of the 21st Board of Studies meeting in Electronics and Communication Engineering held on 27.04.2019.

RESOLVED that the minutes of the 21st Board of Studies meeting in Electronics and Communication Engineering held on 27.04.2019 have been considered.

22.2 To consider the Syllabi of 8th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015 (CBCS) for the batch of students admitted in 2016 – 2017.

RESOLVED that the Syllabi of 8th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015 (CBCS) for the batch of students admitted in 2016 – 2017 be approved (Annexure I)

22.3 To consider the Syllabi of 6th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015 (CBCS) for the batch of students admitted in 2017 – 2018.

RESOLVED that the Syllabi of 6th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015 (CBCS) for the batch of students admitted in 2017 – 2018 be approved (Annexure II)

22.10 To consider the Subjects for course work of Ph.D programme in the Department of Electronics and Communication Engineering.

RESOLVED the Subjects for course work of Ph.D programme in the Department of Electronics and Communication Engineering be approved. (Annexure IX)

22.11 To consider the list of Examiners for the conduction of examinations (Practical & Theory) for the academic year 2019-2020.

RESOLVED that the list of Examiners for the conduction of examinations (Practical & Theory) for the academic year 2019-2020 be approved. (Annexure X)

Date: 02.11.2019

Signature of Chairman –BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109,
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS), HOSUR-635 109
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Members Present for the Twenty second Board of Studies Meeting held on 02.11.2019

Sl.No.	Name & Address of the Members	Category	Signature
1	Dr. S. Sumathi, Ph.D (VLSI)., Prof & Head, Dept. of ECE, ACE, Hosur.	BoS-Chairman	
2	Dr. K.A.Dattatreya, M.E (Electronics), MBA, Ph.D Professor, Dept. of ECE, ACE, Hosur.	Internal Member	
3	Dr. T.Menakadevi.,M.Tech (VLSI),Ph.D., Professor, Dept. of ECE, ACE, Hosur.	Internal Member	
4	Mr.M.Sivakumar,M.E(Communication Systems)., AP, Dept. of ECE, ACE, Hosur.	Internal Member	
5	Mr.R.Poovendran.,M.E.,(VLSI Design) AP, Dept. of ECE, ACE, Hosur.	Internal Member	
6	Dr.T.S.Udhaya Suriya Professor & Head Department of BME, ACE, Hosur.	Interdisciplinary Member	
7	Dr.Narayanappa, M.E., Ph.D., Professor & Head, Department of EEE, ACE, Hosur.	Interdisciplinary Member	
8	Prof.Dr.N.Ramadass, M.E., Ph.D.,(Communication Systems) Professor/Department of ECE, CEG Campus,Anna University, Chennai.	Special Invitee	
9	Prof.Dr. D. Seshachalam(Embedded systems) Prof & Head/Dept. of ECE BMS college of Engineering, Bangalore.	Academic Council Nominee	
10	Prof.Dr.G.Kavithaa(Communication systems) Assistant Professor/ Dept. of ECE, Government College of Engineering, Salem.	Academic Council Nominee	
11	Smt.N.Dhivya,(Electronics) Technical Lead,HCL technologies, Jigani, Bangalore.	Industry Representative	
12	Shri..R.Chandrashekar, HR,QAD Department TVS- Hosur	Alumnus Member	

Date: 02.11.2019

Signature of the Chairman-BoS
Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

Department of ECE- 22st BOS Recommendations

Sem	Course Code	Course Name	Remarks (New course Introduced/ Contents incorporated in the corresponding course)
IV	418ECT03	Linear Integrated Circuits	The following topics are included in the existing syllabus, i) Astable and Mono stable Multivibrator using 555 NE Timer
IV	418ECT04	Analog Electronics -II	The following topics are included in the existing syllabus, i) Analysis of voltage series and current series Practical feedback amplifiers circuits. ii) Analysis of single tuned amplifier and its bandwidth–Analysis of double tuned amplifier and its bandwidth
IV	418ECP08	Linear Integrated Circuit Laboratory	The following Innovative Projects are included in the existing syllabus, i) Automatic Street Light using 555 Timer, Rainfall Detector Alarm using 555 Timer & Rain Sensor, Automatic LED Blinking Circuit using 555 Timer IC – LED Flasher, Automatic Predefined Time Lamp Turn On Project
IV	418ECP09	Analog Electronics-II Laboratory	The following Innovative Projects are included in the existing syllabus, i) Water level alarm,USB mobile charger circuit,Bike turning signal circuit, 555 timer IC testing circuit,Dancing bike colour LED light circuit
IV	418ECE02	Consumer Electronics	The following topics are included in the existing syllabus, i) Home Audio systems
IV	418ECE05	PCB Design	The following topics are included in the existing syllabus, i) 3-D printing, Laser printing
Feedback obtained about curriculum and syllabus from stakeholders (Students, Faculty, Employers, Alumni) were also discussed and concluded.			

BOS CHAIRMAN

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING [AUTONOMOUS] , HOSUR-635109
FACULTY OF ELECTRONICS & COMMUNICATION ENGINEERING[UG&PG]
PHOTO OF 22nd BoS MEETING ON 02.11.2019

Clockwise:

Prof.M.Sivakumar , Dr.T.S.Udhaya Suriya, Dr.T.Menakadevi , Shri.R.Chandrashekar , Smt.N.Dhivya, Dr.S.Sumathi ,Prof.Dr.N.Ramadass , Dr.G.Kavithaa, Dr. K.A.Dattatreya, Dr.Narayanappa , Prof.R.Poovendran

ADHIYAMAAN COLLEGE OF ENGINEERING, HOSUR-635 109

(Autonomous)

BOARD OF STUDIES IN ELECTRONICS & COMMUNICATION ENGINEERING

Minutes of the Twenty-first Meeting

Minutes of the 21st Meeting of the Board of Studies in Electronics & Communication Engineering held on 27.04.2019 at 10.00 A.M.

MEMBERS PRESENT

1. Dr.S.Sumathi, Chairman
2. Dr.K.A.Dattatreya, Internal Member
3. Dr.T Menakadevi,Internal Member
4. Prof.M.Sivakumar, Internal Member
5. Prof.R.Poovendran, Internal Member
6. Dr.T.S.Udhaya Suriya , Interdisciplinary Member,HoD/BME
7. Prof.Dr.S.Jayakumar, Interdisciplinary Member,Asst.Prof/CHEM. ENGG.
8. Prof.Dr.N.Ramadass,University Nominee
9. Prof.Dr.G.Kavitha, Academic Council Nominee
10. Smt.N.Dhivya,Industry Representative
11. Shri.R.Chandrashekar, Alumnus Member

21.1 To consider the minutes of the 20th Board of Studies meeting in Electronics and Communication Engineering held on 27.10.2018.

RESOLVED that the minutes of the 20th Board of Studies meeting in Electronics and Communication Engineering held on 27.10.2018have been considered.

21.2 To consider the Syllabi of 7th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015 (CBCS) for the batch of students admitted in 2016 – 2017.

RESOLVED that the Syllabi of 7th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015 (CBCS) for the batch of students admitted in 2016 – 2017 be approved (Annexure I)

21.3 To consider the Syllabi of 5th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2017 – 2018.

RESOLVED that the Syllabi of 5th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2017 – 2018 be approved (Annexure II)

21.9 To consider the Syllabi of 3rd Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2018-2019.

RESOLVED the Syllabi of 3rd Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2018-2019 be approved (Annexure VIII)

21.10 To consider the Syllabi of 3rd Semester M.E. (VLSI Design) programme under the Regulations 2018(CBCS) for the batch of students admitted in 2018-2019.

RESOLVED that the Syllabi of 3rd Semester M.E. (VLSI Design) programme under the Regulations 2018(CBCS) for the batch of students admitted in 2018-2019 be approved (Annexure IX)

21.11 To consider the Syllabi of 1st Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students to be admitted in 2019-2020.

RESOLVED the Syllabi of 1st Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students to be admitted in 2019-2020 be approved. (Annexure X)

21.12 To consider the Syllabi of 1st Semester M.E. (VLSI Design) programme under the Regulations 2018(CBCS) for the batch of students to be admitted in 2019-2020 .

RESOLVED that the Syllabi of 1st Semester M.E. (VLSI Design) programme under the Regulations 2018(CBCS) for the batch of students to be admitted in 2019-2020 be approved. (Annexure XI)

21.13 To consider the list of examiners for the conduction of examinations (Practical & Theory) for the academic year 2019-2020.

RESOLVED that the list of examiners for the conduction of examinations (Practical & Theory) for the academic year 2019-2020 be approved (Annexure XII)

Date: 27.04.2019

Signature of Chairman –BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG / PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS), HOSUR-635 109
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Members Present for the Twenty-first Board of Studies Meeting held on 27.04.2019

Sl.No.	Name & Address of the Members	Category	Signature
1	Dr. S. Sumathi, Ph.D (VLSI)., Prof & Head, Dept. of ECE, ACE, Hosur.	BoS-Chairman	
2	Dr. K.A.Dattatreya, M.E (Electronics), MBA, Ph.D Professor, Dept. of ECE, ACE, Hosur.	Internal Member	
3	Dr. T.Menakadevi.,M.Tech (VLSI),Ph.D., Professor, Dept. of ECE, ACE, Hosur.	Internal Member	
4	Mr.M.Sivakumar,M.E(Communication Systems)., AP, Dept. of ECE, ACE, Hosur.	Internal Member	
5	Mr.R.Poovendran.,M.E.,(VLSI Design) AP, Dept. of ECE, ACE, Hosur.	Internal Member	
6	Dr.T.S.Udhaya Suriya Professor & Head Department of BME, ACE, Hosur.	Interdisciplinary Member	
7	Dr.S.Jayakumar, M.E., Ph.D., (Applied Electronics) Assistant Professor/Dept. of Chemical Engineering, Adhiyamaan College of Engineering, Hosur.	Interdisciplinary Member	
8	Prof.Dr.N.Ramadass, M.E., Ph.D.,(Communication Systems) Associate Professor/Department of ECE, CEG Campus,Anna University, Chennai.	University Nominee	
9	Prof.Dr. D. Seshachalam(Embedded systems) Prof & Head/Dept. of ECE BMS college of Engineering, Bangalore.	Academic Council Nominee	AB
10	Prof.Dr.G.Kavitha(Communication systems) Assistant Professor/ Dept. of ECE, Government College of Engineering, Salem.	Academic Council Nominee	
11	Smt.N.Dhivya,(Electronics) Technical Lead,HCL technologies, Jigani, Bangalore.	Industry Representative	N. Dhivya 27/4/19
12	Shri.R.Chandrashekar, HR,QAD Department TVS- Hosur	Alumnus Member	

Date: 27.04.2019

Signature of the Chairman-BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

Department of ECE- 21st BOS Recommendations

Sem	Course Code	Course Name	Remarks (New course Introduced/ Contents incorporated in the corresponding course)
III	318ECT04	Analog Electronics - I	Topics newly added: • Diode Compensation for Instability- Thermistor Compensation
III	318ECP08	Analog Electronics –I Laboratory	Experiment newly added: Design of voltage regulator using BJT
III	318ECP09	Digital Electronics Laboratory	Experiment newly added: i) Study of RAM as a storage device ii) Implementation of Ring counter and Johnson counter using MSI devices Experiment removed: Design of Adder, Subtractor, Multiplexer, Ripple counter and Shift register using VHDL
M.E- COMMUNICATION SYSTEMS			
III	318COE09	Electromagnetic Interference and Compatibility in System Design	**The following unit modulesare included:** **Unit-3 EMI/EMC STANDARDS AND MEASUREMENTS** Civilian standards - FCC,CISPR,IEC,EN, Military standards - MIL STD 461D/462, EMI Test Instruments /Systems, EMI Shielded Chamber, Open Area Test Site, TEM Cell, Sensors/Injectors/Couplers, Test beds for ESD and EFT, Military Test Method and Procedures (462) **Unit- 5** PCB Traces Cross Talk, Impedance Control, Power Distribution Decoupling, Zoning, Motherboard Designs and Propagation Delay Performance Models. **The following unit modulesare removed:** **Unit -3EMC DESIGN OF PCBS** Component selection and mounting; PCB trace impedance; Routing; Cross talk control; Power distribution decoupling; Zoning; Grounding; VIAs connection; Terminations. **Unit- 5 EMI MEASUREMENTS AND STANDARDS** Open area test site; TEM cell; EMI test shielded chamber and shielded ferrjite lined anechoic chamber; Tx /Rx Antennas, Sensors, Injectors / Couplers, and coupling factors; EMI Rx and spectrum analyzer; Civilian standards-CISPR, FCC, IEC, EN; Military standards-MIL461E/462.
Feedback obtained about curriculum and syllabus from stakeholders (Students, Faculty, Employers & Alumni) were also discussed and concluded.			

BOS CHAIRMAN

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING [AUTONOMOUS] , HOSUR-635109
FACULTY OF ELECTRONICS & COMMUNICATION ENGINEERING[UG&PG]
PHOTO OF 21st BoS MEETING ON 27.04.2019

Clockwise:
Prof.R.Poovendran ,Prof.M.Sivakumar , Dr.T.S.Udhaya Suriya, Prof.Dr.N.Ramadass , Dr.S.Sumathi, Shri.R.Chandrashekar, Dr. K.A.Dattatreya, Dr.S.Jayakumar , Dr.T.Menakadevi.

ADHIYAMAAN COLLEGE OF ENGINEERING, HOSUR-635 109
(Autonomous)
BOARD OF STUDIES IN ELECTRONICS & COMMUNICATION ENGINEERING

Minutes of the Twentieth Meeting

Minutes of the 20th Meeting of the Board of Studies in Electronics & Communication Engineering held on 27.10.2018 at 10.00 A.M.

MEMBERS PRESENT

1. Dr. S. Sumathi, Chairman
2. Dr. K.A.Dattatreya, Internal Member
3. Dr. T Menakadevi,Internal Member
4. Prof.M.Sivakumar, Internal Member
5. Prof.R.Poovendran, Internal Member
6. Dr.T.S.Udhaya Suriya , Interdisciplinary Member,HoD/BME
7. Prof.Dr.S.Jayakumar, Interdisciplinary Member,Asst.Prof/B.Tech CHEM
8. Prof.Dr.N.Ramadass,University Nominee
9. Prof.Dr. D. Seshachalam, Academic Council Nominee
10. Prof.Dr.G.Kavitha, Academic Council Nominee
11. Smt.N.Dhivya,Industry Representative
12. Shri..R.Chandrashekar, Alumnus Member

20.1 To consider the minutes of the 19th Board of Studies meeting in Electronics and Communication Engineering held on 21.04.2018.

RESOLVED that the minutes of the 19th Board of Studies meeting in Electronics and Communication Engineering held on 21.04.2018 have been considered.

20.2 To consider the Syllabi of 8th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015 for the batch of students admitted in 2015 – 2016.

RESOLVED that the Syllabi of 8th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015 for the batch of students admitted in 2015 – 2016 be approved (Annexure I)

20.9 To consider the Syllabi of 2nd Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2018-2019.

RESOLVED that the Syllabi of 2nd Semester M.E. (Communication Systems) programme under the Regulations 2018 (CBCS) for the batch of students admitted in 2018-2019 be approved (Annexure VIII)

20.10 To consider the Syllabi of 2nd Semester M.E. (VLSI Design) programme under the Regulations 2018(CBCS) for the batch of students admitted in 2018-2019.

RESOLVED the Syllabi of 2nd Semester M.E. (VLSI Design) programme under the Regulations 2018(CBCS) for the batch of students admitted in 2018-2019 be approved. (Annexure IX)

20.11 To consider the resolution pertaining to regulation -2018(CBCS).

a) IA (Internal assessment) & EA (External Assessment) marks ratio.
b) Continuous assessment (IA) Marks Allocation.
c) End Assessment Question Paper Pattern.
d) One Credit Courses over and above the total credits to be earned.

RESOLVED that the resolution pertaining to regulation -2018(CBCS).

a) IA (Internal assessment) & EA (External Assessment) marks ratio.
b) Continuous assessment (IA) Marks Allocation.
c) End Assessment Question Paper Pattern.
d) One Credit Courses over and above the total credits to be earned.

be approved. (Annexure X)

20.12 To consider the Subjects for course work of Ph.D programme in the Department of Electronics and Communication Engineering.

RESOLVED that the Subjects for course work of Ph.D programme in the Department of Electronics and Communication Engineering. be approved (Annexure XI)

Date: 27.10.2018

Signature of Chairman –BoS
Chairman, Board of [illegible]
Faculty of Electronics and Communication [illegible]
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS), HOSUR-635 109
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Members Present for the Twentieth Board of Studies Meeting held on 27.10.2018

Sl.No.	Name & Address of the Members	Category	Signature
1	Dr. S. Sumathi, Ph.D (VLSI)., Prof & Head, Dept. of ECE, ACE, Hosur.	BoS-Chairman	
2	Dr. K.A.Dattatreya, M.E (Electronics), MBA, Ph.D Professor, Dept. of ECE, ACE, Hosur.	Internal Member	
3	Dr. T.Menakadevi.,M.Tech (VLSI),Ph.D., Professor, Dept. of ECE, ACE, Hosur.	Internal Member	
4	Mr.M.Sivakumar,M.E(Communication Systems)., AP, Dept. of ECE, ACE, Hosur.	Internal Member	
5	Mr.R.Poovendran.,M.E.,(VLSI Design) AP, Dept. of ECE, ACE, Hosur.	Internal Member	
6	Dr.T.S.Udhaya Suriya Professor & Head Department of BME, ACE, Hosur.	Interdisciplinary Member	
7	Dr.S.Jayakumar, M.E., Ph.D., (Applied Electronics) Assistant Professor/Dept. of Chemical Engineering, Adhiyamaan College of Engineering, Hosur.	Interdisciplinary Member	
8	Prof.Dr.N.Ramadass, M.E., Ph.D.,(Communication Systems) Associate Professor/Department of ECE, CEG Campus,Anna University, Chennai.	University Nominee	
9	Prof.Dr. D. Seshachalam(Embedded systems) Prof & Head/Dept. of ECE BMS college of Engineering, Bangalore.	Academic Council Nominee	-AB-
10	Prof.Dr.G.Kavitha(Communication systems) Assistant Professor/ Dept. of ECE, Government College of Engineering, Salem.	Academic Council Nominee	
11	Smt.N.Dhivya,(Electronics) Technical Lead,HCL technologies, Gigeni, Bangalore.	Industry Representative	
12	Shri..R.Chandrashekar, HR,QAD Department TVS- Hosur	Alumnus Member	

Date: 27.10.2018

Signature of the Chairman-BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

Sem	Course Code	Name of the course	Remarks (New course Introduced/contents incorporated in the corresponding course)
VIII	815ECE05	Statistical Signal Processing	**Newly Introduced Course.** The unit modules are as follows: • Introduction to random signal processing • Spectral Estimation • Linear Estimation and Prediction • Adaptive Filters • Application Overview-speech Processing
VIII	815ECE07	Wavelets and its applications	**Newly Introduced Course.** The unit modules are as follows: • Fundamentals • Multi Resolution Analysis • Continuous Wavelet Transforms • Discrete Wavelet Transform • Applications
VIII	815ECE08	ASIC Design	**Newly Introduced Course.** The unit modules are as follows: • Introduction to ASIC, CMOS Logic and ASIC Library • Programmable ASICS, Programmable ASIC Logic Cells and Programmable ASIC I/O Cells • Programmable ASIC Architecture • Logic Synthesis, Simulation and Testing • ASIC Construction, floor planning, placement and routing .
VIII	815ECE09	Satellite Communication	**Newly Introduced Course.**
VIII	815ECE11	Low Power VLSI Design	**Newly Introduced Course.** The unit modules are as follows: • Power Dissipation in CMOS Circuits • Power Optimization • Design of Low Power Circuits • Power Estimation • Synthesis and Software Design
M.E – VLSI DESIGN			
II	218VLT02	Testing of VLSI circuits	**The following unit module is included:** • **TEST GENERATION (Unit-2)** Faults in Digital circuits-failures and faults. Algorithms and Representations - Redundancy Identification (RID) - Test generation for combinational logic circuits-combinational ATPG-Boolean Difference Method-D-

			Algorithm-PODEM - FAN Algorithm **The following unit module is removed:** • **TEST GENERATION FOR COMBINATIONAL AND SEQUENTIAL CIRCUITS** Test generation for combinational logic circuits - Testable combinational logic circuit design - Test generation for sequential circuits - design of testable sequential circuits.
Feedback obtained about curriculum and syllabus from stakeholders (Students, Faculty, Employers & Alumni) were also discussed and concluded.			

BOS CHAIRMAN

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING [AUTONOMOUS] , HOSUR-635109
FACULTY OF ELECTRONICS & COMMUNICATION ENGINEERING[UG&PG]
PHOTO OF 20th BoS MEETING ON 27.10.2018

Clockwise:
Prof.M.Sivakumar , Dr.T.Menakadevi, Dr.T.S.Udhaya Suriya, Prof.Dr.N.Ramadass , Dr.S.Sumathi, Prof.Dr.G.Kavitha , Smt.N.Dhivya , Dr.S.Jayakumar , Mr.R.Poovendran.

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING(AUTONOMOUS), HOSUR-635 109
BOARD OF STUDIES IN ELECTRONICS & COMMUNICATION ENGINEERING

Minutes of the nineteenth Meeting

Minutes of the 19th Meeting of the Board of Studies in Electronics & Communication Engineering held on 21.04.2018 at 10.00 A.M.

MEMBERS PRESENT

1. Dr. S. Sumathi, Chairman
2. Dr. K.A.Dattatreya, Internal Member
3. Dr. T Menakadevi,Internal Member
4. Prof.M.Sivakumar, Internal Member
5. Prof.S.Chidambaram, Internal Member
6. Dr.E.Saravanakumar, , Interdisciplinary Member
7. Dr.T.S.Udhaya Suriya , Interdisciplinary Member,HoD/BME
8. Dr.L.Ganesan ,University Nominee
9. Dr.G.Geetha, Academic Council Nominee
10. Dr.K.J.Shanthi, Academic Council Nominee
11. Shri.J.Ravi Kumar ,Industry Representative
12. Shri.N.Thandayuthapani , Alumnus Member

19.1 To consider the minutes of the Eighteenth Board of Studies meeting in Electronics and Communication Engineering held on 28.10.2017.

RESOLVED that the minutes of the Eighteenth Board of Studies meeting in Electronics and Communication Engineering held on 28.10.2017 have been considered.

19.2 To consider the Syllabi of 7th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015 for the batch of students admitted in 2015 – 2016.

RESOLVED that the Syllabi of 7th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015 for the batch of students admitted in 2015 – 2016 be approved (Annexure I)

19.3 To consider the Syllabi of 5th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2016 – 2017.

RESOLVED that To consider the Syllabi of 5th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2016 – 2017 be approved (Annexure II)

19.4 To consider the Syllabi of "Microprocessors and Microcontrollers with Applications"an "Microprocessors and Microcontrollers Laboratory" for 5th Semester B.E.(Comput Science and Engineering) programme under the Regulations 2015(CBCS) for the batch students admitted in 2016 – 2017.

RESOLVED the Syllabi of "Microprocessors and Microcontrollers with Application and "Microprocessors and Microcontrollers Laboratory" for 5th Semester B.E.(Comput Science and Engineering) programme under the Regulations 2015(CBCS) for the batch students admitted in 2016 – 2017 be approved.(Annexure III)

19.5 To consider the Syllabi of "Communication Engineering", "Embedded System Design and "Advanced Microprocessor Laboratory" for 5th Semester B.Tech.(Informatio Technology) programme under the Regulations 2015 (CBCS) for the batch of studen admitted in 2016 – 2017.

RESOLVED that the Syllabi of "Communication Engineering", "Embedded Syste Design", and "Advanced Microprocessor Laboratory" for 5th Semest B.Tech.(Information Technology) programme under the Regulations 2015 (CBCS) for t batch of students admitted in 2016 – 2017 be approved.(Annexure IV)

19.6 To consider the Syllabi of 3rd Semester B.E. (Electronics and Communicati Engineering) programme under the Regulations 2015(CBCS) for the batch of stude admitted in 2017– 2018.

RESOLVED that the Syllabi of 3rd Semester B.E. (Electronics and Communicati Engineering) programme under the Regulations 2015(CBCS) for the batch of stude admitted in 2017– 2018 be approved. (Annexure V)

19.7 To consider the Syllabi of "Digital Electronics" and "Digital Electronics Laboratory" 3rd Semester B.E. (Computer Science and Engineering) programme under the Regulati 2015 (CBCS) for the batch of students admitted in 2017 – 2018.

RESOLVED that the Syllabi of "Digital Electronics" and "Digital Electron Laboratory" for 3rd Semester B.E. (Computer Science and Engineering) programme un the Regulation 2015 (CBCS) for the batch of students admitted in 2017 – 2018 approved .(Annexure VI)

19.8 To consider the Syllabi of "Digital Principles and Systems Design" and "Dig Laboratory" for 3rd Semester B.Tech.(Information Technology) programme under Regulations 2015(CBCS) for the batch of students admitted in 2017 – 2018.

RESOLVED that the Syllabi of "Digital Principles and Systems Design" and "Dig Laboratory" for 3rd Semester B.Tech.(Information Technology) programme under Regulations 2015(CBCS) for the batch of students admitted in 2017 – 2018 approved.(Annexure VII)

19.9 To consider the curriculum of B.E Electronics and Communication Engineering under the Regulations 2018 to be followed as per choice based credit systems for the batch of the students to be admitted during 2018-2019.

RESOLVED that the curriculum of B.E Electronics and Communication Engineering under the Regulations 2018 to be followed as per choice based credit systems for the batch of the students to be admitted during 2018-2019 be approved .(Annexure VIII)

19.10 To consider the Syllabi of 3rd Semester M.E (Communication Systems) programme under the Regulations 2015 (CBCS) for the batch of students admitted in 2017-2018.

RESOLVED that the Syllabi of 3rd Semester M.E (Communication Systems) programme under the Regulations 2015 (CBCS) for the batch of students admitted in 2017-2018 be approved .(Annexure IX)

19.11 To consider the Curriculum & Syllabi of 1st Semester M.E. (Communication Systems) programme under the Regulations 2018 for the batch of students to be admitted in 2013-2019.

RESOLVED that the Curriculum & Syllabi of 1st Semester M.E. (Communication Systems) programme under the Regulations 2018 for the batch of students to be admitted in 2018-2019 be approved. (Annexure X)

19.12 To consider the Syllabi of 3rd Semester M.E.(VLSI Design) programme under the Regulations 2015 (CBCS) for the batch of students admitted in 2017-2018.

RESOLVED that the Syllabi of 3rd Semester M.E.(VLSI Design) programme under the Regulations 2015 (CBCS) for the batch of students admitted in 2017-2018 be approved. (Annexure XI)

19.13 To consider the Curriculum & Syllabi of 1st Semester M.E. (VLSI Design) programme under the Regulations 2018 for the batch of students to be admitted in 2018-2019.

RESOLVED that the Curriculum & Syllabi of 1st Semester M.E. (VLSI Design) programme under the Regulations 2018 for the batch of students to be admitted in 2018-2019 be approved. (Annexure XII)

19.14 To consider the Subjects for course work of Ph.D programme in the Department of Electronics and Communication Engineering.

RESOLVED that Subjects for course work of Ph.D programme in the Department of Electronics and Communication Engineering be approved. (Annexure XIII)

Date: 07.04.2018

Signature of Chairman – BoS

Chairman, Board of Studies
Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109

ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS), HOSUR-635 109
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Members Present for the Nineteenth Board of Studies Meeting held on 21.04.2018

Sl.No.	Name & Address of the Members	Category	Signature
1	Dr. S. Sumathi, Ph.D (VLSI)., Prof & Head, Dept. of ECE, ACE, Hosur.	BoS-Chairman	
2	Dr. K.A.Dattatreya, M.E (Electronics), MBA, Ph.D Professor, Dept. of ECE, ACE, Hosur.	Internal Member	
3	Dr. T.Menakadevi.,M.Tech (VLSI),Ph.D., Professor, Dept. of ECE, ACE, Hosur.	Internal Member	
4	Mr.M.Sivakumar, M.E (Communication Systems)., AP, Dept. of ECE, ACE, Hosur.	Internal Member	
5	Mr.S.Chidambaram.,M.E(Power Electronics & Drives) AP, Dept. of ECE, ACE, Hosur.	Internal Member	
6	Dr.T.S.Udhaya Suriya ., M.E.,Ph.D., Professor & Head Department of BME, ACE, Hosur.	Interdisciplinary Member	
7	Dr.E.Saravana kumar.,M.E (Computer Science and Engineering),Ph.D Professor , Dept. of CSE, ACE, Hosur.	Interdisciplinary Member	
8	Prof.Dr.L.Ganesan Prof & Head Department of CSE Alagappa Chettiar College of Engineering and Technology Karaikudi – 630 004.	University Nominee	21.4.18
9	Prof.Dr.G.Geetha Associate Professor Department of ECE CEG Campus Anna University,Chennai-25	Academic Council Nominee	
10	Prof.Dr.K.J.Shanthi Professor & Head Department of Medical Electronics Dr. Ambedkar Institute of Technology Mallathalli, Bangalore – 56	Academic Council Nominee	
11	Shri.J.Ravi Kumar Proprietor Technilab Instrument Bangalore – 560033	Industry Representative	
12	Shri.N.Thandayuthapani Senior Software Engineer Robert-Bosch Engineering Business Solutions Bangalore.	Alumnus Member	

Date: 21.04.2018

Signature of the Chairman-BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engg.
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu

Sem	Course Code	Name of the course	Remarks (New course Introduced/contents incorporated in the corresponding course)
VII	715ECT01	RF System Design	**Newly Introduced Course.** The unit modules are as follows: • RF Issues • RF Filter Design • Active RF Components And Applications • RF Amplifier Designs • Oscillators, mixers & Applications
VII	715ECT02	Optical Communication	The following topics are included in the existing syllabus, • Principles of fiber nonlinearities.
VII	715ECT03	Microwave Engineering	The following topics are included in the existing syllabus, • Microwave T junction: E- Plane Tee, H-Plane Tee, Magic Tee • Tunnel diodes
VII	715ECT04	Embedded Systems	The following topics are included in the existing syllabus, • Distributed Embedded Architecture - Hardware and Software Architectures, Networks for embedded systems- I2C, CAN Bus, SHARC link ports, Ethernet, Internet. Design Example: Elevator Controller. • Data Compressor-Alarm clock-Cell phones-Audio player-Software Modem-Digital still camera-Telephone answering machine-Engine control unit.
VII	715ECE01	Engineering Ethics and Human Values	Newly Introduced course
VII	715ECE03	High Speed Networks	The following topics are included in the existing syllabus, • ATM and MPLS.
VII	715ECE05	Neural Networks and its Applications	The following topics are included in the existing syllabus, • Content Addressable Nature – Binary Hopfield Network

VII	715ECE07	Remote Sensing	Newly Introduced course
VII	715ECE08	Wireless Networks	The existing syllabus has been entirely reframed with the following unit modules • WIRELESS LAN • MOBILE NETWORK LAYER • MOBILE TRANSPORT LAYER • WIRELESS WIDE AREA NETWORK • 4G NETWORKS
VII	715ECE10	Wireless Communication	**Newly Introduced Course.** The unit modules are as follows: • WIRELESS CHANNELS • CELLULAR ARCHITECTURE • DIGITAL SIGNALING FOR FADING CHANNELS • MULTIPATH MITIGATION TECHNIQUES • MULTIPLE ANTENNA TECHNIQUES
VII	715ECE11	Advanced Microcontrollers	**Newly Introduced Course.** The unit modules are as follows: • RISC PROCESSOR • CISC PROCESSORS • MSP4316-BIT MICROCONTROLLER • PROGRAMMING AND PERIPHERALS INTERFACE USING MSP430 FAMILIES • COMMUNICATION INTERFACE USING MSP430 MICROCONTROLLER
VII	715ECP07	Optical and Microwave Laboratory	The following experiments are included in the existing syllabus, • **DC Characteristics of LED and LASER Diode.** • **Analog/Digital transmission through optical fiber link.**

Sem	Course Code	Course Name	Remarks (New course Introduced/ Contents incorporated in the corresponding course)
I	118ESE06	Basic Electrical Electronics and Instrumentation Engineering	**Newly Introduced Course.** The unit modules are as follows: • INTRODUCTION TO BASIC ELECTRICAL ELEMENTS • FUNDAMENTALS OF DC AND AC CIRCUITS • SEMICONDUCTOR DEVICES AND APPLICATIONS • DIGITAL ELECTRONICS • MEASUREMENT SYSTEMS AND TRANSDUCERS
VI	618ECE05	Soft Computing and Applications	**Newly Introduced Course.** The unit modules are as follows: • INTRODUCTION TO SOFT COMPUTING AND NEURAL NETWORKS • GENETIC ALGORITHMS • NEURAL NETWORKS • FUZZY LOGIC • NEURO-FUZZY MODELING
VI	618ECE06	Speech Processing	**Newly Introduced Course.** The unit modules are as follows: • NATURE OF SPEECH SIGNAL • TIME DOMAIN METHODS FOR SPEECH PROCESSING • FREQUENCY DOMAIN METHODS FOR SPEECH PROCESSING • LINEAR PREDICTIVE CODING OF SPEECH • HOMOMORPHIC SPEECH ANALYSIS
VI	618ECE02	Robotics Engineering	**Newly Introduced Course.** The unit modules are as follows: • INTRODUCTION • ELEMENTS OF ROBOTS-JOINTS, LINKS, ACTUATORS AND SENSORS • END EFFECTORS AND ROBOT CONTROLS • ROBOT CELL DESIGN AND APPLICATIONS • MICRO/NANO ROBOTICS SYSTEM
VII	718ECT01	Adhoc and Wireless Sensor Networks	**Newly Introduced Course.** The unit modules are as follows: • AD HOC NETWORKS – INTRODUCTION AND ROUTING PROTOCOLS • SENSOR NETWORKS – INTRODUCTION & ARCHITECTURES

			• WSN NETWORKING CONCEPTS AND PROTOCOLS • SENSOR NETWORK SECURITY • SENSOR NETWORK PLATFORMS AND TOOLS
VII	718ECE03	Multimedia Compression Techniques	**Newly Introduced Course.** The unit modules are as follows • MULTIMEDIA COMPONENTS • TEXT COMPRESSION • AUDIO COMPRESSION • IMAGE COMPRESSION • VIDEO COMPRESSION
VII	718ECE04	Nano Technology	**Newly Introduced Course.** The unit modules are as follows: • INTRODUCTION • DIVERSITY IN NANO SYSTEMS • METAL NANO PARTICLES AND NANO SHELLS • EVOLVING INTERFACES IN NANO • SOCIETY AND NANO TECHNOLOGY
VII	718ECE06	Optical Networks	**Newly Introduced Course.** The unit modules are as follows: • INTRODUCTION TO OPTICAL NETWORKS AND COMPONENTS • SINGLE AND MULTI-HOP NETWORKS • OPTICAL SWITCHING • OPTICAL ACCESS NETWORKS & METRO NETWORKS • ROUTING AND OPTICAL MULTICASTING
VII	718ECE07	Cognitive Radio	**Newly Introduced Course.** The unit modules are as follows. • INTRODUCTION TO SOFTWARE DEFINED RADIO • SDR ARCHITECTURE • INTRODUCTION TO COGNITIVE RADIOS • COGNITIVE RADIO ARCHITECTURE • NEXT GENERATION WIRELESS NETWORKS
VII	718ECE11	Detection and Estimation Theory	**Newly Introduced Course.** The unit modules are as follows: • HYPOTHESIS TESTING • SIGNAL DETECTION APPLICATIONS • RANDOM PARAMETER ESTIMATION • MINIMUM VARIANCE UNBIASED ESTIMATION • NON-RANDOM PARAMETER ESTIMATION

VII	718ECE12	CMOS Analog IC Design	**Newly Introduced Course.** The unit modules are as follows • INTRODUCTION TO ANALOG IC DESIGN AND CURRENT MIRRORS • AMPLIFIERS AND FEEDBACK • FREQUENCY RESPONSE OF AMPLIFIERS AND NOISE • OPERATIONAL AMPLIFIER STABILITY AND FREQUENCY COMPENSATION • SWITCHED CAPACITOR CIRCUITS AND PLLS
VIII	818ECE04	Parallel and Distributed Processing	**Newly Introduced Course.** The unit modules are as follows: • INTRODUCTION TO DISTRIBUTED AND PARALLEL SYSTEMS • COMMUNICATION IN DISTRIBUTED AND PARALLEL ENVIRONMENT • DISTRIBUTED OPERATING SYSTEMS • DISTRIBUTED RESOURCE MANAGEMENT • FAULT TOLERANCE AND CONSENSUS
VIII	818ECE05	Compressive sensing	**Newly Introduced Course.** The unit modules are as follows • INTRODUCTION TO COMPRESSED SENSING • SPARSITY AND SIGNAL RECOVERY • RECOVERY ALGORITHMS • COMPRESSIVE SENSING FOR WSN • APPLICATIONS OF COMPRESSIVE SENSING
VIII	818ECE06	MEMS and NEMS	**Newly Introduced Course.** The unit modules are as follows: • OVERVIEW AND INTRODUCTION • MEMS FABRICATION TECHNOLOGIES • MICRO SENSORS • MICRO ACTUATORS • ESSENTIALS OF NANO SCALE SYSTEMS/ STRUCTURE
VIII	818ECE09	Microwave Integrated Circuits Design	**Newly Introduced Course.** The unit modules are as follows: • POWER DIVIDERS • FILTER DESIGN • ANALYSIS OF TRANSISTOR AMPLIFIER • OSCILLATOR DESIGN • DIODE MIXER

VIII	818ECE11	Advanced Wireless Communication	**Newly Introduced Course.** The unit modules are as follows: • CAPACITY OF WIRELESS CHANNELS • RADIO WAVE PROPAGATION • SPACE TIME BLOCK CODES • SPACE TIME TRELLIS CODES • LAYERED SPACE TIME CODES
VIII	818ECE12	DSP Architecture and Programming	**Newly Introduced Course.** The unit modules are as follows: • FUNDAMENTALS OF PROGRAMMABLE DSPS • TMS320C3X PROCESSOR • ADSP PROCESSORS • ADVANCED PROCESSORS I • ADVANCED PROCESSORS II
Value-Added Courses are recommended.			

M.E- COMMUNICATION SYSTEMS

Sem	Course Code	Course Name	Remarks (New course Introduced/ Contents incorporated in the corresponding course)
I	118COE04	Wavelet Signal Processing	**Newly Introduced Course. The Unit Modules are as follows:** • FUNDAMENTALS • MULTI RESOLUTION ANALYSIS • CONTINUOUS WAVELET TRANSFORMS • DISCRETE WAVELET TRANSFORM • APPLICATIONS
I	118COE05	WDM Optical Networks	**Newly Introduced Course. The Unit Modules are as follows:** • OPTICAL SYSTEM COMPONENTS • OPTICAL NETWORK ARCHITECTURES • WAVELENGTH ROUTING NETWORKS • PACKET SWITCHING AND ACCESS NETWORKS • NETWORK DESIGN AND MANAGEMENT
II	218COE05	Analysis and Design of Planar Transmission Lines	**Newly Introduced Course. The Unit Modules are as follows:** • ANALYSIS OF PLANAR TRANSMISSION LINES • SPECTRAL DOMAIN METHODS • ANALYSIS OF HYBRID MODE • DESIGN OF COPLANAR & SLOT LINES • MICROSTRIP LINES

II	218COE14	DSP Processor Architecture and Programming	**Newly Introduced Course. The Unit Modules are as follows:** • FUNDAMENTALS OF PROGRAMMABLE DSPS • TMS320C3X PROCESSOR • ADSP PROCESSORS • ADVANCED PROCESSORS I • ADVANCED PROCESSORS II
II	218COE16	Smart Antennas	**Newly Introduced Course. The Unit Modules are as follows:** • INTRODUCTION TO SMART ANTENNAS • SMART ANTENNAS TECHNIQUES FOR CDMA • CHANNEL MODELS • CAPACITY IMPROVEMENT OF CDMA • ESTIMATION TECHNIQUES
II	218COE17	Cognitive Radio	**Newly Introduced Course. The Unit Modules are as follows:** • INTRODUCTION TO SOFTWARE DEFINED RADIO • SDR ARCHITECTURE • INTRODUCTION TO COGNITIVE RADIOS • COGNITIVE RADIO ARCHITECTURE • NEXT GENERATION WIRELESS NETWORKS
II	218COE18	Ultra Wide Band Communication	**Newly Introduced Course. The Unit Modules are as follows:** • UWB SIGNALS AND SYSTEMS WITH UWB WAVEFORMS • SIGNAL PROCESSING TECHNIQUES FOR UWB SYSTEMS AND UWB CHANNEL MODELING • UWB COMMUNICATIONS AND ADVANCED UWB PULSE GENERATION • UWB ANTENNAS & ARRAYS, POSITION & LOCATION WITH UWB SIGNALS • UWB COMMUNICATION STANDARDS AND ADVANCED TOPICS IN UWB COMMUNICATION SYSTEMS
III	318COP02	Internship	**Newly Introduced Course**
III	318COE05	OFDM for Communication Systems	**Newly Introduced Course. The Unit Modules are as follows:** • INTRODUCTION TO OFDM • SYSTEM MODELING CONCEPT OF MULTICARRIER TRANSMISSION • SYNCHRONIZATION • PAPR AND HYBRID CONCEPTS • APPLICATION OF OFDM

III	318COE06	Beamforming in Wireless Communication	**Newly Introduced Course. The Unit Modules are as follows:** • INTRODUCTION TO BEAMFORMING • ADAPTIVE BEAMFORMING • SUBBAND ADAPTIVE BEAMFORMING • DIGITAL BEAMFORMING • ERROR EFFECTS IN DBF
III	318COE12	Advanced Mobile Computing	**Newly Introduced Course. The Unit Modules are as follows:** • PERSONAL COMMUNICATION SYSTEMS • WIRELESS LOCAL AREA NETWORKS • MOBILE INTERNET PROTOCOL • WIRELESS APPLICATION PROTOCOL • WIRELESS LOCAL LOOP TECHNIQUES
III	318COE14	Advanced Techniques for Wireless Reception	**Newly Introduced Course. The Unit Modules are as follows:** • INTRODUCTION TO WIRELESS RECEPTION • DETECTION AND PERFROMANCE • TDMA AND CDMA • ADAPTIVE TECHNIQUES • MIMO CHANNELS
III	318COE15	Wavelets and Mutiresolution Processing	**Newly Introduced Course. The Unit Modules are as follows:** • FUNDAMENTALS • MULTI RESOLUTION ANALYSIS • CONTINUOUS WAVELET TRANSFORMS • DISCRETE WAVELET TRANSFORM • APPLICATIONS

M.E – VLSI DESIGN

Sem	Course Code	Course Name	Remarks (New course Introduced/ Contents incorporated in the corresponding course)
I	118VLE01	Data Converters	**Newly Introduced Course. The unit modules are as follows:** • INTRODUCTION AND CHARACTERISTICS OF AD/DA CONVERTER • SWITCH CAPACITOR CIRCUITS AND COMPARATORS • NYQUIST RATE D/A CONVERTERS • PIPELINE AND OTHER ADCs • SIGMA DELTA CONVERTERS

I	118VLE04	Security Solutions in VLSI	**Newly Introduced Course. The unit modules are as follows:** • BASIC CONCEPTS • ENCRYPTION TECHNIQUES • FIREWALLS AND CYBER LAWS • FUTURE THREATS TO NETWORK • CRYPTO CHIP DESIGN
II	218VLE03	Solid State Device Modelling and Simulation	**Newly Introduced Course. The unit modules are as follows:** • MOSFET DEVICE PHYSICS • DEVICE MODELLING • MULTISTEP METHODS • MATHEMATICAL TECHNIQUES FOR DEVICE SIMULATIONS • SIMULATION OF DEVICES
II	218VLE06	Artificial Intelligence and Optimization Techniques	**Newly Introduced Course. The unit modules are as follows:** • NEURAL NETWORKS • FUZZY LOGIC SYSTEMS • EVOLUTIONARY COMPUTATION AND GENETIC ALGORITHMS • ANT COLONY OPTIMIZATION • PARTICLE SWARM OPTIMIZATION
II	218VLE11	Introduction to MEMS System Design	**Newly Introduced Course. The unit modules are as follows:** • INTRODUCTION TO MEMS • MECHANICS FOR MEMS DESIGN • ELECTRO STATIC DESIGN • CIRCUIT AND SYSTEM ISSUES • INTRODUCTION TO OPTICAL AND RF MEMS
II	218VLE15	Scripting languages	**Newly Introduced Course. The unit modules are as follows:** • INTRODUCTION TO SCRIPTS AND SCRIPTING • ADVANCED PERL • TCL • ADVANCED TCL

			• TK AND JAVASCRIPT
II	218VLE18	Advanced MOSFET Modelling	**Newly Introduced Course. The unit modules are as follows:** • BASIC DEVICE PHYSICS • MOSFET DEVICES • NANO-SCALED CLASSICAL MOSFETs • NON-CLASSICAL MOSFETs • COMPACT MODELS FOR CIRCUIT SIMULATORS
III	318VLE04	Nano Scale Transistors	**Newly Introduced Course. The unit modules are as follows:** • INTRODUCTION TO NOVEL MOSFETS • PHYSICS OF MULTIGATE MOS SYSTEM • NANOWIRE FETS AND TRANSISTORS AT THE MOLECULAR SCALE • RADIATION EFFECTS • CIRCUIT DESIGN USING MULTIGATE DEVICES
III	318VLE08	Genetic Algorithms and its Applications	**Newly Introduced Course. The unit modules are as follows:** • INTRODUCTION TO GENETIC ALGORITHMS • PARTITIONING • PLACEMENT AND ROUTING • GENETIC ALGORITHMS IN VLSI TESTING • FPGA TECHNOLOGY MAPPING AND PEAK POWER ESTIMATION
III	318VLE09	Submicron VLSI Design	**Newly Introduced Course. The unit modules are as follows:** • SILICON REALIZATION OF ASIC • LOW POWER DESIGN • DESIGN FOR RELIABILITY • DEEP SUB MICRON • CMOS DEVICES
III	318VLE10	IP Based VLSI Design	**Newly Introduced Course. The unit modules are as follows:** • VLSI AND ITS FABRICATION • COMBINATIONAL LOGIC NETWORKS

			• SUBSYSTEM DESIGN • FLOOR PLANNING AND ARCHITECTURE DESIGN • DESIGN SECURITY
III	318VLE18	High Speed VLSI	**Newly Introduced Course. The unit modules are as follows:** • RECONFIGURABLE COMPUTING HARDWARE • MAPPING DESIGNS INTO RECONFIGURABLE PLATFORMS • COMPUTATIONAL ARCHITECTURES FOR FP • OPTICAL RECONFIGURATION MODELS • MULTI CORE ARCHITECTURES
Feedback obtained about curriculum and syllabus from stakeholders (Students, Faculty, Employers & Alumni) were also discussed and concluded.			

BOS CHAIRMAN

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING [AUTONOMOUS] , HOSUR-635109
FACULTY OF ELECTRONICS & COMMUNICATION ENGINEERING[UG&PG]
PHOTO OF 19th BoS MEETING ON 21.04.2018

Clockwise:
Dr.T.S.Udhaya Suriya,Dr.T.Menakadevi,Shri.J.Ravikumar, Dr.L.Ganesan, Dr.S.Sumathi, Dr.G.Geetha, Dr.K.A.Dattatreya,Dr.E.Saravanakumar ,Prof.M.Sivakumar , Prof.S.Chidambaram.

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ADHIYAMAAN COLLEGE OF ENGINEERING, HOSUR-635 109

(Autonomous)

BOARD OF STUDIES IN ELECTRONICS & COMMUNICATION ENGINEERING

Minutes of the Eighteenth Meeting

Minutes of the 18th Meeting of the Board of Studies in Electronics & Communication Engineering held on 28.10.2017 at 10.00 A.M.

MEMBERS PRESENT

1. Dr. S. Sumathi, Chairman
2. Dr. K.A.Dattatreya, Internal Member
3. Dr. T Menakadevi,Internal Member
4. Dr.S.Sathish,Internal Member
5. Prof.M.Sivakumar, Internal Member
6. Prof.S.Chidambaram, Internal Member
7. Dr.T.S.Udhaya Suriya , Interdisciplinary Member,HoD/BME
8. Dr.L.Ganesan ,University Nominee
9. Dr.G.Geetha, Academic Council Nominee
10. Dr.K.J.Shanthi, Academic Council Nominee
11. Shri.J.Ravi Kumar ,Industry Representative
12. Shri.N.Thandayuthapani , Alumnus Member

18.1 To consider the minutes of the 17th Board of Studies meeting in Electronics and Communication Engineering held on 01.04.2017.

RESOLVED that the minutes of the 17th Board of Studies meeting in Electronics and Communication Engineering held on 01.04.2017 have been considered.

18.2 To consider the Syllabi of 8th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2011 for the batch of students admitted in 2014 – 2015.

RESOLVED that the Syllabi of 8th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2011 for the batch of students admitted in 2014 – 2015 be approved (Annexure I)

18.3 To consider the Syllabi of 6th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2015 – 2016.

RESOLVED that the Syllabi of 6th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2015 – 2016 be approved (Annexure II)

18.4 To consider the Syllabi of 4th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2016 – 2017.

RESOLVED that the Syllabi of 4th Semester B.E. (Electronics and Communication Engineering) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2016 – 2017 be approved (Annexure III)

18.5 To consider the Syllabi of "Microprocessors and Microcontrollers" and "Signals and Systems" for 4th Semester B.Tech (Information Technology) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2016 – 2017.

RESOLVED that the Syllabi of "Microprocessors and Microcontrollers" and "Signals and Systems" for 4th Semester B.Tech (Information Technology) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2016 – 2017 be approved (Annexure IV)

18.6 To consider the Syllabi of "Electric Circuits and Electron Devices" and "Circuits and Devices Laboratory" for 2nd Semester B.E (Electronics & Communication Engineering programme) under the Regulations 2015(CBCS) for the batch of students admitted in 2017 – 2018.

RESOLVED that the Syllabi of "Electric Circuits and Electron Devices" and "Circuits and Devices Laboratory" for 2nd Semester B.E (Electronics & Communication Engineering programme) under the Regulations 2015(CBCS) for the batch of students admitted in 2017 – 2018 be approved (Annexure V)

18.7 To consider the Syllabi of 2nd Semester M.E. (Communication Systems) programme under the Regulations 2015 (CBCS) for the batch of students admitted in 2017-2018.

RESOLVED that the Syllabi of 2nd Semester M.E. (Communication Systems) programme under the Regulations 2015 (CBCS) for the batch of students admitted in 2017-2018 be approved (Annexure VI)

18.8 To consider the Syllabi of 4th Semester M.E. (VLSI Design) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2016-2017.

RESOLVED that the Syllabi of 4th Semester M.E. (VLSI Design) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2016-2017 be approved (Annexure VII)

18.9 To consider the Syllabi of 2nd Semester M.E. (VLSI Design) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2017-2018.

RESOLVED that the Syllabi of 2nd Semester M.E. (VLSI Design) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2017-2018 be approved (Annexure VIII)

18.10 To consider the Syllabus of "Digital Image Processing" for 2nd Semester M.E. (Computer Science and Engineering) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2017-2018.

RESOLVED that the Syllabus of "Digital Image Processing" for 2nd Semester M.E. (Computer Science and Engineering) programme under the Regulations 2015(CBCS) for the batch of students admitted in 2017-2018 be approved. (Annexure IX)

18.11 To consider the Subjects for course work of Ph.D programme in the Department of Electronics and Communication Engineering.

RESOLVED that the Subjects for course work of Ph.D programme in the Department of Electronics and Communication Engineering be approved (Annexure X)

Date: 28.10.2017

Signature of Chairman –BoS

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
Adhiyamaan College of Engineering (Autonomous)
Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS), HOSUR-635 109
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Members Present for the Eighteenth Board of Studies Meeting held on 28.10.2017

Sl.No.	Name & Address of the Members	Category	Signature
1	Dr. S. Sumathi, Ph.D (VLSI)., Prof & Head, Dept. of ECE, ACE, Hosur.	BoS-Chairman	
2	Dr. K.A.Dattatreya, M.E (Electronics), MBA, Ph.D Professor, Dept. of ECE, ACE, Hosur.	Internal Member	
3	Dr. T.Menakadevi.,M.Tech (VLSI),Ph.D., Professor, Dept. of ECE, ACE, Hosur.	Internal Member	
4	Dr.S.Sathish.,M.E (Communication Systems),MBA,Ph.D Associate Professor,Dept. of ECE, ACE, Hosur.	Internal Member	
5	Mr.M.Sivakumar,M.E(Communication Systems)., AP, Dept. of ECE, ACE, Hosur.	Internal Member	
6	Mr.S.Chidambaram.,M.E(Power Electronics & Drives) AP, Dept. of ECE, ACE, Hosur.	Internal Member	
7	Dr.T.S.Udhaya Suriya Professor & Head Department of BME, ACE, Hosur.	Interdisciplinary Member	
8	Prof.Dr.L.Ganesan Prof & Head Department of CSE Alagappa Chettiar College of Engineering and Technology,Karaikudi – 630 004.	University Nominee	28.10.17
9	Prof.Dr.G.Geetha Associate Professor Department of ECE CEG Campus Anna University,Chennai-25.	Academic Council Nominee	
10	Prof.Dr.K.J.Shanthi Professor & Head Department of Medical Electronics Dr. Ambedkar Institute of Technology Mallathalli, Bangalore – 56.	Academic Council Nominee	
11	Shri.J.Ravi Kumar Proprietor Technilab Instrument Bangalore – 560033.	Industry Representative	
12	Shri.N.Thandayuthapani Senior Software Engineer Robert-Bosch Engineering Business Solutions Bangalore.	Alumnus Member	

Signature of the Chairman-BoS

Date: 28.10.2017

Chairman, Board of Studies
Faculty of Electronics and Communication Engineering (UG & PG)
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Hosur - 635 109
Krishnagiri (Dt), Tamil Nadu.

Department of ECE- 18th BOS Recommendations			
Sem	Course Code	Name of the course	Remarks (New course Introduced/contents incorporated in the corresponding course)
VI	615ECT01	Transmission Lines and Waveguides	The following topics are included in the existing syllabus, ▪ Calculation of voltage, current and power delivered and efficiency of transmission ▪ Voltage and current on the dissipation-less line , Open and short circuited lines. ▪ Impedance matching by stubs ▪ Characteristic Impedance of symmetrical networks ▪ Constant K – low pass, high pass, band pass, band elimination
VI	615ECT02	VLSI Design	The following topics are included in the existing syllabus, • AOI and OAI logic. • VHDL Description of Combinational Networks
VI	615ECT03	Digital Communication	The following topics are included in the existing syllabus, • Digital Multiplexers. • QAM-DPSK. • Matched filters.
VI	615ECT04	Antenna and Wave Propagation	The following topics are included in the existing syllabus, • Polarization mismatch, Antenna noise temperature • Radiation from rectangular apertures, Uniform and Tapered aperture , Numerical tool for antenna analysis. • Basic principle of antenna Synthesis-Binomial array • Principle of frequency independent antennas –Spiral antenna, Modern antennas • Troposcatter propagation, Multi hop propagation
VI	615ECP08	VLSI Design Laboratory	The following experiments are included in the existing syllabus, • 8-bit Subtractor
VI	615ECP09	Analog and Digital Communication Systems Laboratory	The following topics are included in the existing syllabus, • Filter bank realization of the periodogram • Parametric methods – ARMA, AR and MA model based spectral estimation, • Solution using Levinson-Durbin algorithm

VI	615ECE01	Digital Image Processing	The following topics are included in the existing syllabus, • Hough Transform
VI	615ECE02	Advanced Digital Signal Processing	The following topics are included in the existing syllabus, • Filter bank realization of the periodogram • Parametric methods – ARMA, AR and MA model based spectral estimation, • Solution using Levinson-Durbin algorithm
VI	615ECE03	Digital System Design using VHDL	The following topics are included in the existing syllabus, • Memory and Register
VI	615ECE04	Information Theory Coding	The existing syllabus has been entirely reframed with the following unit modules • Information Entropy Fundamentals • Source Coding • Compression Techniques • Data and Voice Coding • Error Control Codes
Feedback obtained about curriculum and syllabus from stakeholders(Students, Faculty,Employers & Alumni) were also discussed and concluded.			

BOS CHAIRMAN

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ADHIYAMAAN COLLEGE OF ENGINEERING [AUTONOMOUS] , HOSUR-635109
FACULTY OF ELECTRONICS & COMMUNICATION ENGINEERING[UG&PG]
PHOTO OF 18th BoS MEETING ON 28.10.2017

Clockwise:
Dr.S.Sathish, Dr.T.Menakadevi, Dr.T.S.Udhaya Suriya, Shri.J.Ravikumar, Dr.L.Ganesan, Dr.S.Sumathi, Dr.G.Geetha, , Prof.M.Sivakumar , Dr.K.A.Dattatreya, Prof.S.Chidambaram.

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