

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI 625 015
Department of Electronics and Communication Engineering

MINUTES OF THE MEETING

Name of the meeting : Board of Studies Meeting, ECE Department
Date of the meeting : 11.11.2017
Time : 10.30 A.M
Duration : 3 Hours
Venue : ECE Seminar Hall, Thiagarajar College of Engineering, Madurai

The following points were discussed:

1. Approval of Program Specific Outcomes (PSOs) statements for B.E (ECE) programme.
2. Approval of Course Outcome (CO) – Program Outcome (PO) - Program Specific Outcome (PSO) mapping for Outcome based B.E.(ECE) courses.
3. Approval of Courses – Program Outcome (PO) - Program Specific Outcome (PSO) mapping for Competency based B.E.(ECE) courses.
4. Approval of Expected Proficiency level and Expected Attainment Level of Course Outcomes for all courses for B.E (ECE) programme and attainment level for Program Outcomes (POs) and Program Specific Outcomes (PSOs).
5. To revise the Bloom's assessment pattern for the courses in B.E (ECE), ME (CS) and ME (WT) programme based on the amendments in regulation and continuous assessment tests approved in the 54th Academic Council meeting conducted on 17.06.2017.
6. Categorization of courses in Choice Based Credit System.
7. Any other matter

Attended by:

Dr.R.Sukanesh	Chairman, Board of Studies (ECE) / Head of ECE Department, TCE, Madurai	<i>Mukand</i>
Dr.G.Geetha	Associate Professor, Department of ECE, Anna University, Chennai	<i>G. Geetha</i>
Dr.P.T.Vanathi	Associate Professor, Department of ECE, PSG College of Technology, Coimbatore	<i>P.T.V.</i>
Dr.Shayan G. Srinivasa	Assistant Professor, Department of Electronic System Engg., Indian Institute of Science, Bangalore	<i>SSG</i>
Dr. Balaji Srinivasan	Associate Professor, Department of EE, Indian Institute of Technology Madras	<i>Balaji</i>
Mr.V.V.Pathy	Head Business Development – Education, Keysight Technologies, Bangalore	<i>V.V.P.</i>

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI 625 015
Department of Electronics and Communication Engineering

Faculty Members:

1. Dr.V.Abhaikumar
2. Dr. S. Raju
3. Dr. M. Suganthi
4. Dr. S.J. Thiruvengadam
5. Dr. S. Rajaram
6. Dr. S. Md. Mansoor Roomi
7. Dr. B. Manimegalai
8. Dr.R.A.Alagu Raja
9. Dr. T. Aruna *T. Aruna*
10. Dr.S.Kanthamani
11. Dr.K.Hariharan
12. Dr. M.S.K. Manikandan
- ~~13. Dr.L.R.Karl Marx~~
14. Dr. A. Banumathi *Banumathi*
15. Dr. A. Thenmozhi
16. Dr. B. Yogameena *B. Yogameena*
17. Dr. B. Sathyabama
18. Dr.M.N.Suresh

Professor and Principal *V. Abhaikumar*

Professor and Dean (Industry Interface)

Associate Professorr *S. Raju*

Professor

Associate Professor *S. Raju*

Assistant Professor *S. Raju*

Assistant Professor *Manimegalai*

Assistant Professor *R. Aragu Raja*

Assistant Professor *T. Aruna*

Associate Professor *Shanthamani*

Associate Professor *K. Hariharan*

Associate Professor *M. S. K. Manikandan*

~~Associate Professor~~

Associate Professor *Banumathi*

Associate Professor *A. Thenmozhi*

Associate Professor *B. Yogameena*

Associate Professor *B. Sathyabama*

Assistant Professor *M. N. Suresh*

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI 625 015
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19. Dr. K. Rajeswari	Assistant Professor	K Rajeswari
20. Dr. N.B. Balamurugan	Associate Professor	N Balamurugan
21. Dr.V.Vinoth Thyagarajan	Assistant Professor	V.Vinoth Thyagarajan
22. Dr.S.Ponmalar	Assistant Professor	S Ponmalar
23. Dr. G. Ananthi	Assistant Professor	G Ananthi
24. Mrs. E. Murugavalli	Assistant Professor	E Murugavalli
25. Dr.V.N.Senthilkumaran	Assistant Professor	V.N.Senthilkumaran
26. Mr.K. Vasudevan	Assistant Professor	K. Vasudevan
27. Dr.D. Gracia Nirmala Rani	Assistant Professor	D Gracia Nirmala Rani
28. Dr. P.G.S. Velmurugan	Assistant Professor	P.G.S. Velmurugan
29. Dr.V.R. Venkatasubramani	Assistant Professor	V.R. Venkatasubramani
30. Dr. K. Kalyani	Assistant Professor	K. Kalyani
31. Mr.M.Senthilnathan	Assistant Professor	M.Senthilnathan

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Sl.No	Points Discussed	Action Plan	Responsibility	Target date
1.	Vision and Mission of the Institution and Department	Dr.R.Sukanesh welcomed the expert/internal BoS members and presented the Agenda of the meeting. Dr.V.R.Venkatasubramani discussed the statement of Vision and Mission of the Institution and Department.	-	-
2.	Program Outcomes	Dr.V.R.Venkatasubramani discussed about the Program Outcomes of UG Programme given from NBA document.	-	-
3.	Approval of Program Specific Outcomes (PSOs) statements for B.E (ECE) programme	The following Program Educational Objective (PEOs) statements were approved for B.E (ECE) Programme after scrutinization: PSO1. Design circuits and systems for complex engineering problems in Electronics and Communication and allied areas. PSO2. Apply research methodologies to provide solutions for contemporary problems in the areas including RF, Signal Processing, Image Processing, VLSI, Optical Communication, Networks and Embedded Systems for given specifications. PSO3. Actively contribute as a member or leader in diverse teams, and communicate effectively on complex engineering activities and involve in life-long learning, by applying reasoning and ethical principles	-	-
4.	Approval of Course Outcome (CO) – Program Outcome (PO) - Program Specific Outcome (PSO) mapping for Outcome based B.E.(ECE) courses.	The Course Outcome (CO) – Program Outcome (PO) - Program Specific Outcome (PSO) mapping for Outcome based B.E.(ECE) courses in the form of Course Articulation Matrix and Program Articulation Matrix has been approved without change.	-	-

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5.	Course competencies – Program Outcome (PO) - Program Specific Outcome (PSO) mapping for Competency based B.E.(ECE) courses.	The Course competencies – Program Outcome (PO) - Program Specific Outcome (PSO) mapping for Competency based B.E.(ECE) courses in the form of Course Articulation Matrix and Program Articulation Matrix has been approved without change.	-	-
6.	Expected Proficiency level and Expected Attainment Level of Course Outcomes for all courses for B.E (ECE) programme and attainment level for Program Outcomes (POs) and Program Specific Outcomes (PSOs).	The Expected Proficiency level and Expected Attainment Level of Course Outcomes for all courses for B.E (ECE) programme and attainment level for Program Outcomes (POs) and Program Specific Outcomes (PSOs) has been approved. The following changes are suggested: <ul style="list-style-type: none"> A maximum attainment level may be fixed for percentage of students achieving "S" grade in Elective courses. 	Faculty Members	-
7.	Revised Bloom's assessment pattern for the courses in B.E (ECE), ME (CS) and ME (WT) programme based on the amendments in regulation and continuous assessment tests approved in the 54th Academic Council meeting conducted on 17.06.2017	The revised Bloom's assessment pattern for the courses in B.E (ECE), ME (CS) and ME (WT) programme based on the amendments in regulation and continuous assessment tests has been approved without change.	-	-
8.	Categorization of courses in Choice Based Credit System.	The Categorization of courses in Choice Based Credit System has been approved. The following changes are suggested: <ul style="list-style-type: none"> 14EC450 Environment Science may be moved under the Basic science category from Humanities and Social Science category. 	Dr.S.J.Thiruvengadam	17.11.17
9.	The approval of the syllabi for the course 14EC4C2 Capstone I	The 14EC4C2 Capstone-I syllabus has been approved without change.	-	-
10.	The approval of the syllabi for the course 15EC431 RF Transmission Lines and Passive Circuits	Dr.V.Abhaikumar presented the Course and the syllabus has been approved without change. The new CO's are tailored towards more specific and it was framed with inputs from Industries.	-	-

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11.	The approval of the syllabi for the course 15EC531 RF Active Circuits	Dr.V.Abhaikumar presented the Course and the syllabus has been approved without change. The new CO's are tailored towards more specific and it was framed to upgrade the existing blooms level.	-	-
12.	Equivalent Courses for Third and Fourth semesters for Mr.G.Muhilvannan (Reg.No: 13D128), who has underwent Recourse (RC), has shifted from Competency based curriculum to Outcome based Curriculum when he rejoined in V semester BE (Electronics and Communication Engineering) at Thiagarajar College of Engineering, Madurai in the academic year 2016-17 (Odd Semester). We hereby submit the	Board of studies Members have approved the recommendations based on the Equivalent Courses.	-	-
13.	Scheduling of Courses	<ul style="list-style-type: none"> A core course on "Control Systems" should be included in the curriculum. The existing curriculum has too many courses offered per semester. One course per semester may be dropped. Instead, more Theory cum practical courses with increased credits can be included in the curriculum. Consumer Electronics can be offered as Theory cum practical course to ECE students Schedule only core course till fifth semester. From sixth semester onwards, only elective courses are to be offered. 14EC720: Optical Communication Networks may be changed as "Optical Communication and Networking". 	Faculty members	-

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<p>14. The general recommendations of the experts</p>	<ul style="list-style-type: none"> • Include "Elements of Engineering Electromagnetics" by N.N.Rao as text book for 14EC450: Electromagnetics course. • Include two text books for each course. • 14EC230: Semiconductor Devices course syllabus includes topics based on "quantum mechanics". Those topics may be replaced by topics based on "carrier transportation in semiconductors". Also the course may be synchronized with lab course. • 14EC570: Image Processing (Theory cum Practical) course may be combined with the DSP Architecture and Programming course (TCP) to emphasize on real-time image processing hardware. • 14EC370: Microprocessor Architecture and Programming and 14EC420:Microcontrollers can be integrated as a single course. • Chemistry lab content may to be framed in the context of ECE domain by Include experiments based on electrochemistry, Air quality monitoring, water monitoring and embedded sensors. • Include topics based on computing in the 14EC410: Numerical methods and optimization course. This course may be offered as Theory cum practical. • Use CAD/CAM tools and minimize pencil drawing in 14ME170 Engineering Graphics course. • 14EC240: Materials science course syllabus can include topics based on optical, device and semiconductor materials to customize it more relevant to ECE domain. • Encourage student Internship. 	<p>Faculty members</p> <p align="center">-</p>
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Prepared by

V. Venkatesh Kumar

Date: 11.11.2017

Approved by

R. Sankar
 HD ECE
 TC

Date: 11.11.2017

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI 625 015
Department of Electronics and Communication Engineering
MINUTES OF THE MEETING

Name of the meeting : Board of Studies Meeting, ECE Department
Date of the meeting : 14.07.2018
Time : 10.45 A.M
Duration : 3 Hours
Venue : ECE Seminar Hall, Thiagarajar College of Engineering, Madurai

The following points were discussed:

1. Categorization of courses in Choice Based Credit System of M.E (Communication Systems) and M.E (Wireless Technologies) programme for students joining from the Academic year 2018-19 onwards.
2. Scheduling of courses for M.E (Communication Systems) and M.E (Wireless Technologies) programme for students joining from the Academic year 2018-19 onwards.
3. Detailed Syllabi for courses of I to IV semester M.E (Communication Systems) and M.E (Wireless Technologies) programme for students joining from the Academic year 2018-19 onwards.
4. Categorization of courses in Choice Based Credit System of B.E. ECE for students joining from the Academic year 2018-19 onwards.
5. Scheduling of courses for B.E. ECE students joining from the Academic year 2018-19 onwards.
6. Any other matter.

Attended by:

Dr.S.J.Thiruvengadam	Chairman, Board of Studies (ECE) / Head of ECE Department, TCE, Madurai	<i>S.J. Thiruvengadam</i> 14/7/18
Dr.D.Sriram Kumar	Professor, Department of ECE, National Institute of Technology Trichy	<i>D. Sriram Kumar</i> 14/7/2018
Dr.M.Ganesh Madhan	Professor, Department of Electronics Engineering, Madras Institute of Technology, Chennai	<i>M. Ganesh Madhan</i>
Dr. T. Ganesan	Director and CTO, MMRFIC Technology Pvt. Ltd., Bangaluru	<i>T. Ganesan</i>
Mr.P.Chinnadurai	Sr. Project Leader, Jasmin Infotech Pvt. Ltd., Chennai	<i>P. Chinnadurai</i>
Dr. S.Deepak Ram Prasath	Project Manager, Thiagarajar Telekom Solutions Ltd. , Madurai	<i>S. Deepak Ram Prasath</i> 14/7/18

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17. Dr. N.B. Balamurugan

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Professor and Principal

V. Arun Kumar

Professor and Dean (Industry Interface)

—

Associate Professor

S.B.

Assistant Professor

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Assistant Professor

M. Manimegalai

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20. Dr. G. Ananthi

Assistant Professor

21. Dr. E. Murugavalli

Assistant Professor

22. Dr.V.N.Senthilkumaran

Assistant Professor

23. Dr.K. Vasudevan

Assistant Professor

24. Dr.D. Gracia Nirmala Rani

Assistant Professor

25. Dr. P.G.S. Velmurugan

Assistant Professor

26. Dr.V.R. Venkatasubramani

Assistant Professor

27. Dr. K. Kalyani

Assistant Professor

28. Mr.M.Senthilnathan

Assistant Professor

29. Dr.G.Jothi Lakshmi

Associate Professor/Mathematics

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Assistant Professor

28. Mr.M.Senthilnathan

Assistant Professor

29. Dr.G.Jothi Lakshmi

Associate Professor/Mathematics

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#	Points Discussed	Action Plan	Responsibility	Target date
1.	ECE Department Vision/Mission, Programme Educational Objectives, and Program Outcomes	Dr.S.J.Thiruvengadam welcomed the members of the Board of studies and presented the Agenda of the meeting followed by ECE Department Vision/Mission, Programme Educational Objectives, and Program Outcomes of M.E (Communication Systems) and M.E (Wireless Technologies) programme. Dr.Balaji Srinivasan, Associate Professor, Department of Electrical Engineering, IIT Madras also participated in this Board of studies meeting vis Skype video call for about 30 minutes duration.	-	-
2.	Credit Distribution, Categorization of Courses, Scheduling of Courses, Courses of Study, and Scheme of Examinations	Dr.S.J.Thiruvengadam presented the Credit Distribution, Categorization of Courses, Scheduling of Courses, Courses of Study, and Scheme of Examinations for M.E (Communication Systems) and M.E (Wireless Technologies) programme and the same have been passed for approval in Academic council meeting. The following recommendations are suggested: <ul style="list-style-type: none"> To introduce open elective courses on Entrepreneurship and Design Thinking in the M.E(CS) and M.E(WT) Programme curriculum. To introduce value added courses such as Professional Communication, Labour law, Company law, Foreign trade in the M.E(CS) and M.E(WT) Programme curriculum 	Dr.S.J.Thiruvengadam	-
3.	18CN110/18WT110 Mathematics for Communications	Dr.G.Jothilakshmi presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
4.	18CN120 RF Circuits for Communication Systems	Dr.K.Vasudevan presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> Can include S-parameters and link budget calculations. Can include book "RF Microelectronics" by Razavi. Include only Class A and Class C power amplifiers. 	Dr.K.Vasudevan	17.07.18

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#	Points Discussed	Action Plan	Responsibility	Target date
5.	18CN130 Wireless Networks	Dr.T.Aruna presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> The course title may be changed as "Wireless Cellular Networks" May include NB-IOT. Can remove topic on "Testing and Evaluation" 	Dr.T.Aruna	17.07.18
6.	18CN160 Communication System Engineering	Dr.S.J.Thiruvengadam presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
7.	18CN170 RF Circuits Laboratory	Dr.K.Vasudevan presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> Can include experiment on impedance matching. The focus should be on measurements Lab experiments can be restructured as per system level requirements. 	Dr.K.Vasudevan	17.07.18
8.	18CN210 Baseband Wireless Communication Systems	Dr.S.J.Thiruvengadam presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
9.	18PG250 Research Methodology and IPR	Dr.S.J.Thiruvengadam presented the course and the syllabus has been passed for approval in Academic council meeting. The syllabus is adapted from AICTE Model Curriculum for Postgraduate Degree Courses in Engineering & Technology, Volume-I, January 2018.	-	-
10.	18CN260 RF Front End and Antennas	Dr.B.Manimegalai presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested. <ul style="list-style-type: none"> The course title may be changed as "RF Frontend Systems" Can Minimize theory content it that is covered in Lab. May Include link budget. 	Dr.B.Manimegalai	17.07.18

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#	Points Discussed	Action Plan	Responsibility	Target date
11.	18CN270 Baseband Communications Laboratory	Dr.S.J.Thiruvengadam presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
12.	18CN280/18WT280 Mini Project	Dr.S.J.Thiruvengadam presented the course and has been passed for approval in Academic council meeting. The guidelines for this course is adapted from AICTE Model Curriculum for Postgraduate Degree Courses in Engineering & Technology, Volume-I, January 2018.	-	-
13.	18CN380/18WT380 Dissertation Phase I	Dr.S.J.Thiruvengadam presented the course and has been passed for approval in Academic council meeting. The guidelines for this course is adapted from AICTE Model Curriculum for Postgraduate Degree Courses in Engineering & Technology, Volume-I, January 2018.	-	-
14.	18CN480/18WT480 Dissertation Phase II	Dr.S.J.Thiruvengadam presented the course and has been passed for approval in Academic council meeting. The guidelines for this course is adapted from AICTE Model Curriculum for Postgraduate Degree Courses in Engineering & Technology, Volume-I, January 2018.	-	-
15.	18WT120 RF Circuits for Wireless Systems	Dr.K.Vasudevan presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> • Can include link budget calculations. • Can include book "RF Microelectronics" by Razavi. • Include only Class A and Class C power amplifiers. 	Dr.K.Vasudevan	17.07.18
16.	18WT130 Wireless Network Technologies	Dr.E.Murugavalli presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> • May include topics on "security". 	Dr.E.Murugavalli	17.07.18
17.	18WT160 Random Signal Processing	Dr.P.G.S.Velmurugan presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-

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18.	18WT170 RF Circuits Laboratory	Dr.K.Vasudevan presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> • Can include experiment on impedance matching. • The focus should be on measurements • Lab experiments can be restructures as per system requirements. 	Dr.K.Vasudevan	17.07.18
19.	18WT210 Antennas for Wireless Applications	Dr.B.Manimegalai presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested. <ul style="list-style-type: none"> • Can include topics on Artificial Intelligence with regard to antenna. 	Dr.B.Manimegalai	17.07.18
20.	18WT260 Wireless Digital Communications	Dr.S.J.Thiruvengadam presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
21.	18WT270 Wireless Networks Laboratory	Dr.E.Murugavalli presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
22.	18CNPA0: Array Signal Processing	Dr.S.J.Thiruvengadam presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
23.	18CNPB0: Digital Speech Processing	Dr.M.N.Suresh presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
24.	18CNPC0: Radar Systems	Dr.P.G.S.Velmurugan presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
25.	18CNPD0: Physical Layer LTE Systems	Dr.S.J.Thiruvengadam presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
26.	18CNPE0/18WTPA0: RF Test and Measurement	Dr B Manimegalai presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
27.	18CNPF0/18WTPA0: EMI and EMC	Dr A Thenmozhi presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
28.	18CNPG0/18WTPA0: RF MEMS for High Performance Passives	Dr.S.Kanthamani presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-

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#	Points Discussed	Action Plan	Responsibility	Target date
29.	18CNPH0/18WTPA0: Radio Frequency Integrated Circuits	Dr.S.Kanthamani presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
30.	18CNPJ0/18WTPA0: Antennas for Wireless Applications	Dr.B.Manimegalai presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
31.	18CNPK0: Image Systems Engineering	Dr.A.Banumathi presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
32.	18CNPL0: Computational Visual Recognition	Dr. B.Yogameena presented the course and the syllabus has been passed for approval in Academic council meeting. . The following changes are suggested. <ul style="list-style-type: none"> Course title may be changes as "Machine Learning for Visual Recognition". 	Dr.B.Yogameena	17.07.18
33.	18CNPM0/18WTPL0: Intelligent Video Surveillance Systems	Dr. B.Yogameena presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
34.	18CNPN0: Medical Imaging and Classification	Dr.A.Banumathi presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
35.	18CNPP0: Remote Sensing Data Analytics	Dr.B.Sathyabama presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
36.	18CNPQ0: Digital Integrated Circuits	Dr.S.Rajaram presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
37.	18CNPR0: Analog Integrated Circuits	Dr.N.B.Balamurugan presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
38.	18CNPS0/18WTPQ0: Internet of Things	Dr.K.Hariharan presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> May be offered as a "Theory cum practical" course. Order of modules in the syllabus may be changed. 	Dr.K.Hariharan	17.07.18
39.	18CNPT0/18WTPQR0: System-on-Chip	Dr.K.Hariharan presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-

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40.	18CNPU0: Optical Communication Systems	Dr.S.Ponmalar presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested. <ul style="list-style-type: none"> • More topics on Optical sources can be included. 	Dr.S.Ponmalar	17.07.18
41.	18CNPV0/18WTPT0: Number Theory and Cryptography	Dr.M.S.K.Manikandan presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested. <ul style="list-style-type: none"> • Can remove topics on Quantum cryptography and Security protocols. • Can include book by Veni Madhavan, Abhijit Das titled "Public Key Cryptography: Theory And Practice". 	Dr.M.S.K.Manikandan	17.07.18
42.	18CNPW0/18WTPP0: Reconfigurable Wireless Transceivers	Dr.K.Kalyani presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
43.	18CNPX0/18WTPE0: RF CAD Tools	Dr.K.Vasudevan presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
44.	18CNPY0/18WTPW0 Machine Learning for Signal Processing	Dr.G.Ananthi presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
45.	18WTPF0: MIMO OFDM Systems	Dr.K.Rajeswari presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
46.	18WTPG0: Millimeter Wave Communications	Dr.V.N.Senthilkumaran presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
47.	18WTPH0: 5G Wireless Technologies	Dr.M.N.Suresh presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
48.	18WTPJ0: Cognitive Radio Communications	Dr.P.G.S.Velmurugan presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-

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#	Points Discussed	Action Plan	Responsibility	Target date
49.	18WTPK0: Physical Layer Security	Dr.G.Ananthi presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
50.	18WTPM0: Digital Integrated Circuit Design with HDL	Dr.D.Gracia Nirmala Rani presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
51.	18WTPN0: VLSI for Wireless Communication	Dr.V.Vinoth Thyagarajan and Dr.V.R.Venkatasubramani presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
52.	18WTPS0: Optical Wireless Communication	Dr.S.Ponmalar presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
53.	18WTPU0: Cognitive Radio Networks	Dr.T.Aruna presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
54.	18WTPV0: Multimedia Coding and Transmission	Dr.B.Sathyabama presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
55.	18CNGA0/18WTGA0 Convex Optimization	Dr.S.J.Thiruvengadam presented this open elective course and syllabus is passed for approval in Academic council meeting.	-	-
56.	18EC1D0 Embedded System Design	Dr.K.Hariharan presented this one credit course and the syllabus is passed for approval in Academic council meeting.	-	-
57.	Categorization of courses in Choice Based Credit System - B.E. (ECE) programme	Categorization of courses in Choice Based Credit System of B.E. (ECE) for students joining from the Academic year 2018-19 onwards has been passed for approval in Academic council meeting. The following changes are suggested. <ul style="list-style-type: none"> To allot a slot for "Control Systems" as core course in the B.E. (ECE) Programme curriculum. B.E. (ECE) students should study topics on "Electrical sciences" and "Electrical measurements". 	Dr.S.J.Thiruvengadam	-
58.	General Recommendations of the Board	<ul style="list-style-type: none"> Bridge courses can be arranged for Mathematics course and all other first semester courses for students joining M.E(CS) and M.E(WT) Programmes. 	-	-

Prepared by V.R.Vengatesan Date: 14.07.2018

Approved by S.J.Thiruvengadam Date: 14.07.2018