

**KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION SYSTEMS**

Minutes of the Meeting of the Board of Studies in Electronics and Communication Systems held on 16/4/2015 at 11.00 am in the Department of Electronics and Communication Systems at Karpagam Academy of Higher Education.

**Members Present:**

**1. Dr. R. Saira Banu**

Associate Professor & Head, Dept of ECS,  
Karpagam Academy of Higher Education  
Coimbatore – 641021

**Chair Person**

**2. Dr. R. Prema**

Associate Professor, Dept of ECS,  
Karpagam Academy of Higher Education  
Coimbatore – 641021

**Member (Internal)**

**3. Mr. M. Selvam**

Assistant Professor, Dept of ECS,  
Karpagam Academy of Higher Education  
Coimbatore – 641021

**Member (Internal)**

**4. Mr. A. Sanjay Gandhi**

Assistant Professor, Dept of ECS,  
Karpagam Academy of Higher Education  
Coimbatore – 641021

**Member (Internal)**

**5. Dr. K. Vasudevan**

Prof. and Head, Dept. of Electronics,  
Cochin University of Science and Technology  
Cochin-Kerala.

**Member (External)**

The chairperson welcomed the members of the Board. The Board carefully scrutinized the draft syllabus/syllabi and after detailed discussion the following resolutions were passed.

**Agenda : 1**

1.To consider and approve the Regulations and Syllabus for B.Sc Electronics and Communication Systems UG Programme.

**Resolution: 1**

Resolved to approve the Regulations and Syllabus for following B.Sc Electronics and Communication Systems UG Programme and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure-I).

**Agenda: 2**

1.To consider and approve the Regulations and Syllabus for M.Sc Electronics and Communication Systems PG Programme.

**Resolution: 2**

Resolved to approve the Regulations and Syllabus for M.Sc Electronics and Communication Systems, PG Programme and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure-II).

**Agenda: 3**

To consider and approve the Regulations and Syllabus for M.Phil and Ph.D Programme in Electronics

**Resolution: 3**

Resolved to approve the Regulations and Syllabus for M.Phil and Ph.D Programme in Electronics and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure).

The meeting came to an end with a vote of thanks by the chair.

**B.Sc Electronics and Communication Systems**

The following changes have been made:

- The topic Colpitt's Oscillator and Wein bridge oscillator in the course Electronic Devices and Circuits in Semester I and can be added in the course Linear Integrated Circuits in Semester III.

- In the open elective course Basic Electronics, unit II and unit III can be coupled and Digital Electronics can be added in Unit III.
- In the course Biomedical Instrumentation (Semester VI), Cardiac Monitor and Bedside patient monitoring system topics in Unit III can be removed.
- In the course Instrumentation and control systems (Semester VI), the topic Digital Storage Oscilloscope can be added
- Soft skill development course is included in Semester I to IV
- Environmental Studies course is replaced by Foundation course – B (Environmental Studies) in Semester II.

The following new courses have been introduced.

**Allied –I Electives:**

1. Office Automation
2. C.Programming
3. Visual Programming

**Allied –I Electives Lab:**

1. Office Automation Lab
2. C.Programming Lab
3. Visual Programming Lab

**Allied –II Electives:**

1. Web Technology Lab
2. C++ Programming Lab
3. .Net Programming Lab

**Core Electives I:**

1. VLSI Design
2. PCB Design and Fabrication
3. PSPICE Programming

**Core Electives II:**

1. Robotics and Automation
2. Instrumentation and Control Systems
3. MATLAB Programming

**Open Elective :**

## 1. Basic Electronics

### Additional Courses

1. Electronic Instrumentation

2. Programmable Logic and Distributed Control Systems

- ❖ MEMS and Control Engineering and Digital Signal Processing were introduced for Honors programme.

The UG Programme B.Sc Electronics and Communication Systems consist of 50 courses in which 13 are new courses and 7 courses the changes have been made. The overall change is 41%

### M.Sc Electronics and Communication Systems

The following changes have been made

- In the course Advanced Electronic Circuit Theory (Semester I), unit IV and unit V can be modified.
- The course Automotive Electronics (Semester II) can be modified.
- In the Course MATLAB and Simulink (Semester III), unit III can be modified.
- In the Elective course Analog VLSI Design (Semester III), latest reference books can be added.
- 2 Hours has been allotted for seminar presentation in all three semesters.

The following new courses have been introduced

1. Telecommunication Systems
2. Real Time Operating systems
3. Modern Communication Systems
4. Cryptography and Network Security
5. MATLAB & simulink Programming
6. Mobile Computing

- Computer Communication and Networks have been added as new course for open elective

The PG Programme, M.Sc Electronics and Communication Systems consists of 30 courses in which 6 are new courses and there is change in 5 courses. The total change is 30%

**M.Phil /Ph.D (Electronics)**

- Wireless Communication Systems is added as a new course.

The M.Phil /Ph.D (Electronics) programme consists of 9 courses (three courses removed from 12 courses) The total change is 33.3%.

**Remarks:**

Substantial changes in the content have been brought in BSc [Electronics and Communication Systems] in consonance with changes taking to the respective field and in fact. These courses are tantamount to new courses. All the courses in all programmes focus on employability, entrepreneurship and skill development.



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**REGISTRAR**

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