

## **KARPAGAM ACADEMY OF HIGHER EDUCATION**

**COIMBATORE – 641 021**

Minutes of the meeting of the Board of Studies in Computer Science held on 08.06.2018 at 11.30 am / pm in the Department of Computer Science at Karpagam Academy of Higher Education.

### **Members Present:**

**1.Dr.S.Veni**

**Chairperson**

Professor & Head,  
Department of Computer Science,  
Karpagam Academy of Higher Education  
Coimbatore – 641 021.

**2.Dr.R.Gunasundari**

**Member**

Associate Professor,  
Department of Computer Applications,  
Karpagam Academy of Higher Education  
Coimbatore – 641 021.

**3.Dr.S.Sheeja**

**Member**

Associate Professor,  
Department of Computer Applications,,  
Karpagam Academy of Higher Education  
Coimbatore – 641 021.

**4.Mr.Felix**

**External Member**

Project Manager, CG – VAK,  
Mettupalayam Road,  
Coimbatore

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 following UG programme.

- i. B.Sc Computer Science
- ii. B.Sc Information Technology
- iii. B.Sc Computer Technology



**Resolution: 1**

1. Resolved to approve the Regulations and Syllabus for following UG programme and it comes into effect from 2018-19 (Approved Regulations and Syllabus given in Annexure-I).

i) B.Sc(CS)    ii) B.Sc(IT)    iii) B.Sc(CT)

**Agenda: 2**

1. To consider and approve the Regulations and Syllabus for following PG programme.

i.    M.Sc Computer Science

**Resolution: 2**

1. Resolved to approve the Regulations and Syllabus for following PG programme and it comes into effect from 2018-19 (Approved Regulations and Syllabus given in Annexure-II).

i) M.Sc(CS)

**Agenda: 3**

1. To consider and approve the Regulations and Syllabus for following Research programme.

i.    M.Phil in Computer Science

ii.    Ph.D in Computer Science

**Resolution: 3**

1. Resolved to approve the Regulations and Syllabus for following Research programme and it comes into effect from 2018-19 (Approved Regulations and Syllabus given in Annexure-III).

i) M.Phil    ii) Ph.D

The following changes are made in the existing syllabus and were framed as per the UGC norms.

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



## **B.Sc Computer Science**

The Following **new courses** have been introduced.

1. Computer Networks and Internet Technologies
2. Computer Networks and Internet Technologies - Practical
3. Programming in Visual Basic / Gambas
4. Programming in Visual Basic / Gambas - Practical
5. Software Testing
6. Internet Technologies
7. Information Security and Cyber Law
8. R Programming
9. R Programming - Practical
10. Software Testing - Practical
11. Internet Technologies - Practical
12. Information Security and Cyber Law - Practical
13. Web and E-Commerce Technologies
14. Artificial Intelligence
15. Web and E-Commerce Technologies - Practical
16. Artificial Intelligence - Practical

The UG programme B. Sc., Computer Science consists of 65 courses in which 16 are **new courses**. The overall change is 26 %.

## **B.Sc Information Technology**

The following changes have been made taking employability, entrepreneurship and skill development in to consideration.

- In Programming fundamentals using C/C++ course the topics like pointer, memory allocation are added.
- Developing Programming Logic and Techniques has been removed from syllabus.
- In Programming fundamentals using C/C++ Practical, the list has been updated in Semester I.
- Office Automation – Practical has been removed.
- In English - DRAMA and Composition has been included and Functional English has been removed from syllabus.



- Fundamentals of Web Designing and Internet has been removed.
- Web Designing – Practical has been removed.
- The entire content of the unit in Relational Database Management Systems has been changed.
- Programming in MATLAB and its Practical has been removed.
- Programming with Visual Basic and its Practical has been removed.
- Internet Technologies and its Practical has been removed.
- Computer Graphics and its Practical has been removed.
- In Digital Image Processing course, the topics like Otsu's Method, multivariable thresholding, region – based segmentation, watershed algorithm, use of motion segmentation has been removed.
- The entire program list in Network Programming – Practical has been changed
- Numerical Methods and its Practical has been removed.
- The entire program list in System Programming – Practical has been revamp.

The following new courses have been introduced based on the local and global needs.

1. Computer Fundamentals
2. Computer Fundamentals - Practical
3. Computer Networks and Internet Technologies
4. Computer Networks and Internet Technologies Practical
5. Programming in Python
6. Programming in Python – Practical
7. Programming in PERL
8. Scripting Language
9. Programming in PERL – Practical
10. Scripting Language – Practical
11. Artificial Intelligence
12. Artificial Intelligence – Practical
13. Big Data Analytics
14. Big Data Analytics – Practical



The UG programme B.Sc IT consists of 65 courses in which 14 are new courses and the changes has been made in all the remaining 51 courses. The overall change is approximately 31% .

### **B.Sc Computer Technology**

The following changes have been made taking employability, entrepreneurship and skill development in to consideration.

- In Programming fundamentals using C/C++ course the topics like pointer, memory allocation are added in Semester I.
- In Programming fundamentals using C/C++ Practical, the list has been updated in Semester I.
- Developing Programming Logic and Techniques Course can be replaced with Computer fundamentals in Semester I.
- Office Automation Practical can be replaced with Computer fundamentals Practical in Semester I.
- In English - DRAMA and Composition has been included and Functional English has been removed from syllabus.
- In Digital Image Processing course, the topics like Otsu's Method, multivariable thresholding, region – based segmentation, watershed algorithm, use of motion segmentation has been removed.
- The entire program list in System Programming – Practical has been revamp.
- Database Programming with Oracle(SQL and PL/SQL) and Practical has been removed from the syllabus.
- Programming with Visual Basic and Practical has been removed from the syllabus.
- Computer Networks has been renamed as Data communication Network.
- Computer Networks - Practical has been renamed as Data communication Network - Practical.

The following new courses have been introduced based on the local and global needs.

1. Computer Fundamentals
2. Computer Fundamentals - Practical
3. Computer Networks and Internet Technologies
4. Computer Networks and Internet Technologies Practical
5. Relational Database Management Systems



6. RDBMS – Practical
7. Programming in Python
8. Programming in Python – Practical
9. Artificial Intelligence
10. Scripting Language
11. Artificial Intelligence - Practical
12. Scripting Language - Practical
13. R - Programming
14. R – Programming - Practical
15. Big Data Analytics
16. Big Data Analytics- Practical

The UG programme B.Sc CT consists of 65 courses in which 16 are new courses and the changes has been made in all the remaining 49 courses. The overall change is approximately 32 % .

### **M.Sc Computer Science**

The Following **new courses** have been introduced.

1. Python Programming
2. Big Data Analytics
3. Hadoop - Practical
4. Python Programming - Practical
5. Mongo DB
6. Mongo DB - Practical
7. Internet of Things
8. Artificial Intelligence
9. Machine Learning
10. Neural Networks & Fuzzy Logic
11. Green Computing
12. Web Engineering
13. Software Project Management

The PG programme, M.Sc., Computer Science consists of 28 courses in which 13 are new courses. The total change is 46 %.



**M.Phil/ Ph.D**

- There is no change in the existing syllabus

**Remarks:**

Substantial changes in the content have been brought in **BSc (Computer Science), BSc (Information Technology), BSc (Computer Technology), BCA and M.Sc (Computer Science)** 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.



CHAIR PERSON

Head of the Department  
Department of Computer Science  
Faculty of Arts, Science and Humanities  
Karpagam Academy of Higher Education  
Coimbatore - 641 021, Tamil Nadu, India.



REGISTRAR

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