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**KARPAGAM**  
ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

(Established Under Section 3 of UGC Act, 1956)

# KARPAGAM ACADEMY OF HIGHER EDUCATION

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Pollachi Main Road, Eachanari Post, Coimbatore - 641 021, Tamilnadu, India.

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This is to certify that the enclosed pages (2 to 85) consist of the minutes of the meeting of the Board of Studies conducted during the year 2019 – 2020

|      |           |
|------|-----------|
| Year | 2019-2020 |
|------|-----------|

**REGISTRAR**

**Karpagam Academy of Higher Education**  
(Deemed to be University Under Section 3 of UGC Act 1956)  
Pollachi Main Road, Eachanari Post,  
Coimbatore - 641 021.



ACADEMY OF HIGHER EDUCATION

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KARPAGAM ACADEMY OF HIGHER EDUCATION

COIMBATORE – 641021

Minutes of the meeting of the Board of Studies in Astrology held on 14/03/2019 at 2 p.m. in the Department of Astrology at Karpagam Academy of Higher Education.

Members present:

1. Dr K.P.Vidhyadaran.
2. Dr V.Jayabal
3. Dr S.N.Sivanandam
4. Dr S.Palanisamy
5. Dr V.Lakshmi
6. Dr L.Elumalai
7. Dr Natraj.K

The Chairperson welcomed the members of the board. The board scrutinized the draft syllabus/syllabi and after detailed discussion the following resolutions were passed.

**Agenda 2:**

To consider and approve the Regulations and Syllabus for M.Sc. Applied Astrology programme.

**Resolution 2:**

Resolved to approve the Regulations and Syllabus for M.Sc. Applied Astrology programme and comes into effect from 2019 – 2020(Approved regulations and Syllabus given in Annexure – II).

Proposed Change:

*I Semester:*

Subject code 101 : contents modified and new contents were added.

Unit 1 : History of western Astrology names were added.

Unit 3 : names of Indian Astrologers and Astronomers were added.

Subject code 102 : content modified and new reference books were added.

Subject code 103 : Horary Astrological methods – I

Unit 1,2,3 : Contents were added.

Unit 5 : Astamangala prasna details were added.

Subject code 104 : Rasi – Bhava – Star Constellations – I

Unit 1 : New contents like karagathuva of 12 Bhavas were added and modified.

Unit 3 : Raja yogas were added in this unit. Same of the yogas are removed.

Unit 2,4 : Content were modified

Paper V (105 A) Electives – Numerology – Included books to be referred.

Subject Code 105 C : Saamudrika Lakshanam – Included books to be referred.

The contents for above papers were redrafted.

II Semester:

Subject code 201: Unit 3 – New Indian Astrologers name were added.

Unit 1,4,5 – content were changed.

Subject Code 202: Unit 2,3,5 – Content mentioned, and revised.

Subject Code 203: Unit 1,3,4,5 – Content mentioned and revised.

Subject code 204: Unit 1,3,5 Content added

Subject Code 205 A: Gemmology – Included books to be referred.

Content redesigned.

Subject Code 205 C: Palmistry – Included books to be referred and content modified.

Subject Code 212: Prediction regarding job, business - new practical topics were introduced.

III Semester:

Subject Code 301 – Modern Astrological Methods

Unit 1,2,3,5: Contents were added and modified

Subject Code 302: Units 1,2,4,5 contents were altered.

Subject Code 303: Units 1,3,4 contents redefined.

Subject Code 304: Units 2,3,4 contents redrafted.

Subject Code 305(B) – Ashtavargam : topics were added, contents were modified.

Subject Code 306 C: All the units syllabus redrafted.

For all the above papers, no changes in subject heading but the contents were slightly altered and average percentage content change is 25% .

Ph.D. and M.Phil. theory papers as follows:

Subject Code : 19RAS101 - Research Methodology and Pedagogy

Subject Code : 19RAS201 - Prediction Astrology

Subject Code : 19RAS301 - Special Paper - History of Astrology

Subject Code : 19RAS302 - Special Paper - Predictions in K.P method

Subject Code : 19RAS303 - Special Paper - Western Astrology

Subject Code : 19RAS304 - Special Paper - Marriage matching

Subject Code : 19RAS305 - Special Paper - Case studies in horoscopes

For all the papers content modified and extra reference books were suggested.

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

**KARPAGAM ACADEMY OF HIGHER EDUCATION**

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**DEPARTMENT OF BIOCHEMISTRY**

**BOARD OF STUDIES – 2019-2020**

Minutes of the meeting of the Board of Studies in **BIOCHEMISTRY** held on **3<sup>rd</sup> April, 2019** at **10:00 am** in the **Department of Biochemistry** at Karpagam Academy of Higher Education.

**Members Present:**

1. Dr. K. Devaki, Professor & Head, Department of Biochemistry, KAHE
2. Dr. K. Poornima, Associate Professor, Department of Biochemistry, KAHE
3. Dr. M. Sridhar Muthusami, Assistant Professor, Department of Biochemistry, KAHE
4. Dr. L. Hariprasath, Assistant Professor, Department of Biochemistry, KAHE
5. Dr. D. Selvakumar, Assistant Professor, Department of Biochemistry, KAHE
6. Dr. P. Rani, Professor, Department of Biotechnology, PSG College of Technology, Coimbatore (**Academic Expert**)
7. Dr. C. Arul Raj, Head, Division of Biochemistry, Kuppusamy Naidu Memorial Hospital, Coimbatore (**Industrial Expert**)

The Chairperson welcomed the members of the Board. The Board carefully scrutinized the regulations and syllabi and after detailed discussion the following resolutions were passed.

**Agenda: 1**

To consider and approve the Regulations and Syllabus for UG and PG **BIOCHEMISTRY** programme for the Academic year 2019– 2020.

**Resolution: 1**

Resolved to approve the Regulations and Syllabus for UG and PG Biochemistry programme for the academic year 2019-2020 (Approved changes in syllabus is given in Annexure-I).

**Agenda: 2**

To consider and approve the Syllabus for M.Phil and Ph.D Biochemistry programme for the Academic year 2019-2020.

**Resolution: 2**

Resolved to approve the Syllabus for M.Phil and Ph.D Biochemistry programme and it comes into effect from 2019-2020 (Approved changes in the syllabus are given in Annexure-II).

**Agenda: 3**

To consider and approve the Syllabus for value added courses, “Medical coding” and “Scientific writing” from the Academic year 2019– 2020.

**Resolution: 3**

Resolved to approve the Syllabus for value added courses, “Medical coding” and “Scientific writing” from 2019-2020 and it comes into effect from 2019-2020 (Approved changes in the syllabus are given in Annexure-III).

**Agenda: 4**

To consider and approve the Syllabus for “Biochemistry” as an allied course for UG Microbiology programme for the Academic year 2019– 2020.

**Resolution: 4**

Resolved to approve the Syllabus for “Biochemistry” as an allied course for UG Microbiology programme for the Academic year 2019– 2020 and it comes into effect from 2019-2020. (Approved changes in the syllabus are given in Annexure-IV).

| <b>Change in the syllabi (%)</b>  |           |                    |
|---|-----------|--------------------|
| <b>UG</b>   | <b>PG</b> | <b>M.Phil/Ph.D</b> |
| 8%  | 3%        | 11%                |
| The total number of course in the <b>UG programme Biochemistry</b> consists 52 courses (excluding languages). The change percentage = $435/56 = 8\%$                                |           |                    |
| The total number of course in the <b>PG programme Biochemistry</b> contains 27 courses. There is syllabi change in 8 courses and hence the total change in syllabi is $73/27 = 3\%$ |           |                    |
| <b>One new course was added in M.Phil /Ph.D Biochemistry</b> one course was modified. So the change in syllabi is $100/9 = 11\%$ .  |           |                    |

## ANNEXURE-I

### B.Sc., BIOCHEMISTRY

- Chemistry I (Odd Semester) and Chemistry II (Even Semester) (Both theory and practicals) were included in the curriculum as per the suggestions made in the BoS and academic council meeting.
- In **Protein Purification Techniques (19BCU404B)** - Unit II : Inclusion: Affinity, Ion exchange chromatography – Principle, Instrumentation, and applications. Unit IV: Inclusion: Fast Protein Liquid Chromatography - Principle, Instrumentation, and applications.
- The reference books for the course **Gene Organization Replication and Repair practical (19BCU411)** are included.
- In **Gene Expression and Regulation practical (19BCU412)**, topics like cDNA synthesis are included and suggested readings are altered (17% change).
- The suggested readings have been altered for the following courses **Protein Purification Techniques (19BCU414B)**, **Molecular Basis of Non-Infectious Diseases (19BCU504A)**, **Genetic Engineering and Biotechnology (19BCU612A)**.
- In **Clinical Biochemistry (19BCU501A)** the Thyroid profile, Gastric, Pancreatic, & Intestinal function were added in Unit II. Disorders of thyroid profile and Bilirubin metabolism was added in Unit IV. In Unit V Cancer and specific tumour markers are added (AFB, CEA). The disorders of bilirubin metabolism. Coagulation test are added.
- In **Hormones: Biochemistry and function practical (19BCU511)**, Estimation of Insulin has been included and Estimation of Serum T4 is removed.
- In the course **Biostatistics (19BCU603B)** unit IV is combined with Unit III under correlation and regression. In Unit IV topics like Testing of hypothesis, errors in hypothesis testing, standard errors. In Unit V topics like analysis of variance, one way and two way classifications were added.

## M.Sc., BIOCHEMISTRY

- The redundant topics in **Chemistry of Biopolymers (19BCP101)**, the topics “lipid-Micelles, bilayers and Liposomes” were deleted, as these topics are in **Cellular Biochemistry (19BCP104)** and the topic “Steroids– Plant and animal steroids” were added in Unit III.
- In **Bioinstrumentation and Good Laboratory Practice (19BCP103)**. In Unit II the following topics are included in the syllabus: Principle and applications of gas chromatography, calibration of analytical instruments (HPLC, GC, and ICPMS).
- The suggested readings have been changed for the practical **Quantitative Estimation and Separation Techniques (19BCP111)**.
- In **Bioinformatics (19BCP204)** in Unit 1 the topics “Microbial Genome Database (MBGD), Organism specific Database OMIM/OMIA, Genome browser: NCBI Map viewer, UCSC Browser” were added. In Unit II under the title - sequence alignment some topics like Uniprot Sequence motif database: Prosite and Pfam are included. In Unit III certain titles like Protein Data Bank, Molecular modeling database (MMDB), The secondary structure database, Structural classification of proteins (SCOP), Class Architecture Topology Homology (CATH) were added. In Unit IV topics analysis and prediction of regulatory regions, Probabilistic models: Markov chain-random walk- Hidden markov models were included. In Unit V the titles like Docking Principles and methods were included in the syllabus. Suggested readings for the course were updated.
- In Practical **Biological Databases and Analysis (19BCP212)** certain experiments like Homolgy modeling using Swiss Model, Active site & Pocket prediction, Molecular Docking using PATCH DOCK, Retrive Drug molecule using PubChem are added.
- In **Immunology (19BCP301)** in Unit II the title has been altered as Antigen and Antibody. In Unit IV, the topic like Monoclonal antibodies production and applications have been replaced by Monoclonal antibodies production and applications have been replaced by Monoclonal antibodies - production of monoclonal and polyclonal antibodies- genetically engineered antibodies. In Unit V, the topics like Experimental animal models was added.

## **ANNEXURE-II**

### **MPhil/PhD Biochemistry**

A special paper “**Fish Nutrition and Tissue culture**” (19RBC301G) has been included in the special paper list for the academic year 2019– 2020.

## **ANNEXURE-III**

### **Value added courses**

Value added courses “**Medical coding**” and “**Scientific writing**” has been adopted for the academic year 2019– 2020.

## **ANNEXURE – IV**

### **Allied Biochemistry Course**

In UG Microbiology – A course on **Biochemistry (19MBU103)** which is offered by **Biochemistry department** in which Unit 1 is removed. Unit II, III and IV is considered as Unit I, II and III. In Unit III Oligopeptides and its subtopics are removed. Enzymes added as separate Unit IV, in which mechanism of enzymes is renamed as specificity of enzymes. Topics like  $K_m$  equation and enzyme activity are removed and replaced by Michaelis-Menten equation,  $K_m$ ,  $V_{max}$ , isoenzymes. In Unit IV, Vitamins topic and Unit V Aminoacyl tRNA synthetase, Keto-enol tautomerism and their consequences are removed.

**KARPAGAM ACADEMY OF HIGHER EDUCATION**  
COIMBATORE – 641 021

Minutes of the meeting of the **Board of Studies** in **Biotechnology** held on **April 13, 2019** at **11.00 am** in the **Department of Biotechnology, FASH** at Karpagam Academy of Higher Education.

**Members Present:**

1. **Dr. Prabu, G.R.,**  
Associate Professor & Head (i/c), Department of Biotechnology,  
Faculty of Arts, Science and Humanities,  
Karpagam Academy of Higher education, Coimbatore – 641 021
2. **Dr. R. Thilagavathy,**  
Associate Professor & Head (i/c), Department of Biotechnology,  
Faculty of Engineering,  
Karpagam Academy of Higher Education, Coimbatore – 641 021
3. **Dr. R. Usha,**  
Associate Professor, Department of Microbiology, FASH,  
Karpagam Academy of Higher Education, Coimbatore – 641 021
4. **Dr. A. Sangilimuthu,**  
Assistant Professor, Department of Biotechnology, KAHE, Coimbatore – 641 021
5. **Dr. P. Rajiv,**  
Assistant Professor, Department of Biotechnology, KAHE, Coimbatore – 641 021
6. **Dr. A. Gnanamani,**  
Principal Scientist, Biological Material Laboratory,  
CSIR – Central Leather Research Institute, Adyar, Chennai
7. **Dr. A. Balamurugan,**  
Manager, Field Research & Product Promotion – Exports,  
Research & Development – Agri, T. Stanes Company Limited,  
8/23-24, Race Course Road, Coimbatore – 641 018

The Chairperson welcomed the members of the Board. Leave of absence granted to Dr. A. Balamurugan and Dr. P. Rajiv. 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 **UG (B.Sc., Biotechnology)** programme for the academic year 2019-2020.

**Resolution: 1**

1. Resolved to amend the corrections/ modifications and approve the Regulations and Syllabus for **UG (B.Sc., Biotechnology)** programme and it comes into effect from **2019-2020** (Approved Regulations and Syllabus given in **Annexure-I**).

**Agenda: 2**

1. To consider and approve the Regulations and Syllabus for **PG (M.Sc., Biotechnology)** programme for the academic year 2019-2020.

**Resolution: 2**

1. Resolved to amend the corrections/ modifications and approve the Regulations and Syllabus for **PG (M.Sc., Biotechnology)** programme and it comes into effect from **2019-2020** (Approved Regulations and Syllabus given in **Annexure-II**).

**Agenda: 3**

1. To consider and approve the Regulations and Syllabus for **M.Phil/Ph.D., Biotechnology** programme for the academic year 2019-2020.

**Resolution: 3**

1. Resolved to approve the Regulations and Syllabus for **M.Phil/Ph.D., Biotechnology** programme and it comes into effect from **2019-2020**. (Approved Regulations and Syllabus given in **Annexure-III**).

## **Annexure – I**

### **B.Sc (Biotechnology)**

**The following corrections and suggestions is included in B.Sc (Biotechnology) syllabus (2019-2020)**

The expert members have suggested to include the following aspects in the curriculum

In regard to the syllabus for **B.Sc., Biotechnology** programme for the academic year 2019-2020 and based on the feedbacks received from the faculty members, panel members have suggested the following suggestions and corrections to include in the syllabus.

Percentage of Change in syllabus 1.12 %.

The changes made in the syllabus will impart better understanding in the aspect of core biotechnology modules, function to develop students with better entrepreneurship ability.

## **Annexure – II**

### **M.Sc (Biotechnology)**

#### **The following corrections and suggestions is included in M.Sc (Biotechnology) syllabus (2019-2020)**

The expert members have suggested to include the following aspects in the curriculum and syllabus by matching with the current need of improvement and also the syllabus of all India level competitive examinations.

In regard to the syllabus for **M.Sc., Biotechnology** programme for the academic year 2018-2019 (III, IV semesters) and for the academic year 2019-2020, panel members have suggested the following suggestions and corrections to include in the curriculum and syllabus.

#### **Semester – I**

Suggested to change the title of the course, Biochemistry and Metabolism (18BTP101) as Fundamentals of Biochemistry and Microbiology (19BTP101).

- Change of Unit I title as Biomolecules.
- Change of Unit IV title as Microbial Classification, Diversity and techniques.
- Inclusion of the following contents as microbial applications in Unit V, Microbes - Biomass production (Single Cell Protein), Industrially application (Antibiotics)

#### **Bioinstrumentation and Biostatistics (19BTP104)**

- Change of Unit I title as Colorimetry and Spectroscopy.
- Addition of LC-MS in unit I.
- Addition of topics, g and RPM value Centrifugation part in Unit II.
- Inclusion of image analysis topic in Unit III
- Re-arrangement and inclusion of the theoretical concepts from Unit V to Unit IV.
- Inclusion of softwares – SPSS and other softwares in Unit V.
- Inclusion of case studies in Unit V in order to provide the practical applications of biostatistics.

#### **Biodiversity, Biosafety and IPR (19BTP105A)**

- Re-ordering of the Units in the following order – Unit I – Biodiversity; Unit – II – Bioethics; Unit III – Biosafety; Unit IV - Intellectual Property Rights; Unit V – Patent applications.
- Addition of International patent guidelines unit 5.
- Inclusion of National Biodiversity Authority topic in Unit I.
- Inclusion of International Patent guidelines in Unit IV.

### **Nanobiotechnology (19BTP105B)**

- Inclusion of nanobiotechnology concept related topics in Unit I
- Inclusion of Synthesis and Characterization topics as Unit II
- Change of Unit topic and contents related to Nano biotechnology and Biomedical in Unit III.
- Inclusion of Nano biotechnology and Agriculture as Unit IV.
- Inclusion of Nanotechnology and Environment as Unit V.

### **Biochemistry and metabolism Practical (19BTP111)**

- Inclusion of Turbidity cell counting with reference to dilution and Biomass estimation in Growth curve - Experiment No. 4 under Microbiology.

### **Cell Biology and Molecular Genetics - Practical – II (19BTP112)**

- Inclusion of Plasmolysis in cell permeability experiment.

### **Semester – II**

#### **Fermentation and Bioprocess Technology (19BTP202)**

- Change of the unit order - Unit IV and V as Unit V and IV, respectively RSM should be added
- Addition of RSM topic in kinetics (Unit IV)

#### **Pharmaceutical Biotechnology (19BTP205A)**

- Addition of Pharmacokinetics in Unit II
- Removal of gene therapy in unit III

#### **Agricultural Biotechnology (19BTP205B)**

- Remove Biodegradable plastics topic in Unit V.

#### **Industrial Toxicology(19BTP205C)**

- Re-ordering of Unit III and IV as Unit IV and III, respectively.

Percentage of Change in syllabus 25.8%

The refined syllabus is accordingly for students to prepare for the competitive exams (CSIR, NET)

### **Annexure – III**

#### **M.Phil/Ph.D., Biotechnology**

#### **M.Phil/Ph.D., Biotechnology programme**

In regard to the syllabus for **M.Phil/Ph.D., Biotechnology** programme, **no corrections** have been suggested in the syllabus and also suggested to follow the previous year (2018-19) curriculum and syllabus of **M.Phil/Ph.D., Biotechnology** programme for the academic year 2019-2020.

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

**KARPAGAM ACADEMY OF HIGHER EDUCATION**

**COIMBATORE 641021**

**Minutes of the meeting of the Board of Studies in chemistry held on 20-3-2019 at 10.30 am in Department of Chemistry at Karpagam Academy of Higher Education**

1. Dr.S.Ravi  
Professor & Head,  
Department of Chemistry,  
Karpagam Academy of Higher Education,  
Coimbatore. Chair person
2. Dr.K.J.Rajendra Prasad  
Emeritus Professor,  
Department of Chemistry,  
Bharathiar University  
Coimbatore. External Member
3. Mr. Siva shanmugam  
Polyhedron Laboratories (P) Ltd.,  
49/12 4<sup>th</sup> Cross West,  
Ganapathy Nagar,  
Collectroate post  
Erode 638 011, Tamilnadu External Member
4. Dr.A.Kathiresan  
Professor in Chemistry (S & H)  
KAHE, Coimbatore. Member
5. Dr.K.Shankar  
Professor in Chemistry (S & H)  
KAHE, Coimbatore. Member
6. Dr.A.Thangamani  
Assistant Professor,  
Department of Chemistry,  
Karpagam Academy of Higher Education,  
Coimbatore. Member
7. Dr.M.R.Ezhilarasi  
Department of Chemistry,  
Karpagam Academy of Higher Education,  
Coimbatore. Member
8. Dr.S.P.Rajendran,  
Adjunct Professor  
Department of Chemistry,  
Karpagam Academy of Higher Education,  
Coimbatore Special Invitee

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**

To consider and approve the Regulations and syllabus for B.Sc Chemistry Programme for the Academic year 2019-2010.

**Resolution 1**

Resolved to approve the Regulations and syllabus for B.Sc Chemistry Programme and it comes into effect from 2019-20 (Approved syllabus given in Annexure I)

**Agenda: 2**

To consider and approve the Regulations and syllabus for M.Sc Chemistry Programme for the Academic year 2019-2020.

**Resolution 2**

Resolved to approve the Regulations and syllabus for M.Sc Chemistry Programme and it comes into effect from 2019-2020 (Approved syllabus given in Annexure II)

**Agenda: 3**

To consider and approve the Regulations and syllabus for M.Phil /Ph.D Programme in Chemistry for the Academic year 2019-2020.

**Resolution 3**

Resolved to approve the Regulations and syllabus for M.Phil /Ph.D Programme in Chemistry and it comes into effect from 2019-2020 (Approved syllabus given in Annexure V)

**Annexure I**

1. Physical Chemistry I: States of Matter and Ionic Equilibrium (18CHU102) and Physical Chemistry I: States of Matter and Ionic Equilibrium practical (18CHU112) has been shifted to the sixth semester as Physical Chemistry I: States of Matter and Ionic Equilibrium (19CHU603) and Physical Chemistry I: States of Matter and Ionic Equilibrium practical (19CHU613)
2. Mathematics I (18CHU301) and Mathematics I Practical(18CHU311) has been shifted from Semester III to Semester I as Mathematics I (19CHU101) and Mathematics I Practical (19CHU111).
3. Inorganic Chemistry II:Metallurgy, s-block and p-block Elements (18CHU202) and Inorganic Chemistry II:Metallurgy, s-block and p-block Elements practical (18CHU212) has been shifted from semester II to Semester V Inorganic Chemistry III: Inorganic Chemistry II:Metallurgy, s-block and p-block Elements (19CHU504) and Inorganic Chemistry III: Inorganic Chemistry II:Metallurgy, s-block and p-block Elements practical (19CHU514).

4. Mathematics II (18CHU401) and Mathematics II practical (18CHU411) has been shifted from semester IV to semester II as Mathematics II (19CHU201) and Mathematics II practical (19CHU211)
5. Physics- I (18CHU501) and Physics- I practical (18CHU511) has been shifted from semester V to Semester III as Physics- I (19CHU301) and Physics- I practical (19CHU311)
6. Physics- II (18CHU601) and Physics- II practical (18CHU611) has been shifted from semester VI to Semester IV as Physics- II (19CHU401) and Physics- II practical (19CHU411).

## **Annexure II**

No changes has been made in PG syllabus.

## **Annexure III**

- Paper III: Special Paper I: Organic Chemistry (19RCH301)
- In Unit II –Modern reagents in Organic Synthesis, the following reagents were included. NBS, DDQ, DIBAL, DBU
- Paper III: Special Paper II: Physical Organic Chemistry (19RCH302)  
In UNIT IV Barton reaction,

## **UG Programme:**

The UG programme for B.Sc Chemistry consists of 65 courses out of which 3 are languages and general courses. There is a syllabus change in 12 courses and hence total change =  $12/62 * 100 = 19.35\%$

## **PG Programme**

The PG programme for M.Sc Chemistry consists of 28 courses. There is no syllabus change in the courses.

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

**KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE – 641 021**

Minutes of the meeting of the Board of Studies in Commerce held on **16.04.2019** at **10.00 am** in the **Department of Commerce** at Karpagam Academy of Higher Education.

**Members Present:**

1. Dr.S.S.Shanthakumari, Professor & Head - Chair Person  
Department of Commerce  
Karpagam Academy of Higher Education  
Coimbatore – 641 021.
2. Dr. K. Jothi, Associate Professor - Member  
Department of Commerce  
Karpagam Academy of Higher Education  
Coimbatore – 641 021.
3. Dr. Seethadevi, Associate Professor - Member  
Department of Commerce  
Karpagam Academy of Higher Education  
Coimbatore – 641 021.
4. Dr. R. Velmurugan, Associate Professor - Member  
Department of Commerce  
Karpagam Academy of Higher Education  
Coimbatore – 641 021.
5. Dr. N. Sumathi, Assistant Professor - Member  
Department of Commerce  
Karpagam Academy of Higher Education  
Coimbatore – 641 021.
6. Dr. K. Uthaya Suriyan, Professor - Member  
Department of International Business  
Alagappa University, Karaikudi.
7. Mr. Vetrivel, Secretary - Member  
Insurance Institute of India  
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**

To consider and approve the Regulations and Syllabus for **B.Com., B.Com.(CA), B.Com.(PA)**, Programme of 2019 batch for I,II,III, IV, V and VI Semester and for **B.Com.(BPS)** Programme of 2019 batch for I,II Semester.

**Resolution: 1**

Resolved to approve the Regulations and Syllabus for I,II,III, IV, V and VI Semester of **B.Com. B.Com.(CA), B.Com.(PA)** Programme of 2019 – 2020 batch it comes into effect from 2019-20. Also resolved to approve the Modified Syllabus for B.Com (BPS) Programme of 2019 batch for I and II semester and it comes into effect from 2019-20 (Approved Regulations and Syllabus given in Annexure-I).

**Agenda: 2**

To consider and approve the Syllabus for **M.Com. (CA)** Programme 2019-20 Batch.

**Resolution: 2**

Resolved to approve the Syllabus of 2019-20 Batch for **M.Com. (CA)** Programme and it comes into effect from 2019-20 (Approved Regulations and Syllabus given in Annexure-II).

**Agenda: 3**

To consider and approve the Syllabus of 2019-20 Batch for **M.Com.** Programme.

**Resolution: 3**

Resolved to approve the Syllabus of 2019-20 Batch for **M.Com.** Programme for I / II/ III/ IV Semester and it comes into effect from 2019-20 (Approved Regulations and Syllabus given in Annexure-II).

**Agenda : 4**

To consider and approve the Syllabus for **MPhil/Ph.D (Commerce)** programme.

**Resolution : 4**

Resolved to approve the Syllabus for **MPhil/Ph.D (Commerce)** programme and it comes into effect from 2019-20(Aproved Syllabus given in Annexure-II).

**Annexure-I**  
**B.Com (2019-20 Batch)**

**Semester I**

No Changes in the Syllabi

**Semester II**

No Changes in the Syllabi

**Semester III**

No Changes in the Syllabi

**Semester IV**

No Changes in the Syllabi

**Semester V**

No Changes in the Syllabi

**Semester VI**

No Changes in the Syllabi

**B.Com (CA) 2019-20**

**Semester I** - No Changes in the Syllabi

**Semester II**- No Changes in the Syllabi

**Semester III** - No Changes in the Syllabi

**Semester IV** -No Changes in the Syllabi

**Semester V** -No Changes in the Syllabi

**Semester VI** -No Changes in the Syllabi

- ❖ All the courses were focused towards employment, entrepreneurship and skill development.
- ❖ Overall changes made approximately 0 %.

## **B.Com (PA)**

### **B.Com. (Professional Accounting) 2019-20**

**Semester I** - No Changes in the Syllabi

**Semester II**- No Changes in the Syllabi

**Semester III** - No Changes in the Syllabi

**Semester IV** -No Changes in the Syllabi

**Semester V** -No Changes in the Syllabi

**Semester VI** -No Changes in the Syllabi

## **B.Com (BPS) (2019-20 Batch)**

### **Semester I**

- ❖ The course Business law can be removed and Management organization Behaviour can be shifted from Sem V to Sem I.
- ❖ The six credit of Management and Organization Behaviour can be splitted into five credit of theory Management and Organization Behaviour (19BPU102) and one credit of practical Management and Organization Behaviour Practical (19BPU111).

### **Semester II**

- ❖ The Course Corporate Accounting can be shifted to Sem IV and Finance and services for Business Process Services can be shifted to sem II from Sem III.
- ❖ The course Business mathematics and statistics can be replaced with Business Analytics.
- ❖ The six credit of Finance and services for Business Process Services can be splitted into five credit of theory Finance and services for Business Process Services (19BPU201) and one credit of practical Finance and services for Business Process Services Practical (19BPU211).

### **Semester III (2019-2020 )**

- ❖ Cost accounting can be offered as a separate course
- ❖ Auditing and Corporate Governance and its Practical course can be removed and Principles of Auditing Theory and Practical can be introduced
- ❖ Corporate Law course can be removed and company law course can be introduced

### **Semester V (2019-2020 )**

- ❖ Income Tax Law and Practice course can be removed and services marketing course can be introduced

- ❖ Business Process Services in Capital Market practical course can be removed
- ❖ Management Accounting practical course can be removed
- ❖ Managing Business Processes – I practical course can be removed
- ❖ In Marketing Management course, Unit V contents can be modified
- ❖ Business economics practical course can be removed
- ❖ Management Information System practical course can be removed

### **Semester VI (2019-2020)**

- ❖ Human Resource Practical course can be removed
- ❖ Managing Business Processes – II practical course can be removed
- ❖ Strategic Management practical course can be removed
- ❖ Indirect Taxation practical course can be removed
- ❖ In Entrepreneurship course contents on women entrepreneurship can be included in Unit III. Various institutional support for entrepreneurs can be included in Unit V.
- ❖ Project course can be included

Percentage change made is approximately 37.69%

## **Annexure – III**

### **M.Com (2019 Batch)**

#### **Semester I**

- ❖ Corporate Finance Course can be transferred from First semester to Second Semester and Management Accounting Course can be transferred from third semester to first Semester and all units have been modified.
- ❖ Operations Research course can be transferred from first semester to second semester and Statistical Analysis course can be introduced.
- ❖ Financial Markets and Institutions course can be transferred from first semester to second semester and Indian Financial System course can be introduced.
- ❖ Marketing Management course can be removed and Consumer Behaviour course can be transferred from third semester to first semester.
- ❖ Human Resource Development course can be transferred from first semester to third semester
- ❖ Human Resource Development course can be transferred from first semester to third semester and Corporate Law course can be introduced.
- ❖ Computer Application in Business Practical course can be removed and Computer Application for Accounting Practical course can be introduced.

#### **Semester II**

- ❖ Applied Cost Accounting course can be removed and Corporate Finance Course can be transferred from First semester to Second Semester.
- ❖ Retail Management course can be removed and Operations Research course can be transferred from first semester to second semester.
- ❖ Advanced cost Accounting course can be introduced and Insurance and Risk Management course can be transferred from second semester to third semester.
- ❖ Financial Markets and Institutions course can be transferred from first semester to second semester

- ❖ Strategic Human Resource Management course can be renamed as Human Resource Management course.
- ❖ Advertising and Sales Promotion course can be treated as elective course in the same semester.
- ❖ Tally Practical course can be removed and Advanced Excel for Business practical course can be introduced.

### **Semester III**

- ❖ Management Accounting Course can be transferred from third semester to first Semester and International Accounting course can be introduced.
- ❖ Business Environment course can be removed and Investment Banking and Financial Services course can be introduced.
- ❖ International Financial Management course can be removed and Insurance and Risk Management course can be transferred from second semester to third semester.
- ❖ Human Resource Development course can be transferred from first semester to third semester and Consumer Behavior course can be transferred from third semester to first semester.
- ❖ Labour Legislation course can be removed and Retail Management transferred from second semester to third semester.
- ❖ International Business course can be introduced and Financial Services course can be removed.

### **Semester IV**

- ❖ Corporate Administration and Secretarial Practice course can be removed and Corporate Governance, Ethics & Social Responsibility course can be introduced.
- ❖ Entrepreneurship and Small Business Management course can be removed and Entrepreneurial Development course can be introduced.
- ❖ Project can be introduced.

Percentage change made is approximately 69 %

### **Annexure - IV**

#### **M.Phil / Ph.D (Commerce) (2019 Batch)**

- ❖ No Changes in the Syllabi

## Board of Studies 2019-2020

Minutes of the meeting of the Board of Studies in Computer Science, Applications & IT held on 27-03-2019 at 10.00 am in the Department of CS, CA & IT at Karpagam Academy of Higher Education.

### Members Present:

1. Dr. S. Veni Chair Person  
Professor and Head,  
Department of CS, CA & IT  
Karpagam Academy of Higher Education  
Coimbatore - 641021
2. Dr. R. Gunasundari Member  
Associate Professor  
Department of CS, CA & IT  
Karpagam Academy of Higher Education  
Coimbatore - 641021
3. Dr. S. Sheeja Member  
Associate Professor  
Department of CS, CA & IT  
Karpagam Academy of Higher Education  
Coimbatore - 641021
4. Dr. Vasantha Kalyani David External member  
Professor  
Department of Computer Science  
Avinashilingam Institute for Home Science and Higher Education for Women  
Coimbatore - 641043
5. Mr. P.S. 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 of the Syllabus for the following UG Programme.
  - i. BCA

### **Resolution 1:**

1. Resolved to approve the regulations and syllabus for the following UG Programme and it comes into effect from 2019 to 2020 (Approved regulations and syllabus given Annexure-I).
  - i. BCA

### **Agenda 2:**

1. To consider and approve the Regulations of the Syllabus for the following PG Programme.
  - i. MCA

### **Resolution 2:**

1. Resolved to approve the regulations and syllabus for the following PG Programme and it comes into effect from 2019 to 2020 (Approved regulations and syllabus given Annexure-II).
  - i. MCA

### **Bachelor of Computer Applications (2018-2019 Batch)**

- Syllabus framed for 2018-2019 batch will be followed for 2019-2020 Batch.

The UG programme, BCA consists of 65 courses. There were no new courses added in the syllabus and **no changes** in the syllabi.

### **Master of Computer Applications(2018-2019 Batch)**

- Syllabus from 2018-2019 will be followed for 2019-2020 Batch.

The PG programme, MCA consists of 65 courses. There were no new courses added in the syllabus and **no changes** in the syllabi.

KARPAGAM ACADEMY OF HIGHER EDUCATION

COIMBATORE – 641 021

Minutes of the meeting of the Board of Studies in Computer Science held on 27-03-2019 at 10.00 am in the Department of Computer Science at Karpagam Academy of Higher Education.

Members Present:

- |   |                 |
|---|-----------------|
| 1. Dr.S. Veni<br>Professor and Head,<br>Department of Computer Science<br>Karpagam Academy of Higher Education<br>Coimbatore - 641021   | Chair Person    |
| 2. Dr. R. Gunasundari<br>Associate Professor<br>Department of Computer Applications,<br>Karpagam Academy of Higher Education<br>Coimbatore - 641021                             | Member          |
| 3. Dr. S.Sheeja<br>Associate Professor<br>Department of Computer Applications<br>Karpagam Academy of Higher Education<br>Coimbatore - 641021                                    | Member          |
| 4. Dr. Vasantha Kalyani David<br>Professor<br>Department of Computer Science<br>Avinashilingam Institute for Home Science and Higher Education for Women<br>Coimbatore - 641043 | External member |
| 5. Mr. P.S.Felix<br>Project Manager<br>CG-VAK<br>Mettupalayam Road<br>Coimbatore  | External Member |

The Chairperson welcomed the members of the Board. Leave of absence granted to Dr. Arunkumar Thangavelu, Professor, School of Computer Science, VIT, Vellore. The Board carefully scrutinized the draft Regulations and syllabi and after detailed discussion the following resolutions were passed.

**Agenda: 1**

To consider and approve introduction of B.Sc(CS) with cognitive systems under Faculty of Arts, Science and Humanities (FASH) from the Academic year 2019 - 2020.

**Resolution: 1**

Resolved to approve the introduction of B.Sc(CS) with cognitive systems under Faculty of Arts, Science and Humanities (FASH) from the Academic year 2019 - 2020.

**Agenda: 2**

To consider and approve the Regulations and Syllabus for the following UG programme for the academic year 2019-2020,

- i. B.Sc Computer Science
- ii. B.Sc Information Technology
- iii. B.Sc Computer Technology
- iv. B.Sc Computer Science with Cognitive Systems

**Resolution: 2**

Resolved to approve the Regulations and Syllabus for the following UG programme and it comes into effect from 2019-2020 (Approved Syllabus given in Annexure-I).

- i. B.Sc Computer Science
- ii. B.Sc Information Technology
- iii. B.Sc Computer Technology
- iv. B.Sc Computer Science with Cognitive Systems

**Agenda: 3**

To consider and approve the Regulations and Syllabus for the following PG programme for the academic year 2019-2020,

- i. M.Sc Computer Science

**Resolution: 3**

Resolved to approve the Regulations and Syllabus for the following PG programme and it comes into effect from 2019-2020 (Approved Syllabus given in Annexure-II).

- i. M.Sc Computer Science

**Agenda: 4**

To consider and approve the Regulations and Syllabus for the following research programme for the academic year 2019-2020,

- i. M.Phil in Computer Science
- ii. Ph.D in Computer Science

**Resolution: 4**

Resolved to approve the Regulations and Syllabus for the following research programme and it comes into effect from 2019-2020(Approved Syllabus given in Annexure-III).

- i. M.Phil in Computer Science
- ii. Ph.D in Computer Science

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

### **BSc Computer Science (Cognitive Systems)**

A new programme BSc (Computer Science with Cognitive Systems) is introduced for the batch 2019-2020. The syllabus is framed along with collaboration of Tata Consultancy Services.

### **B.Sc Computer Science (2019-2020 Batch)**

- Syllabus framed for 2018-2019 academic year will be followed for 2019-2020 Batch

### **B.Sc Information Technology**

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

- The content of unit in Environmental Studies has been updated.
- Programming in Java – Content of Servlet and Swing may be removed.
- The program list in Programming in Java – Practical has been c
- In semester III, Programming in MATLAB course to be replaced by Programming in Python theory and Practical
- In semester IV, Programming with Visual Basic to be replaced by Programming in PERL.
- Internet Technologies courses has be replaced with scripting languages in Semester IV
- Computer networks course has been replaced with Data Communications and Networks.

The UG programme B.Sc IT consists of 65 courses in which all the courses the changes has been made. The overall change is approximately 7%.

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

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

- ∗ The content of unit in Environmental Studies has been updated.
- ∗ Programming in Java – Content of Servlet and Swing to be removed.
- ∗ The content of the unit of Discrete Structure course has been changed.
- ∗ In Semester III, Programming with Visual Basic course to be replaced by Relational Database Management System.
- ∗ Computer Network course has been replaced with Data Communications and Networks.
- ∗ Programming in MATLAB course to be replaced by Programming in PYTHON.
- ∗ In semester IV, Internetworking with TCP/IP course to be replaced by Internet of Things.
- ∗ Hyper Text Markup Language course to be replaced with Scripting Language course.

The UG programme B.Sc CT consists of 65 courses in which all the courses the changes has been made. The overall change is approximately 7%.

### **MSc (Computer Science)**

- ∗ Syllabus framed for 2018-2019 academic year will be followed for 2019-2020 Batch.

### **M.Phil / Ph.D (Computer Science)**

The following changes have been made:

- ∗ Unit-V has been replaced in the Research Methodology and Pedagogy course.

The following is added as a new elective course

1. Cyber Security.

The M.Phil / Ph.D (Computer Science) programme consists of 13 courses in which one new course is added. The total change is 17 %.

### **Remarks:**

All the courses in all programmes focus on employability, entrepreneurship and skill development.

**KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE – 641 021**

Minutes of the meeting of the Board of Studies in Management held on **12.04.2019** at **10.00 am** in the **Department of Management** at Karpagam Academy of Higher Education.

**Members Present:**

1. Dr.S.S.Shanthakumari - Professor & Director - Chair Person
2. Dr. A. Dharmaraj - Assistant Professor - Member
3. Dr. C. Sagunthala - Assistant Professor - Member
4. Dr. V. Krishnaveni - Assistant Professor - Member
5. Dr. S. Mahalingam -Professor - Member  
BSMED, Coimbatore
6. Mr. R. Muthukumar - Manager - Member  
LEDDA International  
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 Syllabus of 2019-20 Batch of **M.Phil/Ph.D**programme.

**Resolution: 1**

1. Resolved to approve the Syllabus of 2019-20 Batch of **M.Phil/Ph.D**programme and it comes into effect from 2019-20 (Approved Syllabus given in Annexure-I).

**Agenda: 2**

1. To consider and approve the syllabus of 2019-20 Batch for I/II/III/IV Semester of **MBA**programme.

**Resolution: 2**

1. Resolved to approve the Syllabus of 2019-20 Batch for I/II/III/IV of **MBA**programme and it comes into effect from 2019-20 (Approved Syllabus given in Annexure-II).

**Agenda: 3**

1. To consider and approve the Syllabus of 2019-20 Batch for I/II/III/IV/V/VI Semester of **BBA** programme.

### **Resolution:3**

1. Resolved to approve the Syllabus of 2019-20 Batch for I/II/III/IV/V/VI Semester of **BBA** programme and it comes into effect from 2019-20 (Approved Syllabus given in Annexure-III).

- In all the courses without changing the title of the course, substantial changes (20 to 30 percent change) have been made with respect to the content of the courses and all the courses are considered as new courses.
- All the courses were focused towards employability, entrepreneurship and skill development.

### **Annexure- I**

No changes in the Syllabi of MPhil/Ph.D (Management) Programme.

### **Annexure-II**

#### **MBA Syllabus Change for 2019-20**

The course Management Principles and Organizational Behavior is combined together as one course (19MBAP101)

The course Business Communication (19MBAP102) is introduced.

The course Materials Management (19MBAPO402B) is introduced.

### **Annexure-III**

#### **BBA Syllabus Change for 2019-20**

1. In the First semester, Business Accounting (19BAU102) and Fundamentals of Management and Organizational Behaviour (Practical) (19BAU111)
2. **In the Second semester, Managerial Economics (Practical)(9BAU211) course was newly introduced**
3. **In the Third semester, IT Tools for Business 19BAU304B (19BAU304A), E- Commerce (19BAU304B), IT Tools for Business (Practical)(19BAU314A) and E-Commerce (Practical) (19BAU314B) courses were newly introduced**
4. **In the Fourth semester, Legal Aspects for Business (19BAU401)and Legal Aspects for Business (Practical)(19BAU411) courses were newly introduced**

5. In the Fifth semester, International Trade Procedures and Documentation (19BAU503A) and International Trade Procedures and Documentation (Practical) (19BAU513A) courses were newly introduced

### **Semester I**

0. In the first semester, Business Accounting (19BAU102) course, unit IV and unit V were totally replaced with capital and revenue and Bank reconciliation statement concepts respectively
- 7 The course Financial Accounting can be shifted from Semester II to Semester I and renamed as Business Accounting (19BAU102).
- 8 The six credits of Fundamentals of Management and Organizational Behavior can be splitted into five credit of theory Fundamentals of Management and Organizational Behavior (19BAU101) and one credit of practical Fundamentals of Management and Organizational Behavior (Practical) (19BAU111).
- 9 The course MS Office (Practical) (18BAU111) can be replaced Financial Software Package (Practical) (19BAU112).

### **Semester II**

10. The course Managerial Economics (19BAU201) can be shifted to Semester II from Semester I
11. The six credits of Managerial Economics can be splitted into five credit of theory Managerial Economics (19BAU201) and one credit of practical managerial economics (Practical) (19BAU211).
12. The course Business Mathematics and Statistics can be replaced with Statistics for Business Decisions (19BAU202).

### **Semester III**

13. The Course English –III can be removed.
14. The course Human Resource Management can be given as core paper instead of elective in Semester III and in replace of the elective, IT Tools for Business (19BAU304A) can be given.
15. The Course Management Information System theory and practical can be replaced with E-Commerce (19BAU304B) and E-Commerce (Practical) (19BAU314)..
16. The four credits of IT Tools for Business can be splitted into two credit of theory IT Tools for Business (19BAU304A) and two credit of practical IT Tools for Business (Practical) (19BAU313).

## **Semester IV**

17. The Course English –IV can be removed.

Finally the members of the Board of Studies in Management authorized the chairperson to incorporate changes if necessary.

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

The percentage of changes in UG programme BBA is 19.26%.

The percentage of changes in PG programme MBA is 5.66%.

The percentage of changes in M.Phil/Ph.D programme (Management) is 0%.

**KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE – 641 021**

Minutes of the meeting of the Board of Studies in Mathematics held on 01.04.2019 at 11.30 am in the Department of Mathematics at Karpagam Academy of Higher Education.

**Members Present:**

- |   |             |
|---|-------------|
| 1. Dr. M.M.Shanmugapriya<br>Assistant Professor & Head (i/c)<br>Department of Mathematics<br>Karpagam Academy of Higher Education<br>Coimbatore – 21.                     | Chairperson |
| 2. Dr. P.T.Hemamalini<br>Professor & Head<br>Department of Science and Humanities<br>Karpagam Academy of Higher Education<br>Coimbatore – 21.                             | Member      |
| 3. Mr.M.Jeganathan<br>Assistant Professor<br>Department of Mathematics<br>Karpagam Academy of Higher Education<br>Coimbatore – 21.  | Member      |
| 4. Dr.K.Kalidass<br>Assistant Professor<br>Department of Mathematics<br>Karpagam Academy of Higher Education<br>Coimbatore – 21.  | Member      |
| 5. Mr.U.R.Ramakrishnan<br>Assistant Professor<br>Department of Mathematics<br>Karpagam Academy of Higher Education<br>Coimbatore – 21.                                    | Member      |
| 6. Mr.V.Karthikeyan<br>Managing Director<br>Organic Fiber Clothing<br>Tirpur.   | Member      |
| 7. Dr.R.Uthayakumar,<br>Professor,<br>Department of Mathematics,<br>Gandhigram Rural Institute Deemed University,<br>Gandhigram -624302 ,<br>Dindigul, Tamil Nadu, India. | Member      |

The Chairperson welcomed the members of the Board. Leave of absence granted to Mr.V.Karthikeyan (Industrial expert). The Board carefully scrutinized the draft syllabus / syllabi and after detailed discussion the following resolutions were passed.

**Agenda: 1**

To consider and approve the Regulations and Syllabus for B.Sc. Mathematics programme for the Academic year 2019-2020.

**Resolution: 1**

Resolved to approve the Regulations and Syllabus for B. Sc. Mathematics programme and it comes into effect from 2019-2020

**Agenda: 2**

To consider and approve the Regulations and Syllabus for M.Sc. Mathematics programme for the Academic year 2019-2020.

**Resolution: 2**

Resolved to approve the Regulations and Syllabus for M. Sc. Mathematics programme and it comes into effect from 2019-2020.

**Agenda: 3**

To consider and approve the Regulations and Syllabus of the allied courses for B.Sc. (CS\IT\CT), B.C.A., B.Sc.(MB), M.C.A., and M.Sc.(MB), from the academic year 2019-2020 handled by department of Mathematics.

**Resolution: 3**

Resolved to approve the Regulations and Syllabus of the allied courses for UG and PG Programmes and it comes into effect from 2019-2020.

**Agenda: 4**

To consider and approve the Regulations and Syllabus for the following Research programme for the Academic year 2019-2020.

- i) M.Phil in Mathematics and
- ii) Ph.D in Mathematics

**Resolution: 4**

Resolved to approve the Regulations and Syllabus for i) M.Phil and ii) Ph.D Research programmes and it comes into an effect from 2019-2020.

## UG PROGRAMME (B.Sc. Mathematics)

For UG Courses the following suggestions were made based on the local and global needs and on employability, entrepreneurship and skill development

### Algebra (18MMU102)

Contents related to complex numbers may be removed from **UNIT I**. In lieu of this, the contents related to set theory of **UNIT I** and **II** may be framed as **UNIT I**. **UNIT III** and **IV** may be framed as **UNIT II** and **III**, respectively. The contents related to the theory of equations may be included as **UNIT IV** and **V**.

### Differential Equations- Practical (18MMU211)

In the list of practical's should include some practical's on Laplace transforms in **Differential Equations-Practical (19MMU211)**.

### Theory of Equations (18MMU202)

This course may be removed from the curriculum because **Algebra** has the contents related to the theory of equations in **UNIT IV** and **UNIT V**.

### Real Analysis (18MMU203)

The contents of **UNIT IV** may be augmented and make it as **UNIT IV** and **UNIT V**. **UNIT V** may be deleted since the contents are not in the continuity. Also the course code may be changed into **(19MMU202)**.

### Environmental Studies (18AEC201)

In **Unit-I** the topic forest eco system, Grassland eco system, Dessert eco system can be added. In **Unit-II**, the topics water resources and its related topics may be added. In **Unit-IV**, the topics, Environment laws, Environmental movements may be excluded.

### Theory of Equations (18MMU202)

This course may be removed and replaced by the new course **Industrial Mathematics**.

### Analytical Geometry (18MMU303A)

Instead of this course **Portfolio optimization** can be added.

### The following courses may be introduced as elective new courses

- **Mathematical Modelling**
- **Differential Geometry**

The UG programme B.Sc Mathematics consists of 41 courses out of which 4 are languages and environmental studies courses. There is a syllabus change in 4 courses and 4 new courses were introduced, hence the total change is = 13.4 %

## **PG PROGRAMME (M.Sc. Mathematics)**

**For PG Courses the following suggestions were made based on the local and global needs and on employability, entrepreneurship and skill development**

### **Algebra (18MMP101)**

This course should be augmented and included in the semester I and II as **Algebra (19MMP101)** and **Linear Algebra (19MMP201)**, respectively.

### **Combinatorics (18MMP105C)**

The content of this course may be revised as per the requirements of real life application

### **Graph Theory and its Application (18MMP205A)**

This title of the course may be renamed as **Graph Theory (19MMP205A)**.

### **Theory of Elasticity (18MMP205B)**

In lieu of this course **Differential Geometry (19MMP205B)** may be included in the curriculum.

### **Optimization Techniques – Practical (18MMP211)**

The list of practical can be enriched to meet the content of this course.

### **Mathematical Modelling (18MMP303)**

In lieu of this course **Fuzzy sets and Fuzzy logic (19MMP302)** may be included in the curriculum.

### **Fuzzy Topology (18MMP305C)**

This course may be removed from the curriculum and **Neural Networks** can be added.

### **Topology (18MMP202)**

This course may be shifted from semester II to III as **Topology (19MMP301)**.

### **Functional Analysis (18MMP301)**

This course may be shifted from semester III to IV as **Functional Analysis (19MMP401)**.

### **Measure Theory (18MMP401)**

This course may be shifted from semester IV to III as **Measure Theory (19MMP303)**.

The PG programme M.Sc Mathematics consists of 30 courses. There is a syllabus change in 1 courses and 5 new courses can be introduced hence total change is =18.60 %

## **Allied Courses**

### **Discrete Structures (18CSU202, 18CTU202, 18ITU202, 18CAU202):**

This course may be converted **UNIT-I to UNIT-I and II. UNIT-II** may be excluded. Substitution Method, recurrence tree, Master theorem in **UNIT-III** are may be removed.

### **Optimization techniques (17CAP503):**

In this course **UNIT-I** may be divided into **UNIT-I and II**. Also in **UNIT-I**, revised simplex method and Sensitivity analysis may be removed.

Integer Programming problem may be excluded in **UNIT-II**. The content of Queueing theory in **UNIT-II** maybe combined with **UNIT-IV**.

### **Bio Mathematics and Bio Statistics (17MBU502A):**

The content of this course may be revised as per the requirement of the life application.

### **Bio Statistics and Research Methodology(18MBP203)**

The content of this course may be revised.

## **M.Phil / P.hD PROGRAMME**

The syllabus framed for 2018-2019 batch will be followed for 2019-2020 Batch.

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

**KARPAGAM ACADEMY OF HIGHER EDUCATION**

**COIMBATORE – 641 021**

**2019- 2020**

Minutes of the meeting of the Board of Studies in Microbiology (UG, PG, M.Phil & PhD) held on 08.04.2019 at 10.00 am in the Microbiology Department at Karpagam Academy of Higher Education.

**Members Present:**

**1.Dr.B.V.Pradeep,**

Associate Professor & Head,  
Dept of Microbiology,  
Karpagam Academy of Higher Education,  
Coimbatore-641021.

**2. Dr.R.Usha,**

Associate Professor,  
Dept of Microbiology,  
Karpagam Academy of Higher Education,  
Coimbatore-641021.

**3.Dr.M.Kulandhaivel,**

Associate Professor,  
Dept of Microbiology,  
Karpagam Academy of Higher Education,  
Coimbatore-641021.

**4.Dr.N.O.Gopal,**

Professor,  
Dept of Microbiology,  
TamilNadu Agriculture University,  
Coimbatore- 641003.

**5. Dr. PreethiMarimuthu**

CEO,  
Tropical Biosciences Pvt Ltd,  
115/3C Pollachi Main Road,  
Othakkalmandapam,  
Coimbatore – 641032.

The Chairperson welcomed the members of the Board. Leave of absence granted to Mr.M.Mani, Director, Microbiological Laboratory, RS Puram, Coimbatore 641 002. The Board carefully scrutinized the draft syllabus and after detailed discussion the following resolutions were passed.

**Agenda: 1**

1. To consider and approve the Regulations and Syllabus for B.Sc Microbiology programme for the academic year 2019-2020.

**Resolution: 1**

1.Resolved to approve the Regulations and Syllabus for B.Sc Microbiology programme and it comes into effect from 2019-2020.(Approved Syllabus given in Annexure-II).

**Agenda: 2**

1. To consider and approve the Regulations and Syllabus for M.Sc Microbiology programme for the academic year 2019-2020.

**Resolution: 2**

1. Resolved to approve the Regulations and Syllabus for M.Sc Microbiology programme and it comes into effect from 2019-2020 (Approved Syllabus given in Annexure-II).

**Agenda: 3**

1. To consider and approve the Regulations and Syllabus for M.Phil&Ph.D Microbiology programme.

**Resolution: 3**

1.Resolved to approve the Regulations and Syllabus for M.Phil&Ph.D Microbiology programme and it comes into effect from 2019-2020 (Approved Syllabus given in Annexure-III).

There has been minor changes carried out in 2018 - 2019 Bsc&Msc Microbiology syllabus. In addition to the UGC model curriculum we have added few topics in different courses of BSc Microbiology 2019-2020 based on the employability, entrepreneurship and skill development..

Suggestions given by members to improve the syllabus to meet the present and future challenges in the field are follows.

**B.Sc., Microbiology**

1. The content Actinobacteria is shifted from Unit-III to Unit-II. Techniques involved in algal cell cultivation and preservation are included in Introduction to Microbiology and Microbial Diversity (19MBU101).
2. Unit-I is replaced by Unit-II and Unit-IV was divided into Unit-III (Proteins) and IV (enzymes) of Basic Biochemistry (19MBU103)
3. Haemocytometer is added to Bacteriology Practical (19MBU112)

4. The concepts of molarity and normality are added to Basic Biochemistry Practical (19MBU113)
5. DNA replication, transcription and translation are shifted from Unit-I to Unit-III in Microbial Genetics (19MBU203).
6. Effect of aeration on growth of *E.coli* is included in Microbial Physiology and Metabolism Practical (19MBU212)
7. Microbial production of DHA, chitinase, Probiotics (*Lactobacillus*, *Bacillus* and Yeast) are included in Industrial Microbiology (19MBU303)
8. Isolation of microbes from saline water and salinesoil is added to Environmental Microbiology Practical (19MBU311).
9. Study the growth curve: Haemocytometer; Glycol stock and stability of vials at different time and Assess quality of probiotics in tablets and nutritional supplements are included in Industrial Microbiology Practical (19MBU313).
10. CRISPR tool is added to Unit-V of Recombinant DNA Technology (19MBU403).
11. Soil nutrients, plant growth, nitrogen cycle, role of phosphate in plant growth and yield and general introduction of mycorrhizae, potash and zinc solubilizing microbes, bio nematicide, *Pseudomonas*, *Bacillus*, *Streptomyces* are included in Biofertilizers and Biopesticides (19MBU404A).
12. Isolation and identification of potash solubilizing microbes, Isolation and identification of zinc solubilizing microbes, quantification, infectivity and potential of phosphate solubilizing bacteria are included in Biofertilizers and Biopesticides Practical (19MBU414A).
13. Principles of Filtration (micro and ultra) is added to Unit –V of Instrumentation and Biotechniques (19MBU503A)
14. Gene transfer techniques, biotransformation of antibiotics and basic cloning steps and product development are included in Microbial Biotechnology (19MBU504A).
15. Storage stability, Cell Viability test, enzyme estimation test and Study the stability of various formulation- powder, liquid, cream (additives, carriers at different pH, moisture, temperature and shelf life) are included in Microbial Biotechnology Practical (19MBU514A).
16. VAM, potash solubilizers added to Unit-IV of Microbes in Sustainable Agriculture and Development –(19MBU602B)
17. CRISPR is added to Unit-II of Molecular Biology (19MBU603B)

18. Screening of bacterial isolates for PHB production using ‘Sudan black B’ method, enumeration of soil microorganisms: Bacteria, fungi and actinobacteria, urea decomposers and nitrate utilizers are included in Microbes in Sustainable Agriculture and Development –Practical (19MBU612B)
19. Estimation of protein by Lowery’s method is added to Molecular Biology - Practical (19MBU613B).
20. Advanced Biochemistry (18MBU303) and the corresponding practical course Advanced Biochemistry Practical (18MBU313) were changed as Biochemistry II and Biochemistry II Practical and were placed in Semester II as 19MBU201 and 19MBU211.

**B.Sc., Microbiology programme consist of 60 courses. There is a syllabus changes in 21 courses. The percentage of changes in the syllabus is 35 % for UG programme from the academic year 2019–2020.**

### **M.Sc., Microbiology**

1. Physical and chemical methods in control of microbial growth is included in Unit- IV, fundamentals of microbiology and classification (19MBP101).
2. Double beam spectroscopy, column chromatography, MS-MS are included in Unit- I and Unit- III respectively in Bio instrumentation (19MBP104).
3. Marine micro and macroorganisms and their significance, seaweeds, agriculture, cosmetics and saline tolerant microbes -probiotics are included. Unit –III and Unit-V completely reframed in Marine microbiology (19MBP105A).
4. Biofungicides and bioherbicides, and its application are included; bioremediation of air pollutants was shifted from Unit-III to Unit-II. Microbes in agriculture were included in Unit-III. Topics like plant growth promoting microorganisms- Mycorrhizae, Rhizobia, Azospirillum, Azotobacter, Azolla, Frankia, Blue green algae, Phosphate solubilizers fluorescent *Pseudomonas* were included in Unit-V, Environmental and agricultural microbiology (19MBP204)
5. FCO, CIB are included in unit V. Antibiotics and antimicrobial drug resistance, search for new antimicrobial agents are shifted from Unit IV to Unit II. International disinfectant testing protocol is shifted from Unit-V to Unit-IV. Quality parameters to assess natural products, nutraceutical product, and pharmaceutical products are shifted from Unit-III to Unit-V in quality assurance and quality control (19MBP205B).

6. Topics like Enzymes- Introduction, Enzyme Kinetics, Immobilized Enzyme system, large scale production, medical and industrial utilization, crystallization centrifugation, filtration, freeze-drying and spray drying are included in unit-IV Bioprocess engineering (19MBP205C).
7. Experiment on estimation of protein by Lowry's Method is included in Advanced Practical –III (19MBP211).
8. Immunoelectrophoresis is included in advanced immunology (19MBP301) unit-V.
9. In Food and industrial microbiology (19MBP302) Unit 4 and unit 5 have the same syllabus as of bioprocess engineering. These two units were replaced with food microbiology syllabus and the paper was renamed as food microbiology (19MBP302).
10. Concepts on writing a patent a document is included in microbial technology and intellectual property rights (19MBP304).
11. Nitrogen fixers, Phosphate solubilizers and Potassium solubilizers are added in Unit II. Ecto and Endo mycorrhizae added in Unit III. Quality control parameters, ISI-FCO norms are added in Unit V.
12. Ethical guideline for use of animals in research is added in Unit I. Subtopics are included in all units in laboratory animal care (19MBP305B).

**M.Sc., Microbiology programme consist of 27 courses. There is a syllabus changes in 12 courses. The percentage of changes in the syllabus is 44.44 % for PG programme from the academic year 2019 – 2020.**

### **M.Phil/Ph.D., Microbiology**

Continuous, batch, fed batch, aeration agitation and pH are included in unit II and ultra and micro filtration are included in unit III in industrial and pharmaceutical microbiology (19RMB301).

M.Phil/Ph.D., Microbiology programme consist of 6 courses. There is a syllabus change in 1 course. The percentage of changes in the syllabus is 17 % for M.Phil/Ph.D programme from the academic year 2019 – 2020.

The Board passes the syllabus for B.Sc Microbiology, M.Sc Microbiology, M.Phil&Ph.D Microbiology.

The Curriculum and credits were approved as such for the academic year 2019- 2020.

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

## **DEPARTMENT OF PHYSICS**

### **Minutes of the meeting of board of studies**

Minutes of the meeting of the Board of Studies in Physics held on 22.3.2019 at 10.30 AM in the Department of Physics at Karpagam Academy of Higher Education.

#### **Members Present**

1. Dr. V. Senthil Kumar
2. Dr. B. Janarthanan
3. Dr. S. Sharmila
4. Dr. S. Arumugam
5. Dr. R. T. Rajendra Kumar
6. Mr. Sanoj Varghese
7. Er. P. Anbazhagan

The chairperson welcomed the members of the Board. The Board carefully scrutinized the draft Regulations and syllabi and after detailed discussion the following resolution were passed.

#### **Agenda: 1**

To consider and approve the regulations & syllabus for B.Sc Physics programme for the Academic year 2019 – 2020.

#### **Resolution : 1**

Resolved to approve the regulations and syllabus for B.Sc Physics programme and it comes into effect from 2019 – 2020 (Approved syllabus given in Annexure – I).

#### **Agenda: 2**

To consider and approve the regulations & syllabus for M.Sc Physics programme for the Academic year 2019 – 2020.

#### **Resolution : 2**

Resolved to approve the regulations and syllabus for M.Sc Physics programme and it comes into effect from 2019 – 2020 (Approved syllabus given in Annexure – I).

### **Agenda: 3**

To consider and approve the regulations & syllabus for M. Phil Physics programme for the Academic year 2019 – 2020.

### **Resolution : 3**

Resolved to approve the regulations and syllabus for M. Phil Physics programme and it comes into effect from 2019 – 2020 (Approved syllabus given in Annexure – I).

### **Agenda: 4**

To consider and approve the regulations & syllabus for Ph.D Physics programme for the Academic year 2019 – 2020.

### **Resolution : 4**

Resolved to approve the regulations and syllabus for Ph.D Physics programme and it comes into effect from 2019 – 2020 (Approved syllabus given in Annexure – I).

### **B.Sc Physics**

The following changes have been made in B.Sc physics

1. In semester I, Unit III and IV are completely revised for Language – I (19LSU101). Few topics have been changed in Unit I and II
2. Mathematical Physics – I (19PHU501) is shifted to Semester V and Mathematics – I (19PHU103) is introduced
3. In Language – II (19LSU201), Except Unit V, contents in the remaining units have been revised and changed.
4. Mathematical Physics – II (19PHU601) is shifted to semester VI from Semester II. Instead Mathematics – II (19PHU203) has been introduced.
5. Mathematical Physics Practical – I (19PHU511) and Mathematical Physics Practical – II (19PHU611) has been shifted to Semester V and Semester VI. Instead Mathematics Practical – I (19PHU113) and Mathematics Practical – II (19PHU213) has been introduced.
6. Mathematics I and Mathematics II in Semester III and IV has been replaced with Chemistry – I (19PHU304) and Chemistry – II (19PHU404). Chemistry Practical – I (19PHU314) and Chemistry Practical – II (19PHU414) has been introduced instead of Mathematics Practical – I and Mathematics Practical – II.

### **M.Sc Physics**

1. In Condensed Matter Physics (19PHP101), few changes have been done for the units 2 and 4.

2. In the course Electronic Devices and Circuits (19PHP102), few topics have been removed and changed in unit II and III.
3. For the Course Classical Mechanics and Relativity (19PHP103), all the units have been revised and changed.
4. In Nuclear Physics (19PHP203), Unit V has been completely revised and changed.

The following changes have been made in M.Phil Physics programme.

1. A new course experimental Techniques in material science have been introduced as a special paper.
2. The title of the paper material science has been changed to solid state Ionics.

### **Ph.D Physics**

The following changes have been made in Ph.D Physics programme.

1. A new course Experimental Techniques in material science have been introduced as a special paper.
2. The title of the paper Material Science have been changed to solid state Ionics (special paper)

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

Percentage of courses revised for UG programme = 14.4 %

Percentage of courses revised for PG programme = 6.8 %



# KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

(Established Under Section 3 of UGC Act, 1956)

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11-03-2019

**Faculty of Arts Science and Humanities**  
**Department of Tamil**  
**Minutes of the Board of Studies Meeting**

The meeting of Board of Studies in Tamil was held on 11.03.2019 at 10.00 am in the Department of Tamil at Karpagam Academy of Higher Education.

**Member Present:**

1. Dr.P.Thamilarasi  
Professor & Head  
Department of Tamil  
Karpagam Academy of Higher Education,  
Coimbatore - 641021.
2. Dr.R.Madhan Kumar  
Associate Professor  
Department of Tamil  
Karpagam Academy of Higher Education,  
Coimbatore - 641021.
3. Dr.Aruchamy S.  
Assistant Professor  
Department of Tamil  
Karpagam Academy of Higher Education,  
Coimbatore - 641021.
4. Dr. K. Thilakavathy  
Professor & Head  
Department of Tamil  
Tamil University  
Thanjavur - 636 011.

The Chairperson of the Board of Studies Meeting welcomed the members.

The following agendas were taken place for discussion and resolutions made as follows:

**Agenda: 1**

To consider and approve the Regulations and the Revised Syllabus of UG Part – 1 Tamil, Paper I & II for the Academic year 2019-2020.

**Resolution: 1**

Resolved to approve the Regulations and the Revised Syllabus of UG Part – 1 Tamil, Paper I & II for the Academic year 2019-2020.

**Agenda: 2**

To consider and approve the Regulations and Syllabus for the following Research programs for the Academic year 2019-2020.

- i) M.Phil in Tamil and
- ii) Ph.D in Tamil

**Resolution: 2**

Resolved to approve the Regulations and Syllabus for i) M.Phil and ii) Ph.D Research programs. There are no Changes in the existing Syllabus for 2019-2020.

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

**25.03.2019**

**Minutes of the meeting of Board of Studies 2019-2020**

Board of Studies Meeting for Department of Automobile Engineering was convened on 22.03.2019 (Friday) for the approval of BE Automobile Engineering 2019 Curriculum and Syllabus (I Sem – VIII Sem) at 10.00 a.m. in our Department.

**Members Present:**

1. Dr.P.Shanmugasundaram Professor, Department of Automobile Engineering, FoE, KAHE.
2. Mr.A.Sivanandam, Head In charge, Department of Automobile Engineering, FoE, KAHE.
3. Dr.V.M.Murugesan, Associate Professor, Department of Automobile Engineering, PSG College of Technology.
4. Er.S.Sakthivel Regional Manager Sales, Maruthi Udyog, Erode.
5. Dr. K.Sathish Kumar, Associate Professor, Department of Automobile Engineering, FoE, KAHE.
6. Mr.J.Jaya Balaji, Assistant Professor, Department of Automobile Engineering, FoE, KAHE.

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**

To consider and approve the modification of existing Curriculum and Syllabus for B.E. Automobile Engineering Programme.

**Resolution: 1**

Resolved to amend the suggestions/ corrections and approve the Curriculum and Syllabus for B.E. Automobile Engineering Programme and it comes into effect from 2019-20. (Approved Regulations and Syllabus given in **Annexure-I**).

## ANNEXURE - I

1. Fluid Mechanics and Machinery course may be offered in III semester instead of Fluid Mechanics and Heat Transfer.
2. Heat and Mass Transfer may be offered as an elective.
3. "Automotive Vehicle Maintenance Laboratory" may be renamed as "Vehicle Maintenance Laboratory".
4. "Professional Ethics, Principles of Management and Entrepreneurship Development" may be renamed as "Professional Ethics and Entrepreneurship Development".
5. "Micro- and Nano-mechanical systems" (MEMS and NEMS) may be offered as an elective.
6. "Vehicle Body Engineering and Safety" may be offered in two courses instead of single.
  - (i). Vehicle Body Engineering
  - (ii). Automotive Safety
7. No humanities courses are offered under open electives by the science and humanities.
8. "Renewable Energy Resources" may be offered as an open elective by mechanical engineering instead of electrical and electronics engineering.
9. "Transportation Engineering" may be offered as an open elective by civil engineering.
10. The following courses that are offered by automobile engineering can be renamed.  
"Basics of Two and Three Wheelers" to "Two and Three Wheelers".  
"Introduction to Modern Vehicle Technology" to "Modern Vehicle Technology".
11. Columns topics may be included in the mechanics of solids course.
12. "Thermoelectric cooling and chip cooling" topics in the applied thermodynamics course can be removed and may be included in the heat transfer course.
13. "Desirable properties of ideal refrigerant properties" topic in the applied thermodynamics may be termed as "refrigerant properties".
14. "Engineering Metrology and Measurement Techniques" course may be renamed as "Engineering Metrology and Measurements".
15. In "Engineering Metrology and Measurement Techniques" course, title of Unit-II can be renamed as "Linear and Angular Measurements" and title of Unit-V may be renamed as "Laser and Advanced Metrology",
16. Web references may be removed from all the courses.
17. "Automotive Engine Parts and Measurements Laboratory" may be renamed as Automotive Engine Components and Measurements Laboratory
18. "Automotive Electrical and Electronic Systems" syllabus units may be arranged in the following order.  
Unit I - Battery and ignition system

Unit II - Starting system and charging system

Unit III – Lighting system, wiring system and accessories

Unit IV - Sensors and actuators

Unit V - Engine management systems (TBI, MPFI, GDI& CRDI)

19. "Dismantling and assembling of SI Engine" topic may be changed as "Servicing of SI Engine "
20. In Automobile Vehicle Maintenance and Reconditioning Laboratory
21. In "Design of Machine Elements" syllabus, title of the unit-I may be given as "Steady and variable stresses in machine elements".
22. "Dynamics and Mechatronics Laboratory" can be renamed as "Dynamics and Automation Laboratory" and arrange the experiments with respect to the topics, dynamics and automation.
23. The following topics can be incorporated in "Vehicle Maintenance Laboratory" syllabus.  
Fault diagnosis of Gasoline and CI engine fuel feed systems and rectification,  
Trouble shooting of lighting systems and accessories,  
Trouble shooting of Starting system and charging system.
24. In "Engine and Vehicle Management System" syllabus, "D-Jetronic" topic may be included.

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

The UG programme Automobile Engineering, consists of 60 courses out of which 16 courses are in Science & Humanities, Management and other allied Engineering courses. **There is a syllabus change in 12 courses and hence the total change is  $12 / 44 * 100 = 27.27 \%$**

## **Minutes of the Meeting of Board of Studies 2019- 2020**

KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE – 641 021

Minutes of the meeting of the Board of Studies in Civil Engineering held on 26.03.2019 at 10.30 am in the Department of Civil Engineering at Karpagam Academy of Higher Education.

### **Members Present:**

- 1.Dr.N.Balasundaram
- 2.Dr.M.Natarajan
- 3.Mr.V.Venugopalan
- 4.Mr.V.Johnpaul
- 5.Dr.Sudhakar

The Chairperson welcomed the members of the Board. Leave of absence granted to Dr.C.Rajakumar & Dr.Rajkumar. The Board carefully scrutinized the draft syllabus and after detailed discussion the following resolutions were passed.

### **Agenda 1**

To consider and approve the Regulations and Syllabus for the following programmes.

- 1.B.E-Civil Engineering(Full time and Part time)
- 2.M.E-Water Resources and Environmental Engineering(Full time and Part time)
- 3.Ph.D in Civil Engineering(Full time and Part time)

### **Resolution1**

Resolved to approve the Regulations and Syllabus for the following programme and it comes into effect from 2019-20.

#### **1.B.E-Civil Engineering (Full time)**

- In Computer Aided Civil Engineering Drawing course, It is suggested that the introduction part can be changed into General Introduction and Introduction to computer Aided Drawing.
- In Engineering Mechanics course, some of the topics were removed like method of sections and Dynamics due to overloading of contents in the course.
- Some outdated topics were removed in Introduction to Civil Engg course and History of Civil Engineering, Architect and Town Planning topics were removed.
- In Disaster Preparedness and planning course it is suggested to include Alternative Communication System topic in Module IV.
- In Introduction to Solid Mechanics course some of the topics were removed like Analysis of Statically determinate Structures and Stress analysis in thin and thick cylinders.

- In structural Engg course, Cable structures topic is replaced by flat slab and Prestressed concrete Bridge is replaced by Concrete Element.
- In Construction Engineering and Management Contract recovery topic is included to increase the weightage of the curriculum.
- In Estimation and Costing course, Introduction to act topic was removed.
- It is suggested to include Construction Practices course to increase the weightage of curriculum.

There is no change in the part time curriculum and syllabus of Academic year 2019-2020.

## **2. M.E-Water Resources and Environmental Engineering (Full time and Part Time)**

Resolved to approve the Regulations and Syllabus for the **M.E-Water Resources and Environmental Engineering (Full time)** programme and it comes into effect from 2019-2020.

## **3. Ph.D in Civil Engineering (Full time and Part time)**

- It is suggested to include Structural Dynamics course which is more predominant in research area.
- It is also suggested to provide more number of optional courses to select best one.

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

The UG Programme B.E-Civil Engineering consists of 50 courses out of which courses 21 are offered by other departments. There is a syllabus change in 28 courses and hence total change=  $(28/29)*100=96.55\%$

The PG Programme M.E-Water Resource and Environmental Engineering (Part time) consists of 19 courses, out of which 01 course is offered by other department. There is a syllabus change in 04 courses and hence total change=  $(5/18)*100=28\%$

The Ph.D Programme--Civil Engineering consists of 24 courses out of which 02 courses changed and hence total change=  $(2/24)*100=8\%$

KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE – 641 021

Minutes of the meeting of the Board of Studies in Computer Science and Engineering held on 23.03.2019 at 10.00am in the Department of Computer Science and Engineering at Karpagam Academy of Higher Education.

Members Present:

1. Dr. N. Mohanasundaram (Chairperson)

Faculty of Engineering-KAHE

2. Dr. R. Santhosh (Member)

Associate Professor-CSE, KAHE

3. Dr. B. Arunkumar (Member)

Associate Professor-CSE, KAHE

4. Mr. T. Mohanraj (Member)

Assistant Professor-CSE, KAHE

5. Mr. S. Shahul Hammed (Member)

Assistant Professor-CSE, KAHE

6. Dr. S. GokulDev (Expert Member)

Chair Person-Computer Science

Amrita University, Mysore Campus,

Karnataka.

The chairperson offered a warm welcome to the members of the Board of Studies. The Board Member Mr. V. M. Ganesh, Associate, Cognizant Technology Solutions, Coimbatore has expressed his inability to attend the Board of Studies Meeting due to some unavoidable situation hence leave of absence is granted to him.

The Board carefully scrutinized the draft regulations and syllabi and after detailed discussion the following resolutions were passed.

**Agenda: 1**

To consider and approve the Regulations and Syllabus for B.E Computer Science and Engineering Programme for the Academic Year 2019-2020.

**Resolution: 1**

The Board member Dr. S. Gokuldev has agreed to the following curriculum.

The U.G Program B.E Computer Science and Engineering Consists of 54 courses. There is no change in any courses in the syllabus and hence the total change is  $0/54 * 100 = 0\%$

Resolved to approve the Regulations and Syllabus for B.E Computer Science and Engineering programme and it comes into effect from 2019-2020 (Approved Syllabus given in Annexure –I)

**Agenda: 2**

To consider and approve the Regulations and Syllabus for Ph.D Computer Science and Engineering programme for the academic year 2019-2020.

**Resolution: 2**

The Board Member Dr.S.Gokuldev has agreed that no new courses may be included in the curriculum.

Total number of courses present during the year 2018-19 = 26

Total number of courses present during the year 2019-20 = 26

Percentage change in the syllabi = 0%

Resolved to approve the Regulations and Syllabus for Ph.D Computer Science and Engineering programme and it comes into effect from 2019-2020 (Approved Regulations and Syllabus given in Annexure-I).

The meeting was concluded with the vote of thanks by the Chairperson.

**BOS (2019-2020)**

**Minutes of Board of Studies:**

Minutes of meeting of the board of studies in ECE department held on 13.02.2019 at 10.00AM in Bio Signal Processing lab in FOE of Karpagam Academy of Higher Education

**Members present**

1. Dr S.Bhavani, Prof & HOD/ECE KAHE (Chairperson)
2. Dr V.R.Vijayakumar , Prof &HOD/ECE, Anna University, Cbe
3. Mrs N.Kavitha, steps knowledge service, Cbe
4. Dr P.Manimegalai, Prof/ECE, KAHE
5. Dr S.Kamalraj, Asst Prof/ECE, KAHE
6. Dr G.R.Mahendra babu, AP/ECE, KAHE
7. Mr M.Daranikumar , AP/ECE, KAHE

The chair person welcomed the members of board of studies. The BoS committee scrutinized the current syllabus for 2019 batch & the syllabus for PHD course work

**Agenda 1:**

To consider and approve the current syllabus for I&II semester of BE ECE

**Resolution 1:**

Satisfied with the curriculum and syllabus for I & II semester of BE ECE

**Annexure I**

**Agenda 2:**

To consider and approve the current syllabus for PHD of course work for 2019

**Resolution 2:**

Satisfied with the curriculum and syllabus for PHD in ECE for 2019 & 2020

The meeting came to an end with vote of thanks by chairperson Dr S.Bhavani .

The UG program BE- Electronics and Communication Engineering for Academic year 2019-20 consists of 60 Courses out of which it has 26 Allied Engineering courses. There is no syllabus change .

The Ph.D program in ECE for Academic year 2019-20 consists of 22 Courses. There is no syllabus change .

**KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE – 641 021**

28-03-2019

Minutes of the meeting of the Board of Studies in **2019-2020** held on **28-06-2018** at **10 am** / pm in the **EEE Department** at Karpagam Academy of Higher Education.

**Members Present:**

1. Dr. A. AMUDHA,  
PROFESSOR AND HEAD, EEE DEPARTMENT,  
FACULTY OF ENGINEERING,  
KARPAGAM ACADEMY OF HIGHER EDUCATION, COIMBATORE.
2. Dr. P. MANIMEGALAI,  
PROFESSOR , DEPARTMENT OF ECE,  
FACULTY OF ENGINEERING,  
KARPAGAM ACADEMY OF HIGHER EDUCATION, COIMBATORE.
3. Prof. K. BALACHANDER,  
ASSOCIATE PROFESSOR, EEE DEPARTMENT,  
FACULTY OF ENGINEERING,  
KARPAGAM ACADEMY OF HIGHER EDUCATION, COIMBATORE.
4. Prof. T. RAMESH,  
ASSISTANT PROFESSOR, EEE DEPARTMENT,  
FACULTY OF ENGINEERING,  
KARPAGAM ACADEMY OF HIGHER EDUCATION, COIMBATORE.
5. Dr. V. JAGATHESAN,  
ASSOCIATE PROFESSOR, EEE DEPARTMENT,  
KARUNYA UNIVERSITY, KARUNYA NAGAR, COIMBATORE.

The Chairperson welcomed the members of the Board. The Board carefully scrutinized the draft Curriculum / Syllabus/ Syllabi and after detailed discussion the following resolutions were passed.

**Agenda: 1**

To consider and approve the Regulations and Syllabus for FT B.E (Electrical and Electronics Engineering) programme for the academic year 2019-2020

**Resolution: 1**

Resolved to approve the Regulations and Syllabus for BE (EEE) Full Time programme and it comes into effect from 2019-20.

The courses introduced are:

| S.No. | Course Code | Course Name |
|-------|-------------|-------------|
| NIL   |             |             |

The electives introduced are:

| S.No. | Course Code | Course Name |
|-------|-------------|-------------|
| NIL   |             |             |

The changes in the existing courses are:

| S.No. | Course Code | Course Name   | Changes Introduced                          |
|-------|-------------|---|---|
| 1     | 19BEEE241   | Chemistry-I   | Unit II,Unit III and Unit IV changed        |
| 2     | 19BEEE141   | Waves, Optics and Introduction to Quantum Mechanics | Unit I,Unit III ,Unit IV and Unit V changed |

**Agenda: 2**

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

B.E (Electrical and Electronics Engineering-Part time)

**Resolution: 2**

Resolved to approve the Regulations and Syllabus for BE (EEE) Part Time programme and it comes into effect from 2018-19. There is no syllabus changes.

**Agenda: 3**

To consider and approve the Regulations and Syllabus for FT M. E (Power Systems Engineering) programme for the academic year 2019-2020

**Resolution: 3**

Resolved to approve the Regulations and Syllabus for ME (PSE) Full Time programme and it comes into effect from 2019-20.

**New Course Introduced**

| S.No. | Course Code | Course Name                        |
|-------|-------------|------------------------------------|
| 1.    | 19MEPS101   | Power System Analysis              |
| 2.    | 19MEPS102   | Power System Dynamics-I            |
| 3.    | 19MEPS103   | Program Elective – I               |
| 4.    | 19MEPS104   | Program Elective – II              |
| 5.    | 19MEPS105   | Research Methodology and IPR       |
| 6.    | 19MEPS111   | Lab 1                              |
| 7.    | 19MEPS112   | Lab 2                              |
| 8.    | 19MEPS113   | Audit I                            |
| 9.    | 19MEPS201   | Digital Protection of Power System |
| 10.   | 19MEPS202   | Power System Dynamics-II           |
| 11.   | 19MEPS203   | Program Elective – III             |
| 12.   | 19MEPS204   | Program Elective – IV              |
| 13.   | 19MEPS211   | Lab3                               |
| 14.   | 19MEPS213   | Audit-II                           |
| 15.   | 19MEPS301   | Program Elective – V               |
| 16.   | 19MEPS302   | Open Elective                      |
| 17.   | 19MEPS303   | Phase – I Dissertation             |
| 18.   | 19MEPS401   | Phase-II<br>Dissertation           |

**Elective Courses**

| S.No. | Course Code | Course Name                                |
|-------|-------------|--|
| 1.    | 19MEPS103A  | Renewable Energy System                    |
| 2.    | 19MEPS103B  | Smart grids                                |
| 3.    | 19MEPS103C  | High Power Converters                      |
| 4.    | 19MEPS103D  | Wind and Solar Systems                     |
| 5.    | 19MEPS104A  | Electrical Power Distribution System       |
| 6.    | 19MEPS104B  | Mathematical Methods for Power Engineering |
| 7.    | 19MEPS104C  | Pulse Width Modulation for PE Converters   |
| 8.    | 19MEPS104D  | Electric and Hybrid Vehicles               |
| 9.    | 19MEPS203A  | Restructured Power Systems                 |

|     |                   |   |
|-----|-------------------|---|
| 10. | <b>19MEPS301A</b> | Power System Transients                                   |
| 11. | <b>19MEPS301B</b> | FACTS and Custom Power Devices                            |
| 12. | <b>19MEPS301C</b> | Industrial Load Modeling and Control                      |
| 13. | <b>19MEPS203B</b> | Advanced Digital Signal Processing                        |
| 14. | <b>19MEPS203C</b> | Dynamics of Electrical Machines                           |
| 15. | <b>19MEPS203D</b> | Power Apparatus Design                                    |
| 16. | <b>19MEPS204A</b> | Advanced Micro-Controller Based Systems                   |
| 17. | <b>19MEPS204B</b> | SCADA System and Applications                             |
| 18. | <b>19MEPS204C</b> | Power Quality   |
| 19. | <b>19MEPS111</b>  | Power System Steady State Analysis Lab                    |
| 20. | <b>19MEPS112A</b> | Power System Dynamics Lab                                 |
| 21. | <b>19MEPS112B</b> | Renewable Energy Lab                                      |
| 22. | <b>19MEPS211A</b> | Power System Protection Lab                               |
| 23. | <b>19MEPS211B</b> | Power Quality Lab   |
| 24. | <b>19MEPS211C</b> | Artificial Intelligence Lab                               |
| 25. | <b>19MEPS211D</b> | Power Electronics Applications to Power Systems Lab       |
| 26. | <b>19MEPS211E</b> | Smart Grids Lab   |
| 27. | <b>19MEPS204D</b> | AI Techniques   |
| 28. | <b>19MEPS113A</b> | English for Research Paper Writing                        |
| 29. | <b>19MEPS113B</b> | Disaster Management                                       |
| 30. | <b>19MEPS113C</b> | Sanskrit for Technical Knowledge                          |
| 31. | <b>19MEPS113D</b> | Value Education   |
| 32. | <b>19MEPS213A</b> | Constitution of India                                     |
| 33. | <b>19MEPS213B</b> | Pedagogy Studies  |
| 34. | <b>19MEPS213C</b> | Stress Management by Yoga                                 |
| 35. | <b>19MEPS213D</b> | Personality Development through Life Enlightenment Skills |

**Agenda: 4**

To consider and approve the Regulations and Syllabus for the following programme.  
M.E (Power Systems Engineering-Part time)

**Resolution: 4**

Resolved to approve the Regulations and Syllabus for ME (PSE) Part Time programme and it comes into effect from 2018-19.

The courses introduced are:

| S.No. | Course Code | Course Name |
|-------|-------------|-------------|
| NIL   |             |             |

The electives introduced are:

| S.No. | Course Code | Course Name            |
|-------|-------------|------------------------|
| 1     | 19PMEPS103D | WIND AND SOLAR SYSTEMS |
| 2     | 19PMEPS511E | SMART GRIDS LAB        |

The changes in the existing courses are:

| S.No. | Course Code | Course Name | Changes Introduced |
|-------|-------------|-------------|--------------------|
| NIL   |             |             |                    |

**Agenda: 5**

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

- P.hD (Electrical and Electronics Engineering)

**Resolution: 5**

Resolved to approve the Regulations and Syllabus for P.hD (Electrical and Electronics Engineering) programme and it comes into effect from 2019-20 .There is no syllabus changes.

The UG programme B.E. Electrical and Electronic Engineering Consists of 53 courses out of which 15 courses come under the category of Science and Humanities, Management and Allied Engineering courses. There is a syllabus change in 2 course and hence total change is 3.77 % changes in syllabus.

The UG programme B.E. Electrical and Electronic Engineering Consists of 35 courses out of which 7 courses come under the category of Science and Humanities, Management and Allied Engineering courses. There is no syllabus changes .

The PG programme M.E. Power Systems Engineering Consists of 18 courses out of which 01 courses come under the category of Management courses. This is a 100% new syllabus .

The PG programme M.E. Power Systems Engineering –Part time consists of 15 courses out of which 01 courses come under the category of Management courses. There is a no syllabus changes.

The Ph.d programme consists of 25 courses out of which 01 courses come under the MBA department courses . There is no syllabus changes.

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



# KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University Established Under Section 3 of UGC Act, 1956)

Eachanari Post, Coimbatore-641021, Tamilnadu, India.

## FACULTY OF ENGINEERING B.E. (MECHANICAL ENGINEERING)

**BOS (2019 - 2020)**

### **Minutes of Board of Studies:**

Minutes of the meeting of the Board of Studies in Mechanical Engineering held on 23.03.2019 from 10.30am to 01.30pm in 308 H Block, Mechanical Engineering, Karpagam Academy of Higher Education, Coimbatore.

#### **Member Present:**

- 1) Dr.R.Sivaprakasam, Professor and Head, Department of Mechanical Engineering,KAHE
- 2) Dr.P.Shanmughasundaram, Professor, Department of Mechanical Engineering,KAHE
- 3) Dr.K. Thirunavukkarasu, Sr. Professor, Department of Mechanical Engineering,KAHE.
- 4) Dr. DebabrataBarik, Associate Professor, Department of Mechanical Engineering,KAHE.
- 5) Dr.C.RameshKannan, Associate Professor, Department of Mechanical Engineering,KAHE.
- 6) Dr.R.K.Suresh, Campus Director, AmritaInstitutions.
- 7) Dr.A.Elayaperumal, Professor, Department of Mechanical Engineering, College ofEngineering ,Guindy, Anna University.

The chairperson welcomed the members of the Board of studies. The Board carefully scrutinized the Curriculum and Syllabi. After the discussions, the following resolutions were passed.

#### **Agenda I.**

To consider and approve the regulations and syllabi for the BE (Mechanical Engineering – Full Time) for the Academic Year 2019 – 20.

#### **Resolution I:**

#### **For UG courses the following suggestions were given**

The UG programme BE Mechanical Engineering – Full Time consists of 78 courses out of which 19 courses are in Science and Humanities and other allied engineering courses. The academic year 2018 – 19 curricula and syllabi will be followed in academic year 2019 – 20.

#### **Agenda II.**

To consider and approve the regulations and syllabi for the BE (Mechanical Engineering – Part Time) for the Academic Year 2019 – 20.

## Resolution II:

**For B.E Mechanical Engineering (Full Time) courses the following suggestions were given**

The following elective courses are newly introduced the academic Year 2019 – 20 syllabi.

| Sl. No | SUB. CODE  | TITLE OF THE COURSE |
|--------|------------|---------------------|
| 1      | 19PBEME301 | Thermodynamics      |

The following courses are removed from the academic Year 2018 – 19 syllabi.

| Sl. No | SUB. CODE   | TITLE OF THE COURSE                     |
|--------|-------------|---|
| 1      | 18PBEME401  | Mechatronics                            |
| 2      | 18PBEME602  | Smart Manufacturing                     |
| 3      | 18PBEME603  | Entrepreneurship Development            |
| 4      | 18PBEMEED10 | Tribology                               |
| 5      | 18PBEMEEA03 | Intelligent Vehicle Technology          |
| 6      | 18PBEMEEA04 | Off Road Vehicles                       |
| 7      | 18PBEMEEA05 | Vehicle Troubleshooting and Maintenance |
| 8      | 18PBEMEEA06 | Electric Vehicle Technology             |
| 9      | 18PBEMEEM01 | Principles of Management                |
| 10     | 18PBEMEEM02 | Project Management                      |
| 11     | 18PBEMEEM03 | Manufacturing Systems Management        |
| 12     | 18PBEMEEM04 | Marketing Management                    |

The UG programme B.E. Mechanical Engineering – Part Time consists of 54 courses out of which 7 courses are in Science and Humanities and other allied engineering courses. The syllabus change is 24.07%.

## Ph. D. Mechanical Engineering

The Ph D Mechanical Engineering consists of 11 courses. The academic year 2018 – 19 curricula and syllabi will be followed in academic year 2019 – 20.

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

KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE – 641 021

Minutes of the meeting of the Board of Studies in **B.Tech Biotechnology** held on **29.03.2019** at **9 am** in the **Department of Biotechnology** at Karpagam Academy of Higher Education.

**Members Present:**

1. Dr. R. Thilagavathi, Professor & Head , Department of Biotechnology (B.Tech), FoE, KAHE
2. Dr. K.Ruckmani, Professor& Head, Department of Pharmaceutical Technology, Anna University, BIT Campus, Trichy.
3. Dr.K.M.Aravinthan, Director, Marutham Bioages Innovations Pvt Ltd., Coimbatore.
4. Dr. G.R. Prabu, Associate Professor, Dept. of Biotechnology, FASH, KAHE
5. Dr. K. Devaki, Associate Professor, Dept. of Biochemistry, FASH, KAHE
6. Ms. V. Vijayalakshmi, Asst Professor, Dept. of Biotechnology (B.Tech), FoE, KAHE
7. Mr.S.Adam, Asst Professor, Dept. of Biotechnology (B.Tech), FoE, KAHE

The Chairperson welcomed the members of the Board. The Board carefully scrutinized the draft Regulations and syllabi and after detailed discussion the following resolutions were passed.

**Agenda: 1**

To consider and approve the Regulations and Syllabus for **B.Tech Biotechnology** programme for the Academic year 2019-2020.

**Resolution: 1**

Resolved to approve the Regulations and Syllabus for **B.Tech Biotechnology** programme and it comes into effect from 2019-20 (Approved Syllabus given in Annexure-I).

**Agenda: 2**

1. To consider and approve the Regulations and Syllabus for **Ph.D Biotechnology** programme.

**Resolution: 2**

1. Resolved to approve the Regulations and Syllabus for Ph.D Biotechnology programme and it comes into effect from 2019-20 (Approved Regulations and Syllabus given in Annexure-II).

#### **Annexure-I**

The following corrections and suggestions may be included in B.Tech Biotechnology (2019-2020)

1. Biochemistry theory can be offered as two courses Biochemistry I (19BTBT205) and Biochemistry II (19BTBT306). Shifting of the metabolism part from Biochemistry (18BTBT205) to Biochemistry II.

#### **Annexure II**

The following corrections and suggestions may be included in Ph.D. Biotechnology Syllabus 2019-2020.

- The contents of Unit V of courses (19RBTE201, 19RBTE205, 19RBTE303, 19RBTE308) may be specifically given with the recent advanced topics and case studies.

The UG programme B.Tech Biotechnology (2019-2020) consists of 53 courses out of which 14 courses are in Science & Humanities, Management and other allied Engineering courses. There is a syllabus change in 1 course and hence the total change is  $1 / 39 * 100 = 2.56 \%$

The PhD programme PhD in Biotechnology consists of 16 courses. There is a syllabus change in 4 courses and hence the total change is  $4 / 16 * 100 = 25 \%$

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

KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE – 641 021

Minutes of the meeting of the Board of Studies in **B.Tech Chemical Engineering** held on **30.03.2019** at **10:30 am** in the **Department of Chemical Engineering** at Karpagam Academy of Higher Education.

Members Present:

1. Dr.G.K.D.Prasana Venkatesan, Dean, FoE, KAHE
2. Dr.S.Ravi, Professor and Head,Department of Chemistry, FASH, KAHE
3. Dr.R.Thilagavathi,Professor and Head, Department of Biotechnology, FoE, KAHE
- 4.Mr.A.Sivanantham, Associate Professor and Head,Department of Mechanical Engineering, FoE, KAHE
- 5.Dr.K.Saravanan, Head,Department of Chemical Engineering, Kongu Engineering College.

The Chairperson welcomed the members of the Board. Leave of absence granted to Dr.M.Thirumaraimurugan & Dr.Raj Kumar Rajagopal. The Board carefully scrutinized the draft Regulations and syllabi and after detailed discussion the following resolutions were passed.

**Agenda: 1**

To consider and approve the Regulations and Syllabus for **B.Tech Chemical Engineering** programme for the Academic year 2019 - 2020.

**Resolution: 1**

Resolved to approve the Regulations and Syllabus for **B.Tech Chemical Engineering** programme and it comes into effect from 2019-20 (Approved Syllabus given in Annexure-I).

**ANNEXURE – I**

19BTCE303 – Transport phenomena can be included in VII semester.

19BTCE304 – Biology can be replaced with a new course **Mechanical Operations** course.

19BTCE301 – Engineering and Solid Mechanics can be replaced with a new course **Heat Power Engineering**.

19BTCE302 – Chemistry II can be replaced with a new course **Fluid Mechanics** course.

19BTCE403 – Fluid Mechanics can be shifted to III semester and can be replaced with a new course **Chemical Process Industries** Course.

19BTCE404 – Material Science course name was suggested to be changed as Material Technology.

19BTCE411 – Numerical Methods in Chemical Engineering Lab can include Experiments with computational methods involving MATLAB and SIMULINK in syllabus.

19BTCE412 – Environmental Sciences can be modified to theory course as **Environmental science and Engineering**. This Course was suggested to be made mandatory.

19BTCE505 – Particle and Fluid Particle Processing can be replaced with **Process modeling and Simulation Course**.

In IV Semester, Suggestions were made to combine and utilize Fluid Mechanics lab and Mechanical Operations Lab under **Unit Operations Laboratory – I**.

In V semester, Suggestions were proposed to combine and utilize Heat and Mass Transfer Lab under Unit Operations Laboratory – II.

Chemical Reaction Engineering Laboratory can be included in VI Semester.

19BTCE401 – Heat Transfer, Unit III and IV can be combined as Boiling , Condensation and Evaporation. Unit – V should include Heat Exchangers.

19BTCE602 – Process Technology and Economics should be modified and syllabus should be changed accordingly for Process Economics.

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

The UG programme B.Tech. Chemical Engineering Consists of courses 50 out of which, 16 courses come under the category of Science and Humanities, Management and Allied

Engineering courses . **There is a syllabus change in 14 course and hence total change = 14/**

**(34 ) = 41.17 %**

## **KARPAGAM ACADEMY OF HIGHER EDUCATION**

**COIMBATORE-641021**

Minutes of the meeting of the Board of Studies in **Food Technology** held on **25.03.2019** at **10.00 am** in UM 213 at Karpagam Academy of Higher Education.

### **Members Present:**

1. Dr.R.Thilagavathi, Professor & Head (i/c), Department of Food Technology, Faculty of Engineering, Karpagam Academy of Higher Education, Coimbatore, Tamilnadu-641021.
2. Dr.K.Ramalakshmi, Professor & Head, Department of Food Technology, Bannari Amman Institute of Technology, Sathyamangalam, Erode, Tamilnadu-638401.
- 3.Dr.R.Ragunathan, Director, Centre for Bioscience & Nanoscience Research,461/ 3, Amman Nagar, Near Chandran Steels, LT BY Pass Road, Eachanari Post, Coimbatore, Tamilnadu-641021.
- 4.Mr.J.Premkumar, Assistant Professor, Department of Food Technology (B.Tech), Faculty of Engineering, Karpagam Academy of Higher Education, Coimbatore, Tamilnadu-641021.
- 5.Mr.V.Arun Joshy, Assistant Professor, Department of Food Technology (B.Tech), Faculty of Engineering, Karpagam Academy of Higher Education, Coimbatore, Tamilnadu-641021.

The chairperson welcomed the members of the Board. Leave of absence granted to Dr. C.A. Kalpana. The Board carefully scrutinized the draft Regulations, and syllabi and after detailed discussion the following resolutions were passed.

### **Agenda: 1**

To consider and approve the Regulations and Syllabus for **B.Tech Food Technology** programme for the Academic year 2019-2020.

### **Resolution: 1**

Resolved to approve the Regulations and Syllabus for **B. Tech Food Technology** programme and it comes into effect from 2019-2020 (Approved Syllabus has given in Annexure-I)

The following corrections and suggestions may be included in B.Tech Food Technology Syllabus (2019-2020).

1. 19BTFT205: Splitting of the unit-4 contents into two by elaborating the topics. The topics of the unit-5 can be included in 19BTFT6E02. Inclusion of Estimation of free fatty acid (FFA), experiments on coloring and flavoring agents was suggested and removal of properties of solutions-sugars and salts in Food Chemistry laboratory (19BTFT205).
2. 19BTFT404: Instead of two food analysis labs proposed, theory of Food Analysis, and one food analysis lab was suggested. To impart knowledge on Food adulterants and practical exposure to detect the adulterants in food products.
3. 19BTFT601: Food colorants and flavorants topics could be included.
4. 19BTFT8E05: Inclusion of the topic on single cell protein (spirulina).
5. Inclusion of lab components for bakery and confectionery, fruit and vegetable processing, dairy technology was recommended.
6. The shelf life experiment should be included in food packaging technology laboratory.
7. Bakery and confectionery theory paper should be kept in professional core instead of elective.

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

The UG program B. Tech. Food Technology consists of courses 54 out of which 15 courses come under the category of Science and Humanities, Management, and Allied Engineering Courses. **There is a syllabus changed in the course and hence total change =  $(9) / (39) = 23 \%$ .**

**KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE – 641 021**

Minutes of the meeting of the Board of Studies in **Architecture** held on **29.03.2019** at **10.00**am / pm in the **Faculty of Architecture.** at Karpagam Academy of Higher Education.

**Members Present:**

1. Ar.Kathiravan P,  
Dean i/c, Faculty of Architecture,  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021.  
Ph.No: 9994220005
2. Ar.Ramakrishnamoorthy M R,  
Head of the Department, Faculty of Architecture,  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021.  
Ph.No: 9597800315
3. Ar.Senthilkumar N  
Professor  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021,  
Ph.No:9003696077
4. Ar.Vimal C,  
Associate Professor,  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021,  
Ph.No:9629426939
5. Ar.Lingeshwaran  
Asso.Prof  
Associate Professor  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021,  
Ph.No: 8098736543
6. Dr.Harimohan Pillai  
Former - Educational Board Member, CoA  
Aradhana, 151 – Priyadarsini Nagar  
P O Ayyanthole  
Thrissur – 680003, Kerala, India  
  
Ph.No: 9447188446
7. Ar.Anjaneysh,  
272 C, Cross cut Road,  
Gandhipuram,  
Coimbatore – 641012.  
Ph.No:9942323639

The Chairperson welcomed the members of the Board. The Board carefully scrutinized the draft Regulations and syllabi and after detailed discussion the following resolutions were passed.

**Agenda: 1**

To consider and approve the Regulations and Syllabus for **B. Arch** programme for the Academic year 2019 - 2020.

**Changes made in B.Arch Syllabus:**

1. Theory of Architecture – I is changed as Art and Aesthetics Appreciation
2. History of Architecture – I – syllabus to be revised
3. Theory of Architecture – II is renamed as Theory of Architecture.
4. Concept of Structural systems introduced in Semester II instead of MOS I
5. Architectural Graphics - II is changed as Measure Drawing and Documentation
6. Building Materials and Construction - I is changed as Building Materials (Studio) in Semester I
7. Climate Responsive Architecture course is shifted to Semester III and made as Studio Subject (Course)
8. DOS – I is introduced in Semester III instead of MOS II
9. Village survey, study and documentation will be a part of Architectural Design III
10. DOS – II introduced in Semester IV instead of DOS I
11. Acoustics and Lighting course (Theory) is introduced in Semester IV
12. Advanced Structural Design course is introduced in Semester V
13. Estimation & Specification course Shifted to Semester VI
14. Vernacular Architecture course Shifted to Semester VI
15. The curriculum of semester VII and semester VIII has been changed - The Practical Training is shifted to Semester VII
16. Physical Planning, Interior Design, Sustainable Architecture courses are shifted to Semester VII
17. Housing course shifted to Semester IX
18. Project Management course shifted to Semester X
19. The Exam pattern for the Theory Subjects are proposed in the following manner

| Attendance | CIA-I Model Exam (written Exam) | CIA – II Viva Review-of all the units | Physical model | Site Visit | Internal Marks | External Marks | Total Marks |
|------------|---------------------------------|---------------------------------------|----------------|------------|----------------|----------------|-------------|
| 5          | 10                              | 10                                    | 10             | 5          | 40             | 60             | 100         |

**The change in syllabi is 20.5%**

**Resolution: 1**

Resolved to approve the Regulations and Syllabus for **B.Arch** programme and it comes into effect from 2019-20.

**Agenda: 2**

To consider adoption of the curriculum of **Semester VII and Semester VIII** for **B. Arch** programme from the academic year 2019-20.

**Resolution: 2**

Resolved to approve the adoption of the curriculum of **Semester VII and Semester VIII** for **B. Arch** programme from the academic year 2019-20

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



KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE – 641 021

Minutes of the meeting of the Board of Studies in B. Design held on 29.03.2019  
at 11.30 am / pm in the Faculty of Architecture, at Karpagam Academy of Higher  
Education.

Members Present:

1. Ar.Kathiravan P,  
Dean i/c, Faculty of Architecture,  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021.  
Ph.No: 9994220005
  
2. Ar.Ranjitha S,  
Head of the Department, Faculty of Architecture,  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021.  
Ph.No: 9965011122
  
3. Ar.Madhan M  
Professor,  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021,  
Ph.No: 9884222077
  
4. Ar.Janani Venkatesh  
Assistant Professor  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021,  
Ph.No:8056932837
  
5. Ar.Athira S  
Assistant Professor  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021,  
Ph.No: 9446957890
  
6. Ar. Bhuvanasundar  
Sundar Sundaram Architects,  
182, Thirugnanasambandam Rd,  
Race Course, Gopalapuram,  
Coimbatore – 641018,  
Ph.No: 9843011995

The Chairperson welcomed the members of the Board. The Board carefully scrutinized the draft Regulations and syllabi and after detailed discussion the following resolutions were passed.

**Agenda: 1**

To consider and approve the Regulations and Syllabus for **B.Design programme** for the Academic year 2019 – 2020.

No changes were suggested for B.Des (Interior Design) syllabus and curriculum.

**Resolution: 1**

Resolved to approve the Regulations and Syllabus for **B.Design programme and** it comes into effect from 2019 - 2020.

KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE – 641 021

Minutes of the meeting of the Board of Studies in **Architecture - M.Arch** held on **29.03.2019** at **10.00**am / pm in the **Faculty of Architecture** at Karpagam Academy of Higher Education.

**Members Present:**

1. Ar.Kathiravan P,  
Dean i/c, Faculty of Architecture,  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021.  
Ph.No:9994220005
2. Ar.Vimal C,  
Associate Professor,  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021.  
Ph.No:9629426939
3. Dr.Paul Varghese,  
X1/223, Kaliankara House,  
Railway Station Road,  
Irinjalakuda, Kerala – 680121  
Ph.No: 9446238770
4. Ar.Balakrishnaa V  
Senior Professor  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021,  
Ph.No:9842468559
5. Ar.Bhuvanasundar  
Partner  
Sundar Sundaram Architects,  
ThirugnanaSampantham Road,  
Race Course, Coimbatore -1  
Ph.No:9843011995

The Chairperson welcomed the members of the Board. The Board carefully scrutinized the draft Regulations and syllabi and after detailed discussion the following resolutions were passed.

**The change in syllabi is 3.9%**

**Agenda: 1**

To consider and approve the Regulations and Syllabus for **M.Arch** programme for the Academic year 2019– 2020.

No changes were suggested for M.Arch syllabus and curriculum.

**Resolution: 1**

Resolved to approve the Regulations and Syllabus for **M.Arch** programme and it comes into effect from 2019-2020.



KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE – 641 021

Minutes of the meeting of the Board of Studies in **Architecture - M.Plan** held on **29.03.2019** at **12.00** am / pm in the **Faculty of Architecture** at Karpagam Academy of Higher Education.

**Members Present:**

1. Ar.Kathiravan P,  
Dean i/c, Faculty of Architecture,  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021.  
Ph.No: 9994220005
2. Ar.Ramakrishnamoorthy M R,  
Professor,  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021.  
Ph.No: 9445167560
3. Ar.Sashikumar,  
Professor,  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021  
Ph.No: 9952664770
4. Ar.Balakrishnaa V  
Senior Professor  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021  
Ph.No: 9842468559
5. Ar.Hiranmayi S  
Assistant Professor  
Karpagam Academy of Higher Education,  
Coimbatore – 641 021,  
Ph.No: 9886813205
6. Ar. Vivit Samuel Vedaraj  
Senior Architect  
Central Public Works Department (CPWD),  
Madurai - 625017  
Ph.No: 9840992941
7. Ar.Valliyappan,  
Associate Professor  
School of Planning and Architecture  
Vijayawada – 521104  
Ph.No: 7702155400

The Chairperson welcomed the members of the Board. The Board carefully scrutinized the draft Regulations and syllabi and after detailed discussion the following resolutions were passed.

### **Agenda: 1**

To consider and approve the Regulations and Syllabus for **M.Plan** programme for the Academic year 2019 – 2020.

### **Agenda: 2**

To consider and approve the Regulations and Syllabus for **M.Plan** programme.

#### Changes made in Syllabus:

1. **19MPN101- PLANNING THEORY AND PRACTICE**
  - a. **UNIT I PLANNING PRINCIPLES AND PROCESS** - *Technical processes for land use, urban design, natural resources, transportation, & infrastructure planning.*
  - b. **UNIT II PLANNING THEORIES AND SYSTEM** - *Emerging Planning Concepts: inclusive city, safe city, Green City, Shadow city, Sustainable City,*
  - c. **UNIT III PLANNING SURVEYS** - *Tabulation of data, graphical presentation of data, techniques of graphical presentation of spatial data,.*
2. **19MPN102 - SOCIO – ECONOMIC AND SPATIAL ASPECTS OF HUMAN SETTLEMENTS AND PLANNING**
  - a. **UNIT I SOCIOLOGY CONCEPTS AND SOCIO-SPATIAL ASPECTS** - *Socio-cultural profile of Indian society and urban transformation;*
  - b. **UNIT IV URBAN LAND USE AND SETTLEMENTS ORGANIZATION** - *Policies and strategies in economic planning, balanced versus unbalanced growth, public sector dominance; changing economic policies, implications on land.*
3. **19MPN103 - TRAFFIC AND TRANSPORTATION PLANNING**
  - a. **UNIT I TRANSPORT DEVELOPMENT IN INDIA** - *Future Developments in transportation*
  - b. **UNIT II URBAN TRANSPORTATION SYSTEM & TRIP GENERATION ANALYSIS:** *Trip Generation Analysis: Trip Production Analysis; Category Analysis; Trip Attraction Modeling.*
  - c. **UNIT III MODE CHOICE MODELING AND TRIP DISTRIBUTION ANALYSIS:** *Disaggregate Mode-Choice Model, Logit Model of Mode-Choice, Binary Choice Situations, Multinomial Logit Model, Model Calibration.*
  - d. **UNIT IV TRIP DISTRIBUTION ANALYSIS AND ROUTE ASSIGNMENT** - *Route Assignment: Description of Transport Network, Route Choice Behaviour, The Minimum Path, Minimum Path Algorithm, Route Assignment Techniques, All-or-Nothing Assignment, Multipath Traffic Assignment, Capacity-Restrained Traffic Assignment.*
4. **19MPNE1A - PUBLIC TRANSPORT PLANNING**
  - a. **UNIT - 1 INTRODUCTION TO PUBLIC TRANSPORT SYSTEMS** - *Present scenario of road development in India*
  - b. **UNIT - 2 PUBLIC TRANSPORT PERFORMANCE AND ECONOMIC ASPECTS (Part 1)** - *Highway Transportation Costs,*
  - c. **UNIT - 3 PUBLIC TRANSPORT PERFORMANCE AND ECONOMIC ASPECTS (Part 2)**- *Road User Cost Study in India*
5. **19MPNE1B - TRANSPORT ECONOMICS**
  - a. **UNIT - 1 TRANSPORT DEMAND AND SUPPLY** - *Highway Transportation Costs, Road User Costs and Benefits*
  - b. **UNIT - 3 COSTING AND PRICING OF TRANSPORT SERVICES (Part 2)** - *Basic formulas-Methods-BCR-NPV-IRR–Their Basic Characteristics, Illustrative applications on above*
  - c. **UNIT - 4 PRINCIPLES OF ECONOMIC APPRAISAL** - *Break Even Analysis-Sensitivity Analysis. Case studies and problems.*
6. **19MPNE1C - DISASTER MANAGEMENT**
  - a. **UNIT III DISASTER POLICY AND RISK ANALYSIS** - *Risk Analysis: Its concept and analysis, Risk Reduction, Vulnerability : Its concept and analysis,*
  - b. **UNIT IV DISASTER AND TECHNOLOGY** - *Development planning tasks at the pre-disaster and post- disaster stages. Traditional methods of planning and construction,*

7. **19MPNE1D - REAL ESTATE AND HOUSING MARKETS**
  - a. **UNIT I INTRODUCTION** - Modes for conducting Real Estate Business. Seven Stages of Real Estate Development
  - b. **UNIT II INVESTMENT AND LAWS** - Different kind of Agreements used in Real Estate Business
8. **19MPNE1E-MATERIALS, TECHNOLOGY AND INFRASTRUCTURE**
  - a. **UNIT - 1 INTRODUCTION TO MATERIALS AND TECHNOLOGY** - Indian scenario and Global scenario.
  - b. **UNIT - 3 CONSTRUCTION INDUSTRY** - Consumer satisfaction.
  - c. **UNIT - 4 COST OPTIMIZATION** - Budgeting and budgetary control, Budgeting process, fixed and flexible budgeting, Types of budgets,
9. **19MPN201- CITY PLANNING**
  - a. **UNIT I INTRODUCTION** - Urban development – schemes, acts and mission
  - b. **UNIT III ZONAL PLAN AND DEVELOPMENT CONTROL RULES** - Conservation and improvement of environment, Compliance of government policies, Zoning, Development regulations, Resource mobilization and Implementation mechanism.
  - c. **UNIT IV CASE STUDIES-** Sustainable cities, Counter magnets,
10. **19MPN202 - REGIONAL PLANNING**
  - a. **UNIT I CONCEPT OF REGIONAL PLANNING** - Economy, competitiveness, Special Regions: SEZ, Agro Regions, Ecological regions, etc.
  - b. **UNIT III GROWTH MODELS** - Sector theory, Stage theory, Export base, model, Theory of Industrial Locations, Cumulative Causation Theory, **UNIT IV REGIONAL DEVELOPMENT PATTERN**- ore, Fringe and Periphery in a Region and its planning; Tools and techniques available for planning regions in India;
  - c. **UNIT V CASE STUDIES** - Kolkata Metro Region, Chennai Metro Region, and other Metro Regions in India.
11. **19MPN203 - RESEARCH METHODOLOGY**
  - a. **UNIT I RESEARCH AND PLANNING** - Descriptive vs .Analytical, Applied vs Fundamental, Quantitative vs. Qualitative, and Conceptual vs. Empirical.
  - b. **UNIT IV DATA ANALYSIS-** Probability Distribution and Sampling Distribution, Correlation and Regression,
  - c. **UNIT V REPORT WRITING** - Application of results of research outcome,
12. **19MPNE2A - RURAL AND URBAN HOUSING**
  - a. **UNIT II HOUSING POLICIES-** National planning and rural development, concept of planning for rural settlements. Regional development and urban rural partnership
  - b. **UNIT III HOUSING IN RURAL** - Public participation in rural development process, role of voluntary organizations.
13. **19MPNE2B - PLANNING LEGISLATION AND PROFESSIONAL PRACTICE**
  - a. **UNIT II ACTS AND RULES GOVERNING LOCAL BODIES** - Improvement Trust Act, Development Authorities Act, Land Acquisition Act 1986, Rent Control Act, Apartment Ownership Act 1983,
  - b. **UNIT III ACTS RELATED TO PLANNING AND IMPLICATIONS OF LAWS AND LEGISLATION ON DEVELOPMENT** - Significance of land development controls – Zoning, subdivision regulations, building regulation and bye-laws
  - c. **UNIT IV PROFESSIONAL PRACTICE** - role in decision making processes and the process in relation to varied consultancy assignment of planning.
14. **19MPNE2C - GIS MODELING IN URBAN AND REGIONAL PLANNING**
  - a. **UNIT II SPATIAL DATA INPUT** - Types of data, spatial and non spatial data, data structure, points, lines, polygon, vector and raster, files and file organization, database, data entry, digitizer, scanner, Dbase, files and data formats, data compression.
  - b. **UNIT III ATTRIBUTE DATA INPUT** - Satellite images as input to GIS;
  - c. **UNIT IV SPATIAL ANALYSIS USING GIS** - Automated mapping and facility management (AM/FM).
15. **19MPNE2D - URBAN DEVELOPMENT AND MANAGEMENT**
  - a. **UNIT II URBAN DEVELOPMENT MANAGEMENT** - Techniques of land assembly: acquisition, readjustment, pooling, sharing, plot reconstitution, land lease, cooperative of landowners;
  - b. **UNIT - III LAND AND REAL ESTATE (PART 1)** - Regulation in Land Markets, Land Management Techniques.
  - c. **UNIT IV LAND AND REAL ESTATE (PART 2)** - Land valuation techniques, land pricing, subsidies, auctions; type of development: plotted, flatted system, and their effect on land pricing. Hedonistic pricing, land price behavior in urban centers; constructing the land price index;.

**16. 19MPNE2E - INCLUSIVE URBAN PLANNING**

- a. **UNIT I Understanding inclusive urban planning** - Sustainable development goals.
- b. **UNIT II Stakeholders Profile And Needs, Access To Shelter, Services And Livelihoods (Part 1)** - *improving the inclusivity of urbanization, Methods of inclusivity.*
- c. **UNIT III Stakeholders profile and needs, access to shelter, services and livelihoods (part 2)** - *location characteristics of settlements.*
- d. **UNIT IV Participatory planning & policies, programmes & legislation** -
- e. *Examine the practice of participatory methods in national/regional policy making and planning exercises.*

**17. 19MPN301 - ENVIRONMENTAL PLANNING**

- a. **UNIT I DEVELOPMENT CONSEQUENCES ON ENVIRONMENT**- *Introduction to State and National policies.*
- b. **UNIT II ENVIRONMENTAL MANAGEMENT AND STANDARDS** - *Environmental Zones (Hill, coastal, arid, characteristics, resources, settlements pattern, problems and potentials, regulating mechanisms for development*
- c. **UNIT IV ENVIRONMENTAL DECISION MAKING** - *Appropriate technologies and applications.*
- d. **UNIT V ENVIRONMENTAL APPROACH IN PLANNING** - *Environmental performance evaluation.*

**18. 19MPN302 - PROJECT FORMULATION AND IMPLEMENTATION**

- a. **UNIT I INTRODUCTION TO PROJECT FORMULATION** - *Creating a Project Proposal (Establishing Objectives, scoping the boundaries,*
- b. **UNIT II PROJECT ANALYSIS** - *Estimation in Project Proposal*
- c. **UNIT IV PROJECT FINANCING AND IMPLEMENTATION** - *Project resource management (Overview and types of resource, Resource constraints & Scheduling, Allocation methods, Resource vis-à-vis other Activities of project planning).*
- d. **UNIT V PROJECT MONITORING AND EVALUATION** - *Risk Management , Time Management , Project Monitoring and Controlling (Monitoring process (time, cost, resource), control processes, earned value cost/schedule system, variance analysis, CBA and other techniques)*

**19. 19MPNE3A - ENVIRONMENTAL DESIGN**

- a. **UNIT – 1 EVOLUTION OF ENVIRONMENTAL DESIGN, THEORY AND PRACTICE** -
- b. *Concepts of urban ecology - Theories of urban ecology and linkages with sustainable urbanism,*
- c. **UNIT – 4 URBAN CLIMATOLOGY, ACOUSTICS AND CLIMATE CHANGE** - *change challenges in cities.*
- d. **UNIT – 5 URBAN CLIMATOLOGY, ACOUSTICS AND CLIMATE CHANGE II** - *Understanding Climate Change: Greenhouse gases, Anthropogenic causes, Carbon Cycle, Global Warming, Inventory of GHGs.*

**20. 19MPNE3B - ENVIRONMENTAL IMPACT ASSESSMENT**

- a. **UNIT – 2 METHODS OF EIA** - *Environmental Settings, Impact Prediction and Evaluation, Methods of EIA; advantages and limitations, Documentation and Monitoring, EIA Effectiveness, EMP's*
- b. **UNIT – 3 ASSESSMENT OF IMPACTS** - *Exposure to Project specific TOR s and EIA Manuals*
- c. **UNIT – 4 STRATEGIC ENVIRONMENTAL ASSESSMENTS**- *Sectoral environmental assessment, Strategic Environmental Assessment: Key concepts, SEA Legislation and Process, Regulatory and Planning Framework of SEA and Implementation, SEA Tools and Techniques*
- d. **UNIT – 5 APPLICATION OF APPROPRIATE TECHNIQUES FOR EIA** - *Risk assessment / Vulnerability assessment, Sustainability, Appraisal, Carrying capacity / Environmental thresholds,*

**21. 19MPNE3C - ENVIRONMENTAL LEGISLATION, EVALUATION AND PRACTICES**

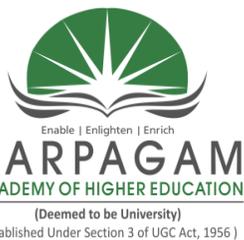
- a. **UNIT 1 ENVIRONMENTAL LEGISLATION (Part 1)**- *Mines and Mineral Act., Factories Act., Pesticides Act, Indian Forest Act., Wildlife Act,*
- b. **UNIT 3 PLANNING LEGISLATION (Part 1)** - *Concept of Law: Source of law (i.e. custom. legislation and precedent), meaning of terms of law, legislation, ordinance, Bill, Act, Regulations and Bye-laws. Significance of law and its relationship to Urban planning benefit of statutory provisions- eminent domain & police powers.*

- c. **UNIT 4 PLANNING LEGISLATION (Part 2)** - Evolution of Planning legislation. An over view of legal tools connected with Urban Planning and Development, Town and Country Planning Act, Improvement Trusts Act,
  - d. **UNIT 5 ARBITRATION AND LAND DEVELOPMENT CONTROLS** - Concept of Arbitration; Betterment levy; development charges and public participation in Statutory planning process;
- 22. 19MPNE3D - WEB BASED APPLICATIONS TO URBAN AND REGIONAL PLANNING**
- a. **ROLE OF WEB BASED TECHNOLOGY IN PLANNING** - Process and systems in Organization involved in planning,
  - b. **19MPNE3E - PLANNING FOR TOURISM**
  - c. **UNIT I INTRODUCTION TO TOURISM** - Types of tourism, The basic components of tourism, The elements of tourism, Importance of tourism
  - d. **UNIT II TOURISM SECTOR – IMPACTS** - Economic impacts of tourism development, Socio-cultural impacts of tourism development, and Environmental impacts of tourism development
  - e. **UNIT III PLANNING FOR TOURISM (PART 1)** - Interactive planning vs. Conventional planning in tourism, Environmental and socio-cultural considerations in planning, Common sequence/ levels in tourism planning,
- 23. 19MPN401 - URBAN GOVERNANCE AND INSTITUTIONAL MANAGEMENT**
- a. **UNIT I INTRODUCTION: BASIC CONCEPT & LEGAL PROVISIONS** - Organizational interfaces, People and community, Land as basic resources, Environment and Ecology, Distinctive feature of nagar panchayat and NMU,
  - b. **UNIT II URBAN AND METROPOLITAN PLANNING** - Essential concepts of planning and developments, Regional and metropolitan planning, Urban planning, Urban infrastructure and services.
  - c. **UNIT IV URBAN ISSUES AND RISK MANAGEMENT** - Traffic and transportation management, Traffic and transportation management.

**The change in syllabi is 61.5%**

**Resolution: 1**

Resolved to approve the Regulations and Syllabus for **M.Plan** programme and it comes into effect from 2019 - 2020.



## FACULTY OF PHARMACY KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

(Established Under Section 3 of UGC Act 1956)

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### **Minutes of Meeting of Board of Studies 2019 – 20 for B.Pharm Degree Course**

Minutes of the meeting of the Board of Studies in Pharmacy held on 26.03.2019 at 01.30 PM in the Faculty of Pharmacy at Karpagam Academy of Higher Education.

#### **Members Present:**

1. Dr. R. Sundaraganapathy, Dean, Faculty of Pharmacy, KAHE, Coimbatore.
2. Mr.M.Kannan, Associate Professor, Dept. of Pharmacology, FOP, KAHE, Coimbatore.
3. Mrs. K. Gayathri, Dept. of Pharmaceutics, FOP, KAHE, Coimbatore.
4. Mr.V.Shivakumar, Dept. of Pharm. Chemistry, FOP, KAHE, Coimbatore.
5. Dr.R.Sambathkumar, Professor & Principal, J.K.K.Nattraja College of Pharmacy, B.Komarapalayam, Namakkal.
6. Dr.V.Loganathan, Professor, Faculty of Pharmacy, KAHE, Coimbatore. (Special Invitee)

The Chairperson welcomed the members of the Board and granted leave of absence for Mrs. G.Praveena, Assistant Professor, Faculty of Pharmacy, KAHE, Coimbatore and Dr. R.K.Janakiraman, Senior Executive, FR&D, Strides Shasun Pharmaceuticals Ltd., Puducherry. The Board carefully scrutinized the draft syllabus / syllabi and after detailed discussion the following resolutions were passed.

#### **Agenda: 1**

To consider and approve the regulation and syllabus for **B.Pharm, M.Pharm (Pharmaceutical Analysis) & Pharm.D** program as per PCI for the Academic year 2019 – 20.

**Resolution: 1**

Resolved to approve the regulation and syllabus for **B.Pharm, M.Pharm (Pharmaceutical Analysis) & Pharm.D** program and it comes into effect from Academic year 2019 – 20. (Approved Syllabus given in Annexure – I).

**Agenda: 2**

To consider and approve the regulation and syllabus for **B.Pharm** program– V & VI Semesters (B.Pharm Third year) for the Academic year 2019 – 20as per PCI.

**Resolution: 2**

Resolved to approve the regulation and syllabus for **B.Pharm** program – V & VI Semesters (B.Pharm Third year)with effect from Academic year 2018 – 19(Approved Syllabus given in Annexure – II).

**Agenda: 3**

To consider and approve the regulation and syllabus for Ph.D programme for the Academic year 2019 – 20.

**Resolution: 3**

Resolved to approve the regulation and syllabus for Ph.D programme for the academic year 2019– 20.

**Ph.D. Syllabus**

The overall percentage of content change in the syllabus is 20%

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