



KARPAGAM
ACADEMY OF HIGHER EDUCATION
(Deemed to be University)
(Established Under Section 3 of UGC Act, 1956)

KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

(Established Under Section 3 of UGC Act, 1956)

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

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This is to certify that the enclosed pages (2 to 102) consist of the minutes of the meeting of the Board of Studies conducted during the year 2018 – 2019

Year	2018 -2019
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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.



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KARPAGAM ACADEMY OF HIGHER EDUCATION

COIMBATORE – 641021

Minutes of the meeting of the Board of studies in Astrology held on 07/06/2018 at 2 pm in the Department of Astrology at Karpagam Academy of Higher Education

Members present

1. Dr.K.P. Vidhyadharan
2. Dr.S.Palanisamy
3. Dr. V. Lakshmi
4. Dr. L. Elumalai
5. Dr. Natraj. K

The chairperson welcomed the members of the board. Leave of absence granted to Dr.S.N.Sivanandham and Dr.V.Jayabal. The board carefully scrutinized the draft syllabus/ syllabi and after detailed discussion the following resolution were passed.

Agenda 1:

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

Resolution :

Resolved to approve the Regulations and syllabus for M.Sc Applied Astrology programme and comes into effect from 2018 – 2019 (approved Regulation and syllabus given in Annexure – II)

Proposed change:

I semester :

Subject code 101 : Fundamentals of Astrology - contents added and new reference books were added

Subject code 102 : Planets in Astrology-I

3rd and 4th unit contents slightly modified, 5th unit added – Dasas of the planets, different types of dasas, Dasa Bukthi, antharam_and sookma calculations.

Subject code 103 – Horary Astrology methods -II – Unit 3 and 4 no changes, other units content altered, The topics of Chozhi, vethilai and thengai prasnam added.

Subject code 104 – Rasi – Bhava – Star constellations – I

Subject code – 105 (A) Numerology (elective)

Subject code – 105(B) Fundamentals of Vasthu (elective)

Subject code – 105© Samuthrika Laskshanam (elective)

In all the above papers alterations were made.

Sub code 111 – Predictive methods in Astrology – I →Unit1,2,5 content changed to predictions according to topics

Sub code 112 – Unit1, 4 contents were modified – reference books were added.

II semester :

Subject code 201 – Added Jataka Chandrika in the 2nd unit, other units also content modified.

Subject code 202 –Unit 1, 2,4 content changed, Merged 5th unit with the 3rd unit, 5th unit becomes Effects of dasa and bukthi of planets.

Subject code 203 – Unit1 is changed as Prasna for long distance travels, other units also altered

Subject code 204 – Rasi – bhava – Star constellations – I

Unit 4 – contents redrafted.

Unit 1,3 – contents added.

Subject code 205 (B) – content added and new reference books added

Subject code 211 [Practical]- 5th unit changed to phalas according to Uttara Kalamirtham.

Subject code 212 [Practical] – 3rd unit changed to predictions according to Palmistry

III semester :

Subject code 301: contents slightly changed

Subject code 302 - Muhurtha in Astrology modified the contents .

Subject code 303 - Medical Astrology new contents were added.

Subject code 304: Contents were altered

Subject code 305 – Dasabukthi predictions was replaced with a new practical paper Marriage matching -
- 311.

Subject code 312 – The units are

Unit 1 – Predictions for lagna lordship of 12 signs.

Unit 2 – Predictions for star lord of lagna

Unit 3 – Predictions as per vimshotari dasa

Unit 4 – Transit predictions using Ashtavarga points of natal horoscope

Unit 5 – Prediction as per Western Astrology

For all the above papers, no changes in subject heading but the contents were slightly altered and average percentage content change is 27% .

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

Subject Code : 15RAS101 - Research Methodology and Pedagogy

Subject Code : 15RAS201 - Prediction Astrology

Subject Code : 15RAS301 - Special Paper - History of Astrology

Subject Code : 15RAS302 - Special Paper - Predictions in K.P method

Subject Code : 15RAS303 - Special Paper - Western Astrology

Subject Code : 15RAS304 - Special Paper - Marriage matching

Subject Code : 15RAS305 - Special Paper - Case studies in horoscopes

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

Reference books were also added.

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 – 2018-2019

Minutes of the meeting of the Board of Studies in **Biochemistry** held on **08.06.2018, 10.00 am** at **Department of Biochemistry department (UG Lab)**, Karpagam Academy of Higher Education.

Members Present:

1. Dr. K. Devaki (Chair person)
2. Dr. K. Poornima
3. Dr. Sridhar Muthusami
4. Dr. L. Hariprasath
5. Dr. D. Selvakumar
6. Dr. P. Ravi (Academic expert)
7. Dr. C. Arul Raj (Industrial expert)

Agenda: 1

1. To consider and approve the Regulations and Syllabus for **UG and PG Biochemistry** programmes.

Resolution: 1

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

Agenda: 2

1. To consider and approve the Syllabus for Research Programmes in **Part IBiochemistry (M. Phil and Ph. D)**.

Resolution: 2

1. Resolved to approve Part I Syllabus for Research Programmes in **Biochemistry (M. Phil and Ph. D)** and it comes into effect from 2018-19 (Approved Syllabus given in Annexure-II).

Agenda: 3

1. To consider and approve the Syllabus for Certificate course on “**Allied UG and PG Biochemistry and Microbiology**”.

Resolution: 3

1. Resolved to approve Regulations and syllabus for Certificate course on “**Allied UG and PG Biochemistry and Microbiology**” without any changes and it comes into effect from 2018-19.

Change in the syllabi (%)		
UG	PG	M.Phil/Ph.D
8%	16.66%	0%
The total number of course in the UG programme Biochemistry consists 53 courses (excluding languages). Total percent of change = $430/56 = 8\%$.		
The total number of course in the I year PG programme Biochemistry contains 27 courses. Total percent of change is $112/27 = 4\%$.		
M.Phil and Ph.D Biochemistry syllabi approved with changes in two courses. Total percentage of changes = $90/8 = 11\%$		

ANNEXURE – 1

B.Sc., Biochemistry

- Chemistry I (Odd Semester) and Chemistry II (Even Semester) (Both theory and practicals) were included (for II Year Biochemistry) in the curriculum as per the suggestions made in the BoS and academic council meeting.
- **In Semester III**, the skill enhancement course – **Tools and techniques in Biochemistry (18BCU304A)** the following changes were made as per the expert member comments:
- Some of the topics in Unit II are shifted to Unit I (Proper techniques on the use of a pipette, volumetric flask, Use, calibration and maintenance of micropipette)
- The contents of Unit III shifted to Unit II and the topic colorimetry is added with required subheadings.
- Inclusion: New Unit IV: Radioisotopes

- The course **Hormone: Biochemistry and Function (17BCU 303)** and its practical **Hormone: Biochemistry and Function Practical (17BCU313)** were placed in Semester V as **Hormone: Biochemistry and Function (18BCU501)** and its practical **Hormone: Biochemistry and Function Practical (18BCU511)**
- The course on **Immunology (17BCU403)** from Semester IV was shifted to Semester VI as **Immunology (18BCU601)** and its corresponding practical **Immunology (17BCU413)** from Semester IV was shifted to Semester VI as **Immunology (18BCU611)** respectively.

M.Sc., Biochemistry

- In Semester I, in **Chemistry of Biopolymers (18BCP101)**, as per the suggestion of expert physical and chemical properties of water was removed. The contents were improved by adding topics like brief review of carbohydrates in Unit I, review of structure and classification of amino acids in Unit II and classification, structure and functions of lipids, eicosanoids – prostaglandins, thromboxanes and leukotrienes in Unit III.
- In course **Quantitative Estimation and Separation Techniques (18BCP111)** the Estimation of methionine (sodium nitro prusside method), determination of saponification and iodine number of fat or oil are added.
- In **Enzymes and Microbial Technology (18BCP102)**, the investigation of active site structure in Unit I, Biosensors – Glucose oxidase, cholesterol oxidase, urease and antibodies as biosensors in Unit III and Biopesticides, leaching of ores by microbes, microbial treatment of waste water – aerobic and anaerobic methods in Unit V are added.
- In **Cellular Biochemistry (18BCP104)**– the topic Longmuir trough, metamorphic mosaic model, techniques for determination of membrane protein topology in Unit I and fibrillin , elastin in Unit IV are included.
- In **Plant Biochemistry (18BCP105A)**the topics like solute transport and photoassimilate translocation – uptake, transport and translocation of water, ions, solutes and macromolecules from soil in Unit I, cytochromes and phototropins, stromal movement, photoperiodism and biological clock in Unit IV and plant transformation technology – Ti and Ri plasmid and their transfer mechanism, methods of transformation, *Agrobacterium* mediated transformation in Unit V are added.
- In Semester I instead of course Plant Biotechnology (17BCP105B), **Ecology and Evolutionary Biology (18BCP105B)** are added by pursuing the Delhi University Syllabi and CSIR – NET syllabus and it was approved by the expert members.

- **In Semester II in Regulation of Metabolic Pathways (18BCP201)** the topics such as alternative pathways of metabolism- HMP shunt, Entner-duedoroff pathway, glucuronate and glyoxylate, cori cycle in Unit II, metabolism of prostaglandins –COX and LOX pathways, metabolic fate of VLDL, LDL and HDL, in Unit III, regulation of synthesis of pyruvate, serine, glutamate, aspartate, aromatic and histidine family of amino acids (Flow chart only). Catabolism of carbon skeleton of amino acids in Unit IV and metabolism during starvation in Unit V are added.
- **In Bioinformatics (18BCP204)** - The topics like dynamic programming algorithms: Meedleman and Wunsch, Smith-Waterman, introduction and application of phylogenetic trees, basic terminologies in Unit II are added, Model refinement, evaluation of the model, concepts of molecular modeling in Unit III are added, genome sequencing, genome databases, SWISS-2D PAGE database in Unit IV , Introduction to molecular dynamics, simulation, structure based and ligand based drug desgining are added in UnitV.

ANNEXURE –II

M.Phil/Ph.D Biochemistry

In Paper I (18RBC101) Research methodology and Pedagogy, Unit I to II are shifted to paper II Advanced paper in Biochemistry (18RBC201), by removing the first two Units.

In Paper II - Advanced paper in Biochemistry (18RBC201) – Unit IV and V are merged after removing some basic topics.

As per the suggestions given by the external expert the syllabus for Research methodology and Pedagogy has been reframed after pursuing Bharathiar, Madras and Delhi Universities syllabus. The topics related to the identification of research problem, research design and process are added.

In Unit II all sampling methods, probability and non probability sampling – sampling size, sampling process –Hypothesis and its formulation, sampling distribution – Students- t test, experimental design- CRD, RBD. Analysis of experimental results – ANOVA and its interpretation Duncan’s Multiple Range test interpretation.

In Unit III the topics like data collection, scaling techniques, scale construction, hypothesis testing, coding, editing, tabulation analysis and correlation and regression are newly added.

KARPAGAM ACADEMY OF HIGHER EDUCATION
COIMBATORE – 641 021

Minutes of the meeting of the **Board of Studies in Biotechnology** held on **June 12, 2018** at **10.00 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 Eductaion, Coimbatore – 641 021
2. **Dr. R. Thilagavathy,**
Associate Professor & Head (i/c), Department of Biotechnology,
Faculty of Engineering,
Karpagam Academy of Higher Eductaion, Coimbatore – 641 021
3. **Dr. R. Usha,**
Associate Professor, Department of Microbiology, FASH,
Karpagam Academy of Higher Eductaion, Coimbatore – 641 021
4. **Dr. A. Sangilimuthu,**
Department of Biotechnology, KAHE, Coimbatore – 641 021
5. **Dr. P. Rajiv,**
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. 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 (**First and Second Semester**).

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 **2018-19** (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.

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 **2018-19** (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.

Resolution: 3

1. Resolved to approve the Regulations and Syllabus for **M.Phil/Ph.D., Biotechnology** programme and it comes into effect from **2018-19** (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 (2018-19)

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

In regard to the syllabus for **B.Sc., Biotechnology** programme, **no corrections** have been suggested to include and also suggested to follow the previous year (2017-18) syllabus of **B.Sc., Biotechnology** programme for the academic year 2018-19.

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.

Semester – III

I.P.R., Entrepreneurship, Bioethics & Biosafety (18BTU304A)

- Addition of the topic, ISI levels in unit V.

Bio- Analytical Tool (18BTU304B)

- Inclusion of the topics, HPTLC, MS, GC-MS, and LC-MS in unit III.
- Inclusion of 2D- gel electrophoresis in unit IV.
- In unit V, inclusion of Biosensors, Biochips, Microarray topics
- In unit V, removal of the topic - Introduction to Biosensors and Nanotechnology and their applications.

Molecular Biology Practical (18BTU312)

- Addition of the topic, Preparation of buffers and solution in Experiment No. 1.

Semester – IV

Recombinant DNA Technology (18BTU402)

- Change of the topic as vector types in unit I.
- Inclusion of Role of Embryonic Stem cells in gene targeting in mice at Unit V.

Industrial Fermentation (18BTU404A)

- Change of the Unit I title as Introduction to industrial fermentations instead Microbial products.
- Inclusion of Primary metabolism – its significance and products.
- Removal of Over production of microbial metabolite
- Re- ordered the units IV as Unit III and Unit III as IV for clear teaching and learning.

Enzymology (18BTU404B)

- Change of unit V title as Applications of Enzyme Technology.

Bioprocess Technology Practical (18BTU411)

- Addition of the topic, Isolation of industrially important microorganism from natural resources as Experiment No. 1.

Industrial Fermentation Practical (18BTU414A)

Inclusion of the following experiments along with the other experiments

- Immobilization of bacteria and enzymes.
- Production of Butanol from biomass.
- Production of any one microbial flavours.
- Biogas/biohydrogen production from waste biomass.

Enzymology Practical (18BTU414B)

Addition of the following experiments

- Preparation of buffer and matrix to separate enzyme from natural resource.
- Enzyme zymography amylase / protease.

Semester – V

Basics of Forensic Science (18BTU501B)

- In Unit V: Addition of the topic, Cyber Crime

Bioinformatics (18BTU502A)

- **Re-arrangement of the unit I content as** Introduction to Bioinformatics – History and Milestones. Data sequence sources- NCBI, EMBL, GenBank, Entrez, UNIGENE. Human genome project.

Animal Biotechnology (18BTU504A)

- In unit III – Inclusion of the topic, Gene Gun
- In Unit V – Addition of the topics, Introduction to transgenesis. Transgenic Animals – Mice, Cow, Pig, Sheep, Goat, Bird, Insect. Zebra Fish to be included.

Evolutionary Biology Practical (18BTU513B) -

- Inclusion of Phylogeny as experiment.

Semester – VI

Molecular Diagnostics (18BTU601A)

- Unit V - Change of the unit title as Application
- Inclusion of the following contents: PCR, reverse transcriptase PCR, fluorescence microscopy, Hybridization methods like Southern, Northern blotting, FISH, DNA and RNA fingerprinting in Unit V.

Biotechnology and Human Welfare (19BTU601B)

- In unit I, Change of the title as Introduction
- Inclusion of the topics, Fermentation, Types of fermentation, Downstreaming processing, fermented foods in Unit I
- Unit II, Addition of the topics, Insect resistance, Drought resistance, Biofertilizers, Biopesticide and Biocontrol agents
- In Unit V, change of the unit title changed as Medical Biotechnology
- Inclusion of the following contents, Types of gene therapy, Stem cell technology, Targeted gene therapy, ethical issues, diagnostics in Unit V.

Medical Microbiology (18BTU602A)

- Addition of the following contents
- Bacterial infection, Medical importance of salmonellosis, Shidellosis in Unit II.
- Unit III – addition of Reoviruses, Adenoviruses.

Environmental Biotechnology (18BTU602B)

In UNIT- II: Inclusion of the following contents

- Aerobic and anaerobic treatments of SWM, Composting, Vermicomposting, Biogas production, Treatment of Hazardous waste, treatment strategies of PCBP.
- Biomedical wastes, Types of biomedical waste, Hazards caused by Biomedical waste,
- Treatment strategies of Biomedical waste.

BIOSTATISTICS (18BTU603A)

- Inclusion of Statistical software R or SAS and its implementation in Unit V.

Environment Management (18BTU603B)

- Addition of Environment impact assessment in Unit III.
- Unit IV – Inclusion of Biotechnological aspects of pollutant management.
- Unit V – Inclusion of Disaster management and Industrial safety and its product management

Molecular Diagnostics Practical (18BTU611A)

- Inclusion of PCR as demonstration experiment as Experiment No. 6.

Medical Microbiology Practical (18BTU612A)

- Addition of Hanging drop method as experiment No. 6.

In all the subjects, members have suggested to include the new editions of the references, text books and also to include available web links, e-learning resources.

The above suggested contents impart knowledge and train the students to meet with the need of current biotechnology and allied field industries.

The UG programme, B.Sc., Biotechnology consists of 65 courses, out of which four are language and general courses. The total changes is in 21 courses $21/65 \times 100 = 32.30\%$

Annexure – II

M.Sc (Biotechnology)

The following corrections and suggestions is included in M.Sc (Biotechnology) syllabus (2018-19)

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

- Change of Bioinstrumentation and Biostatistics (18BTP104) subject as core course instead of on elective paper
- Inclusion of Ecology, Evolutionary and Developmental Biology (18BTP103) subject as core subject
- Merging the two basic subjects, Biochemistry, Microbiology (18BTP101) into one course – Biochemistry and Microbiology and respective change of practical subject to match with the theory.
- Change of Biosafety and IPR (18BTP105A) as elective subject from second semester to first semester in order to make the students in understanding the necessity and importance of safety aspects during the laboratory usage and the protection of scientific knowledge by IPR.
- Change to offer the Food Biotechnology subject from first semester to third semester.

Semester – II

- In order to provide the theoretical concepts of downstream processing, the Bioprocess Technology subject content has to be included in Fermentation Technology and renaming of the subject as Fermentation and Bioprocess Technology (18BTP202).
- Inclusion of the Enzyme Technology (18BTP203) subject to meet the need of industrial aspects.
- Inclusion of Agricultural Biotechnology (18BTP205B) as elective paper to impart the role of biotechnology in agriculture field.
- Change of Environmental Biotechnology (18BTP304) from second semester to third semester.
- Recombinant DNA technology (18BTP201) may leads to industrial production through fermentation process. Thus, the practical subjects are revised and included the fermentation and downstream processing techniques in addition to rDNA techniques and suggested as Recombinant DNA, Fermentation and Bioprocess Technology Practical.

- Most of the enzymes are used as catalyst in immune aspects and techniques, suggested to include Immuno- and Enzyme Technology Practical subject (18BTP212)
- The above suggested practical's impart knowledge and train the students to meet need of trained manpower in the current biotechnology and allied field industries.

Semester – III

- Merging the two subjects, Plant Biotechnology and Animal Biotechnology into one subject as new course Plant and Animal Biotechnology (18BTP301) and respective change of practical subject to match with the theory.
- Merging of the two subjects, Bioinformatics and Genomics and Proteomics into one subject as new course Genomics, Proteomics and Bioinformatics (18BTP302) and respective change of practical subject to match with the theory in order to make the students in understanding the necessity and importance of the interlinked usage of the bioinformatics aspects in genomics and proteomics.
- Inclusion of Applied Biotechnology (18BTP305A) as elective subject in order to provide the importance of the biotechnology applications in all other allied fields.
- Inclusion of new course Tissue Engineering and Regenerative medicine (18BTP305C) as elective subject in order to provide the fundamental concepts in tissue engineering and regenerative medicine which can be used for subsequent employment in biomedical and clinical research environments.
- Change of the course contents in order to provide extensive knowledge in the elective subject, Tissue Engineering and Regenerative medicine.

Plant and Animal Biotechnology (18BTP301)

- In Unit IV – removal of the topic, Stem cell research

Food Biotechnology (18BTP303)

- Re-arrangement of the Unit IV and V as Unit V, and IV respectively.
- Inclusion of adulteration topic in Unit V and re-arrangement of the unit contents for proper understanding of the topics. Sensors used for analysis to be added.
- Inclusion of the topic, Detection systems and sensors in Unit V.
- Inclusion of FSSAI guideline in Unit V in order to provide the regulations of food safety to students.

Environmental Biotechnology (18BTP304)

- Re-arrangement to the Unit 1 contents as mentioned: Ecosystem – Concept and management of ecosystems. Energy budget. Energy Transfer and energy pyramids. Environmental pollution and its problems- Air, water, soil. Biogeochemical cycle (Carbon, nitrogen and phosphorous cycle). Response of plant, animal and microbes to external factors
- Inclusion of the topic, Bioleaching in Unit II

- In Unit V - Addition of the topic, Biodiesel, Microbial Fuel Cell, Sustainability, Maintenance and Swatch Bharat aspects in environmental biotechnology.

In all the subjects, members have suggested to include the new editions of the references, text books and also to include available web links, e-learning resources.

The PG programme, M.Sc., Biotechnology (I & II semester) consists of 18 courses. There is a syllabi change in five courses and hence total change $12/18*100 = 66.67 \%$.

Annexure – III

M.Phil/Ph.D., Biotechnology

In regard to the syllabus for **M.Phil/Ph.D., Biotechnology** programme, the following improvements have been suggested to include

- Addition of new subjects in Paper III subjects
 - Food Technology
 - Structural Biology
- Suggested to include topic “FASSI” in Food Technology subject.
- **no corrections** have been suggested in other subjects and also suggested to follow the previous year (2017-18) syllabus of **M.Phil/Ph.D., Biotechnology** programme for the academic year 2018-19.

The M.Phil/Ph.D programme in Biotechnology consists of 10 courses. There is an addition of two new courses and hence total change $2/10*100 = 20 \%$.

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 Chemistry held on 11-6-2018 at 10.30 am in the Department of Chemistry at Karpagam Academy of Higher Education.

Members Present:

1. Dr.S.Ravi
Professor & Head
Department of Chemistry
Karpagam Academy of Higher Education,
Coimbatore 641 021
2. K.J.Rajendra Prasad,
Emeritus Professor,
Department of Chemistry,
Bharathiar University,
Coimbatore
3. Mr. Siva Shanmugam
Polyhedron Laboratories (P) Ltd,
49/12 4th Cross West,
Ganapathy Nagar, Collectorate P.O.,
Erode-638 011, Tamil Nadu.
4. Dr.A.Kathiresan,
Professor in Chemistry (S & H)
Karpagam Academy of Higher Education,
Coimbatore 641 021
5. Dr.K.Shankar,
Assistant Professor in Chemistry (S & H)
Karpagam Academy of Higher Education,
Coimbatore 641 021
6. Dr.A.Thangamani
Assistant Professor
Department of Chemistry
Karpagam Academy of Higher Education,
Coimbatore 641 021
7. Dr. M.R.Ezhilarasi,
Assistant Professor
Department of Chemistry
Karpagam Academy of Higher Education,
Coimbatore 641 021

The Chairperson welcomed the members of the Board. The Board carefully scrutinized the draft syllabus / syllabi taking employability, entrepreneurship and skill development in to consideration and after detailed discussion the following resolutions were passed.

Agenda: 1

1. To consider and approve the Regulations and Syllabus for B.Sc Chemistry Programme.

Resolution: 1

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

- a. In the course “Basics and hydrocarbons- Practicals (18CHU113) Organic preparations: Bromination of acetanilide/ aniline/ Phenol experiment has been replaced by Preparation of benzophenone oximes. Likewise Nitration of nitrobenzene has been replaced by Preparation of phenyl benzoate. The replacement has been made based on safety reasons.
- b. In the course “S-Block and P-block elements- Practicals (18CHU212), In the iodimetric titrations “ Estimation of antimony in tartar-emetic iodimetrically” has been replaced by a similar experiment “Estimation of potassium dichromate using thiosulphate solution”
- c. Most recent textbooks has been added in few courses.

Physical chemistry-III (18CHU302)

- a. In Unit III Electrochemical series and its applications was added.
- b. In unit V the role of surface chemistry in chromatography (TLC and Column) and Gibbs adsorption isotherm were added.
- c. In Unit IV Applications of EMF and its measurements was added.

Inorganic chemistry (18CHU303)

- a. Unit –I & Unit-II to be interchanged.
- b. In Unit – IV- Actinides: Occurrence, preparation of elements, Electronic structure, Oxidation state and General properties, Thorium: Extraction of Thorium are to be added.

Coordination chemistry Practical (18CHU312)

In gravimetric analysis - Estimation of Al(III) by precipitating with oxine and weighing as $\text{Al}(\text{oxine})_3$ (aluminium oxinate) was removed as already three experiments in gravimetric analysis are there. .

Pharmaceutical chemistry (18CHU304)

- a. In Unit-I Drug discovery- Basic Retro synthetic approach : ADMET properties, Lipinski’s rule of Five, cheminformatics tools, Synthon, FGI are to be added.
- b. In Unit-III- along with Central nervous System Drugs - Blood Brain Barrier (BBB) – to be included

Introduction to water management (18CHU305)- will be converted into a value added course.

Inorganic chemistry (18CHU402)
Unit IV and V were Interchanged

Organic chemistry (18CHU403)
In Unit-I- Applications of UV spectroscopy is added.

Organic practical –IV (18CHU413)
Preparation of urea formaldehyde resin and Preparation of methyl orange were merged as Preparation of methyl orange/ urea formaldehyde resin.

Green chemistry (18CHU404 A)
Unit-II - Catalysis and Green energy (Microwave, Ultra sound, Sona chemist) was added.

Analytical clinical biochemistry (18CHU404B)
Enzymes present in Unit was shifted to Unit II.

Green methods in chemistry - practical (18CHU414A)
The practical using liquid carbon di oxide was removed.
Instead of preparing a phthalocyanine complex of Cu II, it has been generalized to a bioactive compound.

2. Organic Chemistry III :Nitrogen containing functional groups, Heterocyclic Chemistry and Natural products) (17CHU303) has been shifted from Semester III to Semester V Organic Chemistry III :Nitrogen containing functional groups, Heterocyclic Chemistry and Natural products) (18CHU502)
3. Nitrogen containing functional groups, Heterocyclic Chemistry and Natural products – Practical(17CHU313) has been shifted from Semester III to Semester V Nitrogen containing functional groups, Heterocyclic Chemistry and Natural products – Practical(18CHU512)
4. Inorganic Chemistry IV: Organometallic Chemistry (17CHU402) has been shifted from semester IV to Semester VI Inorganic Chemistry IV: Organometallic Chemistry (18CHU602)
5. Organometallic Chemistry- Practical (17CHU412) has been shifted from semester IV to Semester VI Organometallic Chemistry- Practical (18CHU612)
6. Mathematics I (17CHU501) and Mathematics I Practical (17CHU511) has been shifted from semester V to Semester III Mathematics I (18CHU301) and Mathematics I Practical (18CHU312) respectively
7. Mathematics II (17CHU601) and Mathematics II Practical (17CHU612) has been shifted from Semester VI to Semester IV Mathematics II (18CHU401) and Mathematics II Practical (18CHU412) respectively.

Agenda: 2

To consider adoption of the curriculum of M.Sc Programme for Chemistry from the academic year 2018-19.

Resolution: 2

Resolved to approve the adoption of the curriculum of M.Sc Programme for Chemistry from the academic year 2018-19 (Approved Regulations and Syllabus given in Annexure-II).

- a. In the Course “Organic Chemistry I –Reaction mechanisms” (18CHP101) in Unit V “Retrosynthesis: disconnections, synthon, linear and convergent synthesis, umpolung of reactivity” has been added.
- b. In the course “Physical Chemistry II” (18CHP203) in unit III “ Nernst equation, redox systems and electrochemical cells” has been added.
- c. In the course Elective II “ Organometallic chemistry” (18CHP205C) in the Unit III “ Porphyrins, metalloenzymes, oxygen transport, electron transfer reactions” has been added.
- d. Organic Chemistry-III: Natural Products(18CHP301)

In unit IV primary, secondary and tertiary structure of proteins to be added.

Agenda: 3

To consider adoption of the curriculum of M.Phil., & Ph.D Programme for Chemistry from the academic year 2018-19.

Resolution: 3

Resolved to approve the adoption of the curriculum of M.Phil., & Ph.D Programme for Chemistry from the academic year 2018-19 (Approved Regulations and Syllabus given in Annexure-III).

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

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 22 courses and hence total change = $22/62 * 100 = 35.48\%$

PG Programme

The PG programme for M.Sc Chemistry consists of 19 courses. There is a syllabus change in 3 courses and hence total change = $4/19 * 100 = 21.05\%$

**KARPAGAM ACADEMY OF HIGHER EDUCATION
DEPARTMENT OF COMMERCE
MINUTES OF THE BOARD OF STUDIES - 2018-19**

Minutes of the meeting of the Board of Studies in Commerce held on 08/06/2018 at 10.00 am in the Department of Commerce at Karpagam Academy of Higher Education.

Members Present:

1. Dr. S. S. Shanthakumari
2. Dr. K. Jothi
3. Dr. B. Seethadevi
4. Dr. R. Velmurugan
5. Mrs. N. Sumathi
6. Dr. K. Uthayasuriyan
7. Mr. V. Vettrivel

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) and B.Com (BPS) programme.

Resolution: 1

Resolved to approve the Regulations and Syllabus for B.Com, B.Com (CA), B.Com (PA) , B.Com (BPS) programme and it comes into effect from 2018-19 (Approved Regulations and Syllabus given in Annexure-I).

Agenda: 2

To consider and approve the Regulations and Syllabus for M.Com (CA) programme.

Resolution: 2

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

Agenda: 3

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

Resolution: 3

Resolved to approve the Regulations and Syllabus for M.Phil.and Ph.D. programme and it comes into effect from 2018-19 (Approved Regulations and Syllabus given in Annexure-II).

B.Com., Annexure

The following changes were made,

Semester I

- In Financial Accounting course 75% changes were made Hence it is considered as a new course
- Financial Accounting practical and Business organisation and management courses were removed and Business Law paper was shifted from second semester to first semester. Fourth unit chapters under sale of goods act 1930 was removed and the limited liability partnership act 2008 was introduced, fifth unit chapters under common carriers and intellectual property legislations were removed.
- In Business Communication second unit Application letter and Resume Preparation chapters were introduced.
- In unit IV vocabulary and listening were included
- In Unit V chapters on use of technology , web page, oral presentation and interviews were included.

Semester II

- Business law and business law practical were removed and shifted to first semester and Corporate Accounting a fourth semester course was introduced.

Semester III

- Income tax law and practices Practical, Financial analysis and reporting , stock market investment courses were removed, Instead Auditing and Corporate Governance, Computerised Accounting System, Auditing and Corporate Governance (Practical), Computerised Accounting System (Practical)” and cost accounting courses were included.

Semester IV

- Corporate accounting course was shifted to second semester, corporate accounting practical, International business and E-commerce courses were removed. cost accounting course was shifted to third semester.
- Introduced Research Methodology, Financial Analysis and Reporting, Excel for business, Indirect taxation Research Methodology practical, Indirect taxation practical and Excel for business practical in the fourth semester.
- In Financial Analysis and Reporting 75% changes were made Hence it is considered as a new Course in fourth semester

Semester V

The following courses were removed

- Human resource management, Indirect tax law ,Principles of Marketing, Banking and insurance, Entrepreneurship, Advertising, Principles of Micro Economics, Business Ethics,Principles of Marketing(Practical), Banking and insurance (Practical),
- The following elective courses were Introduced Advanced Accounting, Financial management, Management accounting, Company Law, Marketing Management, Investment management, Business Economics, Management and Organisational Behaviour, Marketing Management(Practical), Investment management(Practical), Business Economics (Practical), Management and Organisational Behaviour (Practical)” in the Fifth semester.

Semester VI

The following courses were removed

- Management accounting, computer Application business, Office management and secretarial practice, fundamentals of investment, Personal selling and salesmanship, consumer protection, Indian Economy, Retail management, Management accounting (Practical), and computer Application business (Practical)

The following courses were introduced

- Banking and Insurance, Financial services and capital market, Entrepreneurship, Personal selling and salesmanship, Human Resource Management, International Business, Banking and Insurance Practical, Financial services and capital market, , Entrepreneurship Practical, Personal selling and salesmanship Practical, Human Resource Management Practical, International Business Practical and Project

UG Programme:

The UG programme of B.Com. consists of 46 courses out of which 8 are languages and general courses. There is a syllabus change in 10 courses and hence total change = $10 / 38 * 100 = 38.0\%$

B.Com. (CA) Annexure

The following changes made as given below

S. NO	NAME OF THE COURSE	UNITS REPLACED
SEMESTER - I		
1.	Introduction to Information Technology	Unit V
2.	Business Communication	Unit IV
SEMESTER – III		
3.	Database Management system	UNIT IV & V
SEMESTER –IV		
4.	Cost Accounting	Unit V
SEMESTER - V		
5.	Company Law	Unit II
6.	Management Accounting	Unit III

SEMESTER –VI		
7.	Internet and Web Designing	Unit III
8.	Entrepreneurship	Unit III & V
9.	Personal selling and Salesmanship	Unit II, IV & V

- ❖ First semester: Financial Accounting - syllabus fully changed except the introduction in unit-1.
- ❖ Introduction to Information Technology: extended topics of the existing topics are included in unit I, II & III.
- ❖ Introduced “Auditing and Corporate Governance, Computerised Accounting System, Auditing and Corporate Governance (Practical), Computerised Accounting System (Practical)” in the third semester.
- ❖ Introduced “Research Methodology, Cost Accounting, Financial Analysis and Reporting, HTML Programming, Research Methodology, Financial Analysis and Reporting, HTML Programming” in the fourth semester.
- ❖ Introduced “Advanced Accounting, Investment Management, Business Economics, Management and Organisational Behaviour, Investment Management (Practical), Business Economics (Practical), Management and Organisational Behaviour (Practical)” in the Fifth semester.
- ❖ Introduced “Taxation, Human Resource Management, Management Information System, Taxation (Practical), Internet and Web Designing (Practical), Entrepreneurship (Practical), Personal selling and Salesmanship (Practical), Human Resource Management, Management Information System, Project” in the sixth semester.
- ❖ All the courses were focused towards employment, entrepreneurship and skill development.

UG Programme:

The UG programme of B.Com. CA consists of 49 courses out of which 8 are languages and general courses. There is a syllabus change in 8 courses and hence total change = $17 / 41 * 100 = 41.46\%$

B. Com (PA) (2018-19 Batch)

The UG programme of B.Com. PA consists of 48 courses out of which 8 are languages and value-added courses. Total changes 80.90%

Semester I

- ❖ In Financial Accounting Course, Content of Unit IV and V can be modified and in Unit I, II and III Contents can be changed.
- ❖ The course Business Law Can be Shifted Semester IV instead of Business Organization and Management new course can be introduced.
- ❖ In Business Communication Course the content of unit I and V can be modified.

Semester II

- ❖ Corporate Accounting Course Can be transferred from Semester III.

Semester III

- ❖ Corporate Accounting course can be transferred from third semester to second semester and Cost Accounting course can be introduced.
- ❖ Direct Taxation – I course can be removed and Income Tax Law and Practice course can be introduced.
- ❖ Principles of Auditing course can be removed and Auditing and Corporate Governance course can be introduced.
- ❖ Management Information system course can be removed and Computerized Accounting System course can be introduced.
- ❖ Auditing and Corporate Governance practical course can be introduced.
- ❖ Computerized Accounting System practical course can be introduced.

Semester IV

- ❖ Advanced Corporate Accounting course can be removed and Indirect Taxation course can be introduced.
- ❖ Research Methodology course can be transferred from fifth semester to fourth semester.
- ❖ Company Law and Secretarial Practice course can be removed and Financial Analysis and Reporting course can be introduced.
- ❖ Business Organization and Office Management course can be removed and Excel for Business course can be introduced.
- ❖ Financial Analysis and Reporting Practical course can be introduced.
- ❖ Excel for Business Practical course can be introduced.

Semester V

- ❖ Company Law course can be introduced and Research Methodology course can be transferred from fifth semester to fourth semester.
- ❖ Banking and Insurance course be removed and Insurance Law and Practice course can be introduced.
- ❖ Banking Law and Practice course can be introduced.

- ❖ Management Accounting course can be transferred from sixth semester to fifth semester. Financial Services and Capital Markets course can be transferred from fifth semester to sixth semester.
- ❖ Applied Cost Accounting course can be removed and Advanced Accounting course can be introduced.
- ❖ Human Resource Management course can be removed and Business Economics course can be introduced.
- ❖ Principles of Marketing course can be removed and Management and Organization Behaviour course can be introduced.
- ❖ Micro Economics course can be removed.
- ❖ Insurance Law and Practice practical course can be introduced.
- ❖ Banking Law and Practice practical course can be introduced.
- ❖ Business Economics practical course can be introduced
- ❖ Management and Organization Behaviour practical course can be introduced.

Semester VI

- ❖ Financial Services and Capital Markets course can be transferred from fifth semester to sixth semester and all units can be modified. Management Accounting transferred to fifth semester.
- ❖ Industrial Relations and Labour Laws course can be removed and Information System Control and Audit course can be introduced.
- ❖ Strategic Management course can be introduced and Entrepreneurship and Project Management course can be removed.
- ❖ International business Course can be introduced.
- ❖ Management Accounting course can be transferred from sixth semester to fifth semester and Entrepreneurship course can be introduced.
- ❖ Retail Business Management course can be removed and Personal Selling and Salesmanship Course can be introduced.
- ❖ Financial Services and Capital Markets course practical can be introduced.
- ❖ Investment Management Practical course can be introduced.
- ❖ Information System Control and Audit Practical course can be introduced.
- ❖ Strategic Management practical course can be introduced.
- ❖ Entrepreneurship Practical course can be introduced.
- ❖ Personal Selling and Salesmanship Practical course can be introduced.
- ❖ Project work can be introduced.
- ❖ Indian Economy course can be removed
- ❖ Retail Management course can be removed
- ❖ Management Accounting Practical course can be removed
- ❖ Computer Application in Business Practical course can be removed
- ❖ Banking and Insurance practical course can be introduced
- ❖ Investment Management Practical course can be introduced
- ❖ Human Resource Management Practical course can be introduced
- ❖ International Business Practical course can be introduced
- ❖ Entrepreneurship Practical course can be introduced
- ❖ Personal Selling and Salesmanship Practical course can be introduced

- ❖ Project work can be introduced

B.Com (BPS)

The UG programme of B.Com(BPS) consists of 52 courses out of which 8 are languages and value added courses. 25 New courses are introduced and total change is 65.29%.

Semester I

- ❖ In Financial Accounting Course, Content of Unit I,II,III and IV can be modified.
- ❖ Financial Accounting Practical Course can be removed.
- ❖ Business Organization and Management Course can be shifted to V Semester and the Business Law Course can be shifted from II Sem

Semester II

- ❖ MS Office and Automation Practical removed.

Semester III

- ❖ The course Corporate Law Theory and Practical can be removed from Semester III and Cost Accounting (18BPU301) can be include.
- ❖ The course Financial Analysis and Reporting can be shifted from Sem III to Sem IV. Instead Auditing and corporate governance can be included,
- ❖ The four credit of Auditing and Corporate Governance can be splitted into three credit of theory Auditing and Corporate Governance (18BPU302) and one credit of practical Auditing and Corporate Governance (Practical) (18BPU311).
- ❖ The four credit of Business Process Services in Insurance can be splitted into three credit of theory Business Process Services in Insurance (18BPU303B) and one credit of practical Business Process Services in Insurance (Practical) (18BPU312).

Semester IV

- ❖ The course Corporate Accounting Theory and Practical can be removed from Semester III and the Course Research Methodology (18BPU402) can be included.
- ❖ The course name Retail Environment and Market research can be renamed as Retail, CPG and Market Research (18BPU401).
- ❖ The four credit of Business Process Services in Banking can be splitted into three credit of theory Business Process Services in Banking (18BPU403B) and one credit of practical Business Process Services in Banking (Practical) (18BPU412).
- ❖ The four credit of Financial Analysis and Reporting can be splitted into three credit of theory Financial Analysis and Reporting (18BPU403A) and one credit of practical Financial Analysis and Reporting (Practical) (18BPU411).

Semester V

- ❖ The course Entrepreneurship and Taxation can be shifted from semester V to semester VI.
- ❖ The course company law (18BPU501A), Marketing management (18BPU502B) can be included.
- ❖ The course Auditing can be removed, and Business Economics (18BPU504A) & Management and Organization Behaviour (18BPU504B) can be included.
- ❖ The six credit of Marketing management can be splitted into five credit of theory Marketing Management (18BPU502B) and one credit of practical Marketing Management (Practical) (18BPU511).
- ❖ The six credit of Business Economics can be splitted into five credit of theory Business Economics (18BPU504B) and one credit of practical Business Economics (Practical) (18BPU512).
- ❖ The six credits of Management and Organization Behaviour can be splitted into five credit of theory Management and Organization Behaviour (18BPU504B) and one credit of practical Management and Organization Behaviour (Practical) (18BPU513).
- ❖ **Semester VI**
- ❖ The course Financial Management (theory and practical), Human Resource Management (theory and practical), Cost and Management Accounting, Office Management and Secretarial Practice , Personal Selling and Salesmanship, Managerial Economics and Retail Management can be removed.
- ❖ The course Investment Management (18BPU601B), Strategic Management (18BPU602B), Management Information System (18BPU603B) can be included.
- ❖ The six credit of Investment management can be splitted into five credit of theory Investment management (18BPU601B) and one credit of practical Investment management Practical (18BPU611).
- ❖ The six credit of strategic management can be splitted into five credit of theory strategic management (18BPU602B) and one credit of practical strategic management Practical (18BPU612).
- ❖ The four credit of entrepreneurship can be splitted into three credit of theory entrepreneurship (18BPU603A) and one credit of practical entrepreneurship Practical (18BPU613).
- ❖ The four credit of Management Information System can be splitted into three credit of theory Management Information System (18BPU603B) and one credit of practical Management Information System Practical (18BPU614).
- ❖ Six credit of Project can be included.

M.Com and M.Com CA

Annexure

The following new courses were introduced

In **M.Com** Programme there is No change in the course syllabi for all the four semester

M.Com CA

Semester I

Advanced corporate accounting, Relational database Management System, Organisational behaviour, Acquisition and corporate restructuring and Relational database Management System Practical & Financial market and institutions.

Semester II

Data mining and data warehousing Practical, Advanced excel for business Practical & Investment banking and financial services

Semester III

Business valuation, Software models and engineering & Accounting for decision making.

Semester IV

Digital Marketing, Digital Marketing Practicals & Entrepreneurial development

PG Programme:

The PG programme of M.Com. CA consists of 30 courses. There is a syllabus change in 13 course and hence total change = $13/29 * 100 = 44.83\%$

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

Board of Studies 2018-2019

Minutes of the meeting of the Board of Studies in Computer Science, Computer Applications & Information Technology held on 08.06.2018 at 11.30 am / ~~pm~~ in the Department of CS, CA& IT at Karpagam Academy of Higher Education.

Members Present:

1.Dr.S.Veni

Chairperson

Professor & Head,
Department of CS, CA& IT,
Karpagam Academy of Higher Education
Coimbatore – 641 021.

2.Dr.R.Gunasundari

Member

Associate Professor,
Department of CS, CA& IT,
Karpagam Academy of Higher Education
Coimbatore – 641 021.

3.Dr.S.Sheeja

Member

Associate Professor,
Department of CS, CA& IT,
Karpagam Academy of Higher Education
Coimbatore – 641 021.

4.Mr.Felix

External Member

Project Manager, CG – VAK,
Mettupalayam Road,
Coimbatore

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

Agenda 1:

1. To consider and approve the Regulations of the Syllabus for the following UG Programme.

Resolution 1:

1. Resolved to approve the regulations and syllabus for the following UG Programme and it comes into effect from 2015 to 2016 (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 2015 to 2016 (Approved regulations and syllabus given Annexure-II.

BCA Degree Programme:

The following changes have been made:

- Introduction to Information Technology course is replaced with Computer Fundamentals in Semester I.
- Introduction to Information Technology Practical is replaced with Computer Fundamentals Practical in Semester I.
- Script Language course is replaced with Computer Networks and Internet Technologies in Semester II.
- Script Language Practical is replaced with Computer Networks and Internet Technologies Practical in Semester II
- There is no change in the 2016-2017 and 2017-2018 syllabus.
- In semester II, Programming in Java remove Servlet topic and Swing
- In semester IV , replace Database Management theory and practical to Relational Database management system theory and Practical
- In semester V, Oracle theory and practical, Microprocessor theory and practical, PC Hardware & Trouble Shooting theory and practical and Open Source Technologies theory and

practical may be removed . MONGO DB theory and practical, Artificial Intelligence theory and practical, Software Testing theory and practical and Computer Graphics theory and practical may be included. Also the content of Information Security to be changed. The list of programs in Information Security Practical to be changed

- In semester VI, the content of Big Data Analytics to be changed. Also the list of programs in PHP programming practical to be changed.

The UG programme, BCA consists of 63 courses in which 12 are new courses and there is a syllabi changes in 4 courses. The total change is 23 %

Master of Computer Applications

The following changes have been made:

Semester I : No change

Semester II : No change

Semester III : No change

Semester IV : No change

Semester V

The following courses has been removed:

- Ruby Programming
- Ruby on Rails Practical

The following courses has been added

- Angular JS
- Angular JS Practical

The PG programme, MCA consists of 65 courses in which 2 are new courses and there are no changes in syllabi. **The total change is 3 %**

Remarks:

Substantial changes in the content have been brought in all the BCA and MCA courses in consonance with changes taking to the respective field and fact. These courses are tantamount to new courses. 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 Computer Science held on 08.06.2018 at 11.30 am / ~~pm~~ in the Department of Computer Science at Karpagam Academy of Higher Education.

Members Present:

1.Dr.S.Veni

Chairperson

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

2.Dr.R.Gunasundari

Member

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

3.Dr.S.Sheeja

Member

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

4.Mr.Felix

External Member

Project Manager, CG – VAK,
Mettupalayam Road,
Coimbatore

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

Agenda: 1

1. To consider and approve the Regulations and Syllabus for following UG programme.
 - i. B.Sc Computer Science
 - ii. B.Sc Information Technology
 - iii. B.Sc Computer Technology

Resolution: 1

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

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

Agenda: 2

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

- i. M.Sc Computer Science

Resolution: 2

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

- i) M.Sc(CS)

Agenda: 3

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

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

Resolution: 3

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

- i) M.Phil ii) Ph.D

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

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

B.Sc Computer Science

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

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

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

B.Sc Information Technology

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

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

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

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

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

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

B.Sc Computer Technology

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

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

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

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

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

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

M.Sc Computer Science

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

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

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

M.Phil/ Ph.D

- There is no change in the existing syllabus

Remarks:

Substantial changes in the content have been brought in **BSc (Computer Science), BSc (Information Technology), BSc (Computer Technology), BCA and M.Sc (Computer Science)** in consonance with changes taking to the respective field and in fact. These courses are tantamount to new courses. All the courses in all programmes focus on employability, entrepreneurship and skill development.

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

Minutes of the meeting of the Board of Studies in Management held on **08.06.2018** 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. M. Nandhini - Associate Professor - Member
3. Dr. A. Dharmaraj - Assistant Professor - Member
4. Dr. C. Sagunthala - Assistant Professor - Member
5. Dr. V. Krishnaveni - Assistant Professor - Member
6. Dr. S. Mahalingam - Professor - Member

BSMED, Coimbatore

7. 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

To consider and approve the Regulations and Syllabus for **MBA(General Management)** programme.

Resolution: 1

Resolved to approve the Regulations and Syllabus for **MBA(General Management)** programme and it comes into effect from 2018-19 (Approved Regulations and Syllabus given in Annexure-I).

Agenda - 2

To consider and approve the Regulations and Syllabus for **BBA** programme.

Resolution: 2

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

Agenda: 3

To consider and approve the Regulations and Syllabus for MPhil/Ph.D in Management Programme for the Academic year 2018 - 2019

Resolution: 3

Resolved to approve the Regulations and Syllabus for MPhil/Ph.D in Management Programme and it comes into effect from 2018 - 2019 (Approved Syllabus given in Annexure - III).

Agenda - 4

1. To consider and approve the revision of Syllabus for **BBA** programme (Batch: 2016-2019).

Resolution:4

1. Resolved to approve the revision of Syllabus for **BBA** programme (Batch: 2016-2019) and it comes into effect from 2018-19 (Approved Revised Syllabus given in Annexure-IV).

- 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. The courses considered to be new courses in PG programme MBA are Management Principles (18MBAP101), Organizational Behaviour (18MBAP102), Managerial Economics (18MBAP103), Statistics for Decision Making (18MBAP106), Case Analysis and Presentation (18MBAP112), Production and Operations Management (18MBAP202), Marketing Management (18MBAP202), Quantitative Techniques (18MBAP204), Team Building and Leadership Skills (Practical) (18MBAP212), International Logistics Management (18MBAP1303C)
- All the courses were focused towards employability, entrepreneurship and skill development.

Annexure-I

Semester I

- The courses Management Principles (18MBAP101) and Organizational Behaviour (18MBAP102) can be introduced instead of single course Management principles and Organizational behaviour.
- Legal and Business Environment (18MBAP104) - the topic 'Formation of Company' can be added in Unit - II. Business Environment- Nature, components and significance. Factors effecting environment of Business. Economic factors its components. Cultural, Political, Social, Sovereignty, Technological factors and their impact on business. Legal environment and external factors influencing Business environment. International Business Environment, challenges can be added in Unit V.
- Quantitative methods for management is separated into two courses namely Statistics for Decision Making (18MBAP106) in first semester and Quantitative Techniques (18MBAP204) in second semester.
- Case Analysis and Presentation (18MBAP107) is introduced as a new course instead of Communication Practice-I.

Semester II

- Correlation analysis can be added in Unit - IV in Research Methodology for Management (18MBAP206)
- Team building and Leadership Skills (18MBAP207) is introduced instead of Communication Practice-II.

Semester III

- The topic Strategic Business Management changed as Corporate Strategy (18MBAP301).
- International Business (18MBAP302) is introduced as a new core course in the third semester.
- Security Analysis and Portfolio Management is shifted from Semester IV to Semester III and renamed as Investment Analysis and Portfolio Management (18MBAPF303A)
- The topic Financial Service Management is changed as Financial Markets and Services 18MBAPF303B
- The course Project Appraisal and Finance (18MBAPF303C) is introduced as a new course.
- The course Sales and Promotional Management is renamed as Integrated Marketing Communication (18MBAPM303B)
- Retail Marketing is shifted from Semester IV to Semester III and renamed as Retail Management (18MBAPM303C)
- Industrial Relations is shifted from Semester IV to Semester III and renamed as Employee Relations (18MBAPH303A)
- Compensation Management is shifted from Semester IV to Semester III and renamed as Compensation and Benefits Management (18MBAPH303B)
- Strategic HRM (18MBAPH303C) is introduced in Semester III
- System Elective is renamed as Management Information System
- Enterprise Resource Planning (18MBAPS303A) is shifted from Semester IV to Semester III
- Software Project Management is shifted from Semester IV to Semester III and renamed as Managing Software Projects (18MBAPS303B)
- E-Commerce Technology and Management is shifted from Semester IV to Semester III and renamed as E-Commerce and Digital Markets (18MBAPS303C)
- Technology Innovation and Sustainable Enterprise for Management is shifted from Semester IV to Semester III and renamed as Technology Appreciation and Intellectual Property Right (18MBAPE303A)
- **Social Entrepreneurship (18MBAPE303B) is introduced as a new course.**
- Venture Valuation and Accounting (18MBAPE303C) is introduced as a new course.
- Planning, Structuring, and Financing Small Business (18MBAPB303A), Finance and Accounting for Small Business (18MBAPB303B) and Marketing for Small Business (18MBAPB303C) is introduced as new courses under the Elective Micro and Small Business Management
- Data Mining and Data warehousing (18MBAPA303A), Data Visualization for Managers – Using R and Tableau (18MBAPA303B) and Business Forecasting (18MBAPA303C) is introduced as new courses in the Elective Business Analytics.
- International Economics (18MBAPI303A) is shifted from Semester IV to Semester III

- International Logistics Management is shifted from Semester IV to Semester III and renamed as International Transportation and Documentation (18MBAPI303B)
- **International Trade Laws (18MBAPI303C) is introduced as a new course.**
- Supply Chain and Logistics Management (18MBAPO303A) is shifted from Semester IV to Semester III
- **Operations Strategy (18MBAPO303B) is introduced as a new course.**
- The course Total Quality Management is renamed as Quality Toolkit for Managers (18MBAPO303C)
- Tourism Principles, Policies and Practices (18MBAPT303A), Tourism Products of India (18MBAPT303B), and **Recreation Management (18MBAPT303C) is introduced as new courses in the elective Tourism Management**

Semester IV

- **Indian Ethos and Business Ethics (18MBAP401) is introduced as a new course** in the Semester IV
- Banking and Insurance Management (18MBAPF402A) is shifted from Semester II to Semester IV and renamed as Banking and Insurance (18MBAPF402A)
- Mergers, Acquisitions and Corporate Restructuring (18MBAPF402B) is introduced in the Semester IV
- Bonds, Derivatives and Commodity Market Management is renamed as Financial Derivatives (18MBAPF402C)
- The course **Financial Econometrics (18MBAPF402D) is introduced as a new course.**
- Brands and Business is renamed as Product and Brand Management (18MBAPM402A)
- Marketing Research and Consumer behavior is shifted from Semester III to Semester IV and renamed as Consumer Behaviour (18MBAPM402B)
- Digital and Social Media Marketing (18MBAPM402C) and **Sales and Distribution Management (18MBAPM402D) are introduced as new courses.**
- **Organizational Change and Development, (18MBAPH402A), Performance Management Systems (18MBAPH402B), Manpower Planning, Recruitment, and Selection (18MBAPH402C) and Team Dynamics at Work (18MBAPH402D) are introduced as new courses.**
- **Information Systems Audit and Control (18MBAPS402A), Knowledge Management (18MBAPS402B), Managing Digital Innovation and Transformation (18MBAPS402C) Managing Digital Platforms (18MBAPS402D) are introduced as new courses** under Management Information Systems elective.
- **Innovation Technology Management (18MBAPE402A), Family Business Management (18MBAPE402B), Entrepreneurial Marketing (18MBAPE402C) and Indian Models in Entrepreneurship (18MBAPE402D) are introduced as new courses** under Entrepreneurship elective
- **Design and Change in Organization (18MBAPB402A) Business Plan Preparation for Small Business (18MBAPB402B), SMEs Policy Framework (18MBAPB402C) Contemporary Environment in SMEs (18MBAPB402D) are introduced as new courses** under Micro and Small Business Management Elective
- **Human Resource Metrics and Analytics (18MBAPA402A), Marketing Analytics (18MBAPA402B), Big Data Analytics (18MBAPA402C) and Financial Analytics (18MBAPA402D) are introduced as new courses** under Business Analytics Elective

- International Financial Management is shifted from Semester III and Semester IV and renamed as International Finance (18MBAPI402A).
- International Marketing Management (18MBAPI402B) is shifted from Semester III and Semester IV
- International HRM (18MBAPI402C) and Cross Cultural Management (18MBAPI402D) are introduced as new courses.
- Sourcing Management (18MBAPO402A), Pricing and Revenue Management (18MBAPO402B), Supply Chain Analytics (18MBAPO402C) and Sales and Operations Planning (18MBAPO402D) are introduced as new courses under Operations Management elective
- Travel Agency and Tour Operations (18MBAPT402A), Ecotourism (18MBAPT402B), Event Management (18MBAPT402C), and Healthcare Tourism (18MBAPT402D) are introduced as new courses under Tourism Management elective.

- 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. In addition to this the following changes have been made
- All the courses were focused towards Employability, Entrepreneurship and Skill Development

Annexure-II

1. In the First Semester, Fundamentals of Management and Organizational Behaviour (18BAU101), Business Communication (18AEC101), MS Office (Practical) (18BAU111) were the new courses introduced.
2. In the Second semester, Financial Accounting (18BAU201), Business Mathematics and statistics (18BAU202) were the new courses introduced.
3. In the Third Semester, Principles of Marketing (18BAU301), Management Accounting (18BAU302), Human Resource Management (18BAU303A), Management Information System (18BAU303B), Principles of Marketing (Practical) (18BAU311), Management Accounting (Practical) (18BAU312), Human Resource Management (Practical) (18BAU313A) and Management Information System (Practical) (18BAU313B) were the new courses introduced.
4. In the Fourth Semester, Financial Analysis and reporting (18BAU403A) Decision making using SPSS (18BAU403B), Decision making using SPSS (18BAU403B), Business Research Methods (Practical) , 8BAU411), Financial Analysis and Reporting (Practical) (18BAU412A), Decision making using SPSS (Practical) (18BAU412B) were the new courses introduced.
5. In the Fifth semester, Investment Analysis and Portfolio Management (18BAU501A), Banking and Insurance 18BAU501B, Advertising and Brand Management (18BAU502A), Retail Management (8BAU502B), Leadership and Team Building (8BAU503B), Taxation (18BAU504A), Investment Analysis and Portfolio Management (practical) (18BAU511A), Banking and Insurance (Practical) (18BAU511B), Advertising and Brand Management (practical) (18BAU512A), Retail Management (practical) (18BAU512B), Business Law (Practical) (18BAU513A), Taxation (Practical) (18BAU514A), Production and Operations Management (Practical) (18BAU514B) were the new courses introduced.
6. In the Sixth semester, Management of Industrial Relations (18BAU601A), Training and Development (18BAU601B), Excel for Business (18BAU602A), Personality Development and Communication Skills (18BAU602B), Ethics & Corporate Social

Responsibility (18BAU603A), Entrepreneurship Development (18BAU603B), Management of Industrial Relations (18BAU601A), Training and Development (18BAU601B), Excel for Business (18BAU602A), Personality Development and Communication Skills (18BAU602B), Ethics & Corporate Social Responsibility (18BAU603A), Entrepreneurship Development (18BAU603B) were the new courses introduced.

Semester I

7. Fundamentals of Management and Organizational Behaviour (18BAU101), in unit III Values, in unit IV Leadership theories and in unit V Groups and teams concepts were included
8. Managerial Economics Course can be shifted from II semester to I semester. Statistics for Business Decisions Course can be shifted to II Semester as Business Mathematics and Statistics (18BAU202)
9. Managerial Economics (18BAU102) - Factor market can be shifted from Unit - IV to Unit -III.National Income Analysis can be shifted from Unit - V to Unit - IV.In unit V monetary policy and fiscal policy concepts were included.
10. MS-Office [Practical] (18BAU111), in MS-Excel, Pivot table creation, V lookup functions, H lookup functions and Passbook creation programmes were included.
11. Business Communication (18AEC101) Course, unit IV and V were totally replaced with vocabulary and listening and use of technology and interview concepts respectively.

Semester – II

12. Business Mathematics and Statistics (18BAU202) Course, Unit I , Unit II, Unit V were totally replaced with Basic Mathematics of Finance, Matrix, Calculus and Time series analysis concepts respectively.
13. Financial Accounting (18BAU201)Course, Unit III and IV were totally replaced with depreciation and inventory techniques concepts respectively

Semester III

14. Principles of Marketing (18BAU301) course, in Unit II Market process, modern component of market mix, market planning and market implementation and control and in Unit V Recent developments in marketing, social marketing, online marketing and green marketing concepts were included.
15. Management Accounting (18BAU302) course, in Unit I Difference between cost accounting and management accounting and cost management concepts were included. In Unit V Contemporary issues, responsibility accounting and transfer pricing concepts were included.

16. Human Resource Management (18BAU303A) Course, in Unit IV Wages and salary administration and incentives were included. In Unit V International HRM, Compulsion of domestic and international HRM were included.
17. Management Information System (18BAU303B) Course, in Unit II MIS organization structure were included. Unit III, IV, V were totally replaced with Enterprise resource planning, Trends in MIS and Strategic management information system concepts respectively.

Semester V

18. Investment analysis and portfolio management (18BAU504A) Course, in Unit II Bond Valuation and in Unit V Mutual funds and portfolio evaluation concepts were included.
19. Advertising and Brand Management (18BAU502A) Course, in Unit I Integrated Marketing Communication, Consumer behavior and Consumer buying decision process were included. In Unit V, Brand life cycle, Strategic brand management process and Brand elements concepts were included.
20. Retail Management (18BAU502B) Course, in Unit II Understanding in Retail Consumer, Consumer Decision making process and Market research for undersating retail consumer. In Unit V, Emerging Trends in Retailing, Organizing Retailing, E-Tailing and Challenges faced by the Retail Sector concepts were included.
21. Taxation -I (18BAU504A) Course, Unit IV and V were totally replaced with indirect taxes and customes duty concepts respectively.
22. Productions and Operations Management (18BAU504B) Course, in Unit V, Work Study concept were included.

Semester VI

23. Management of Industrial Relations (18BAU601A) Course, in Unit II, Industrial Conflict Concept were included and in Unit IV, Industrial Safety concept were included.
24. Entrepreneurship Development (18BAU603B) Course, Unit V were totally replaced with mobilizing resources for startups concepts respectively.

Annexure- III

Advertising and Salesmanship and Service Marketing courses are introduced as new courses in the Syllabi of MPhil/Ph.D (Management) Programme.

Annexure- IV

SEC 4 – Taxation II (16BAU603A) - Taxation II Syllabus can be restructured. GST – Registration Proceedure, Liability, CGST and IGST can be Included.

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 67.35%.

The percentage of changes in PG programme MBA is 81.73%.

The percentage of changes in M.Phil/Ph.D programme (Management) is 16.67%.

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

Minutes of the meeting of the Board of Studies in Mathematics held on 13.06.2018 at 11.30 am in the Department of Mathematics at Karpagam Academy of Higher Education.

Members Present:

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

The Chairperson welcomed the members of the Board. Leave of absence granted to Mr. Karthikeyan (Industrial expert) & Dr. R. Uthayakumar (External member). 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.

Resolution: 1

Resolved to approve the Regulations and Syllabus for B. Sc. Mathematics programme and it comes into effect from 2018-19.

Agenda: 2

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

Resolution: 2

Resolved to approve the Regulations and Syllabus for M. Sc. Mathematics programme and it comes into effect from 2018-19.

Agenda: 3

To consider and approve the Regulations and Syllabus of the allied courses for B.Com., B.Com(CA)., B.Com(CS)., B.Com(BPS)., B.Com(PA)., BBA., B.Sc(CS\IT\CT)., BCA., M.Sc(MB)., MCA., MBA., and M.Com(CA) from the academic year 2018-19 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 2018-19.

Agenda: 4

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

- 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 2018-19.

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.

Calculus (17MMU101)

Reference books 1 and 2 may be considered as textbooks 1 and 2 and the textbook may be included as a reference book

Differential Equations (17MMU201)

Units III & V may be excluded and Unit IV may be included as Unit III.
Laplace transforms and its properties may be included as Unit IV.

The content of Unit V may be as applications of Laplace transforms for solving Differential Equation.

Real Analysis (17MMU203)

Goldberg R.,(1970). Methods of Real Analysis, Oxford and IBH publishing Co. Pvt. Ltd. New Delhi, may be included in the Reference Book list.

Numerical Methods (17MMU301)

This course may be moved from semester III to IV as **Numerical Methods (18MMU403)**. Instead of this course, **PDE and Systems of ODE (17MMU402)** may be included as **PDE and Systems of ODE (18MMU301)**.

Theory of Real Functions (17MMU302)

The contents of **UNIT I** related to continuous functions may be removed from this unit and it should be included in **UNIT II**. Contents of **UNIT IV** and **UNIT V** may be deleted. Instead of those, topics related to the sequence and series of functions may be included as **UNIT IV** and **UNIT V**, respectively.

Group Theory I (17MMU303)

The contents of this course may be systematized as given in standard algebra books.

Riemann Integration and series of functions (17MMU304A)

This course may be shifted to semester IV as a core course **Riemann Integration and series of functions (18MMU402)**. Instead of this, **Computer Graphics (17MMU504B)** may be replaced from the semester V as **Computer Graphics (18MMU304A)**.

Numerical Methods Practical (17MMU311)

This course may be excluded from the curriculum. Instead of this course, **PDE and Systems of ODE (Practical) (18MMU311)** a new course may be included.

Group theory II (17MMU403)

The content of this course may be systemized as given in standard algebra books and titled as **Group theory II (18MMU401)**.

Linear Programming (17MMU404A)

This course may be shifted to semester VI as **Linear Programming (18MMU603B)**. Instead of this course, **Graph theory (17MMU503A)** may be replaced from semester V to IV as **Graph theory (18MMU404A)**.

Industrial Mathematics (17MMU503B)

This course may be excluded from the curriculum. Instead of this course, **Probability and Statistics (17MMU603B)** may be shifted from semester VI to Semester V as **Probability and Statistics(18MMU504A)**.

Mechanics (17MMU603A)

M. K. Venkataraman(2002), Statics, 10th Edition, Agasthiyar Publications and M.K.Venkataraman(2004),Dynamics,11th Edition, may be included in the list of suggested readings.

The UG programme B.Sc Mathematics consists of 39 courses out of which 4 are languages and environmental studies courses. There is a syllabus change in 1 course and 9 new courses can be added hence total change = 25%

PG Programme (M.Sc Mathematics)

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

Fuzzy Logic (17MMP302)

In lieu of this course **Number Theory (18MMP105B)** course may be included in the curriculum since the aim of the course meted in **Neural Networks and Fuzzy Logic (18MMP105B)**.

Fuzzy Topology (17MMP305C)

The contents of the this course replaced with Fuzzy relations, Fuzzy graphs, Fuzzy topological spaces and separation axioms,

Integral Equations and Transforms (17MMP306)

This title of the course may be renamed as **Mathematical Methods (18MMP306)**.

Optimization Techniques (17MMP203)

The following book may be included as a text book:

Sharma J.K., 2008, Operations Research Theory and Practice, 3rd Edition, Macmillan India Ltd.

Partial Differential Equations (17MMP204)

1.The following book may be included as a reference book:

Tyn-Myint-U and LokenathDebnath, (2007) Linear Partial Differential Equations for Scientists and Engineers, Fourth Edition, Birkhauser, Berlin.

2.The following reference may be included as text book.

Sharma, J. N, Keharsingh, (2001), Partial Differential Equations for Engineering and Scientists, Narosa Publishing House, New Delhi

The PG programme M.Sc Mathematics consists of 30 courses. 2 new courses can be added and there is no much change in the syllabi. Then, the total percentage of content change is = 7%

Allied Courses

Business Mathematics and Statistics (17CCU202)

In Unit-I, the following topics may be excluded from the syllabus. The nominal, effective rate of interest and continuous rate of interest and their interrelationship.

M.Phil / Ph.D PROGRAMME

From the Curriculum and Syllabus of i) M.Phil and ii) Ph.D Research programmes the following Paper three courses may be removed. Because Gouides are not available in the department.

1. Advanced Graph Theory (16RMAT302)
2. Abstract Control Theory (16RMAT305)
3. Topology (16RMAT306)

KARPAGAM ACADEMY OF HIGHER EDUCATION

COIMBATORE – 641 021

2018- 2019

Minutes of the meeting of the Board of Studies in Microbiology (UG, PG, M.Phil& PhD) held on 07.06.2018 at 10.00 am / pm 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.

2.Dr.R.Usha,

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

3.Dr.M.Kulandhaivel,

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

4.Dr.N.O.Gopal,

Professor,
Dept of Microbiology,
Tamilnadu Agriculture University, Coimbatore.

5.Dr.PreethiMarimuthu

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

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

Agenda: 1

1. To consider and approve the Regulations and Syllabus for B.Sc Microbiology programme.

Resolution: 1

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

Agenda: 2

1. To consider and approve the Regulations and Syllabus for M.Sc Microbiology programme.

Resolution: 2

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

Bsc Microbiology syllabus has been prepared according to UGC model curriculum and UGC regulation. Choice Based Credit System take into account for the preparation of syllabus for BSc Microbiology. In addition to the UGC model curriculum we have added few topics in different courses of BSc Microbiology 2018-2019.

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

The Board passes the syllabus for BsC Microbiology, MSc Microbiology, M.Phil& PhD Microbiology.

The Curriculum and credits were approved as such for the academic year 2018- 2019.

B sc Microbiology

1. General properties of virus has to be included in the Introduction to Microbiology and Microbial Diversity (18MBU101). Actinobacteria has to be included in Introduction to Microbiology & Microbial Diversity(18MBU101),
2. Bacteriology(18MBU102) – Modified the Archae bacteria and Eubacteria- General characteristics, Classification (Overview), metabolism and ecological significance. Gram Positive and Gram Negative (Low G+C and High G+C)-General characteristics with suitable examples. Cyanobacteria: An Introduction.
3. Biochemistry(18MBU103) Modified Monosaccharides-families, stereo isomerism, epimers, Mutarotation and anomers. Forms of glucose and fructose, Haworth projection. Sugar derivatives. Disaccharides- occurrence, concept of reducing and non-reducing sugars and Haworth projections. Polysaccharides-storage and structural polysaccharides.
4. 18MBU201 Virology - Modification- History of viruses. Structure, Classification, nomenclature of viruses.
Modification- Prevention and control of viral diseases.
5. (18MBU202) Microbial Physiology and Metabolism- modified into Microbial nutrition– nutrient requirements, Nutritional groups of microorganisms.Uptake of nutrients by cell – Passive, Facilitated diffusion, Active transport, Group translocation and Iron uptake.
6. (18MBU203) Microbial Genetics added Gene Mapping techniques-gene and chromosome walking.
7. DNA estimation has to be added in Microbial genetics – Practical (18MBU213)
8. **A new course Advanced Biochemistry (18MBU303) and the corresponding Practical course Advanced Biochemistry practical (18MBU313) were introduced in semester III.** Environmental Microbiology (18MBU301) was shifted to Semester IV as Environmental Microbiology (18MBU403). In Semester IV the Recombinant DNA Technology (18MBU403) was converted in to an elective course (18MBU404B). The course Personal Health Care (18MBU404B) and the corresponding practical course Personal Health Care practical (18MBU414B) were removed.

Bsc Microbiology programme I year consist of 60 number of courses. There is a syllabus changes in 14 courses. **The percentage of syllabus changes in the 2018- 2019 for UG Programme is $14/56 * 100 = 25 \%$.**

Msc Microbiology

1. Include the word Systematics, Actinobacteria in Fundamentals Microbiology and Classification (18MBP101),
2. Biolabeling of genes & protein application has to be added in MTIPR (18MBP203).
3. Marine Bioproducts to be added in marine microbiology (18MBP105A).
4. Included system, SOP, SSOP, HACCP, ISO, European Standard in Unit III of Quality assurance and Quality Control (18MBP205B).
5. Suggested to shift the course Biostatistics and Research methodology (18MBP304) to second semester. Shift Microbial Technology & IPR (18MBP203) to third semester.
7. Probiotics and Industrial enzymes to be included in the core course. Shift MALDI – TOF from unit I to Unit III and add LCMS, LCMS/MS, LCMS QQQ and its application in Unit V in Bioinstrumentation (18MBP104).
8. Include protein purification using microfiltration in Basic practical II (18MBP112). Include peptides, Biopolymers, Surfactants, Enzymes in Unit V of Bioprocess Engineering (18MBP205C).

Msc Microbiology programme first year consist of 27 number of courses. There is a syllabus changes in 9 courses. **The percentage of syllabus changes in the 2018- 2019 for PG Programme is $9/27 * 100 = 33.3\%$.**

Suggested to add article reading Plagiarism Software, Literature search, End note and its application Mendeley, Journal Search Key word, assay validation in Research Methodology and Pedagogy (18RMB101). Add Actinobacteria Unit I of Recent Trends in Microbiology (18RMB201). Emerging viral infections to be added in virology (18RMB303) MDR and XDR microbes have to be added in the Medical Microbiology (18RMB304). Suggested to add SPSS and RSM in research methodology and pedagogy (18RMB101).

M.Phil & Ph.D Microbiology

In Research Methodology and Pedagogy, in unit III “Response Surface Methodology” was added.

In Unit IV Plagiarism software, literature search, endnote, Mendeley and its applications were added.

In Medical microbiology paper “MDR, XDR, PDR” were added.

The percentage change in the content of the syllabi is 8%

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



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

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DEPARTMENT OF PHYSICS

Minutes of the meeting of board of studies

Minutes of the meeting of the Board of Studies in Physics held on 13.06.2018 at 11.00 AM in the Department of Physics at Karpagam Academy of Higher Education, Coimbatore.

Members Present:

1. Dr. V. Senthil Kumar (Chairperson)
2. Dr. B. Janarthanan (Member)
3. Dr. S. Sharmila (Member)
4. Mrs. Ambili Vipin (Member)
5. Dr. S. Arumugam (Expert)
6. Dr. R. T. Rajendra Kumar (Expert)
7. Mr. P. Anbazhagan (Expert)

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

Agenda: 1

1. To consider and approve the Regulations and Syllabus for B.Sc Physics

Resolution: 1

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

Agenda: 2

1. To consider and approve the Regulations and Syllabus for M.Sc Physics programme.

Resolution: 2

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

Agenda: 3

1. To consider and approve the Regulations and Syllabus for M.Phil Physics programme.

Resolution: 3

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

Agenda: 4

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

Resolution: 4

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

1. In Mechanics (18PHU101), Unit V has been revised completely.
2. In Mathematical Physics (18PHU103), Units I, II, III and IV are completely revised.
3. Solid state Physics (18PHU601) and Solid State Physics Practical (18PHU611) has been shifted to Semester VI. Instead Properties of Matter and Acoustics (18PHU102) and Properties of Matter and Acoustics Practical (18PHU112) has been introduced.
4. In Mathematical Physics – II (18PHU203), Unit II, III and IV is completely revised and changed.
5. Few experiments in Electricity and Magnetism Practical (18PHU211), Analog Systems and Applications Practical (18PHU212) and Mathematical Physics Practical – II (18PHU213) have been changed.
6. Title of the course Physics of Devices and Communications has been changed into Physics of Electronic Devices and Circuits (18PHU302) and few topics in Unit II, III, IV and V has been changed.
7. The Electromagnetic Wave Propagation (18PHU501) has been shifted to Semester V from Semester III and Mathematics – I (18PHU304) has been introduced in Semester III.
8. Electromagnetic Wave Propagation Practical (18PHU511) is shifted to Semester V from Semester III and Mathematics Practical – I (18PHU314) is introduced in Semester III.
9. Few topics in Unit II and III in Waves and Optics (18PHU401) have been changed and Units I and V are completely revised.
10. The courses Digital Signal Processing and Digital Signal Processing Practical are removed and instead Mathematics II (18PHU404) and Mathematics Practical II were introduced
11. The courses Computational Physics and Weather Forecasting have been removed and Electromagnetic wave Propagation (18PHU501) has been introduced.
12. New course Embedded System: Introduction to Microcontroller (18PHU503B) has been introduced as elective course along with Digital Electronics and Microprocessor.

M.Sc Physics:

1. Unit II, IV and V has been completely revised in the Course Condensed Matter Physics (18PHP101).

2. In the course Electronic Devices and Circuit (18PHP102), few topics have been removed and changed.
3. The course Thermodynamics and Statistical Mechanics (18PHP201) has been shifted to Semester II. Instead Classical Mechanics and Relativity (18PHP103) has been brought to Semester I from Semester II.
4. The title of the course Material Science (18PHP105A) has been changed into Materials Characterization and all the units are completely revised.
5. Unit V of the course Nuclear Physics (18PHP203) is completely revised and changed.

Percentage of courses revised for UG programme = 19.6 %

Percentage of courses revised for PG programme = 10 %

M.Phil & Ph.D

There is no Changes in the syllabus of M.Phil Physics and Ph.D Physics.

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Minutes of meeting of the board of studies in BME department held on 11.06.2018 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 knowledgeservice, Cbe
4. Dr. P. Manimegalai, Prof/ECE, KAHE
5. Dr. S. Kamalraj, Asst Prof/ECE, KAHE
6. Dr. G. R. Mahendrababu, AP/ECE, KAHE
7. Mr. M. Daranikumar, AP/ECE, KAHE

The chair person welcomed the members of board of studies. The Bos committee scrutinized and has drafted syllabus for 2018 batch.

Agenda 1:

To consider and approve the syllabus for BE Biomedical Engineering

Resolution 1:

Resolved to approve the syllabus for BE Biomedical engineering

Agenda 2:

To consider and approve the modification of syllabus for BME 2018

Resolution 2:

Resolved to modify the curriculum and syllabus for BME 2018 (Approved changes in syllabus are given in **Annexure I**).

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

Annexure –I

The following changes are made in the UG B.E Biomedical Engineering based on the local and global needs. Employability, Entrepreneurship and Skill Development aspects have been taken care off.

Sl. No	Course Code	Course Name	Changes Made
1.	18BECC101	Engineering Mathematics-I	Changes has been made in units 1,2,3,4 and 5
2.	18BEME302	Engineering chemistry	Changes has been made in units 1,2,3,4 and 5
3.	18BEBME103	Programming for Problem Solving	New Course Introduced
4.	18BECC202	Engineering Mathematics-II	Changes has been made in all 5 units
5.	18BEPH203	Engineering Physics	Changes has been made in all 5 units
6.	18BEBME301	Linear Algebra And Partial Differential Equations	Changes has been made in units 4 and 5
7.	18BEBME304	Medical Physics	New Course Introduced
8.	18BEBME312	Digital Electronics Laboratory	New Course Introduced
9.	18BEBME311	Bio Chemistry & Human Physiology Laboratory	Changes has been made in no of experiment.
10.	18BEBME405	Environmental studies	New Course introduced
11.	18BEBME406	Analog and Digital Communication	New Course introduced
12.	18BEBME602	Biomechanics	New Course introduced
13.	18BEBME604	Healthcare &Hospital Management	Changes has been made in all 5 units
14.	18BEBME652	Problem solving and Python Programming	New Course introduced
15.	18BEME702	Rehabilitation Engineering	New Course introduced

The UG program B.E. Biomedical Engineering consists of 61 Courses out of which 7courses come under Skill Development, 50 courses come under Employability and 4 courses come under Entrepreneurship. The following 6 new courses are added in syllabus 2018-2019.

The percentage of change in syllabus for 2018-2019 is **21.96%**.



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Faculty of Engineering

DEPARTMENT OF CIVIL ENGINEERING

Minutes of The Meeting of Board of Studies 2018-19

Minutes of the meeting of the Board of Studies in Civil Engineering held on 11.6.2018 at 10 am in the Department of Civil Engineering at Karpagam Academy of Higher Education.

Members Present:

1. Dr.N.Balasundaram, Professor and Head
Department of Civil Engineering
Faculty of Engineering
Karpagam Academy of Higher Education, Coimbatore – 21
2. Dr.M.Natarajan, Professor
Department of Civil Engineering
Faculty of Engineering
Karpagam Academy of Higher Education, Coimbatore – 21
3. Mr.V.Venugopalan
Department of Civil Engineering
Faculty of Engineering
Karpagam Academy of Higher Education, Coimbatore – 21
- 4.Mr.V.Johnpaul
Assistant Professor,
Department of Civil Engineering
Faculty of Engineering
Karpagam Academy of Higher Education, Coimbatore – 21
- 5.Dr.Sudhakar
Consulting Civil Engineer,
Dimension Structural Design,
RS Puram,
Coimbatore

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 based on the local and global needs.

Agenda: 1

To consider and approve introduction of M.E-Water Resources and Environmental Engineering (Part time) under Faculty of Engineering (FOE) from the Academic year 2018-2019.

Resolution: 1

Resolved to approve the introduction of M.E-Water Resources and Environmental Engineering (Part time) under Faculty of Engineering (FOE) from the Academic year 2018- 2019.

Agenda 2

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

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

Resolution 2

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

1.B.E-Civil Engineering

Considering the employability, entrepreneurship and skill development the following changes were made. All the courses introduced were new courses.

- 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.

2. M.E-Water Resources and Environmental Engineering (Part time)

A new programme M.E-Water Resources and Environmental Engineering (Part time) is introduced for the batch 2018-2019 considering the employability, entrepreneurship and skill development.

2. Ph.D in Civil Engineering

Advanced soil mechanics course and Traffic Engineering and Management course were removed. Theoretical soil mechanics, soil dynamics and machine foundation, soil structure interaction, rock mechanics in engineering practice, reinforced soil structures, Earthquake stress analysis, Rehabilitation and modernization of irrigation structures were added.

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 21 are offered by other departments. There is a syllabus change in 28 courses and hence total change = $(28/29) \times 100 = 97\%$

The Ph.D Programme--Civil Engineering consists of 23 courses out of which 8 courses changed and hence total change = $(8/23) \times 100 = 35\%$

**KARPAGAM ACADEMY OF HIGHER EDUCATION
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Minutes of the meeting of the Board of Studies in Computer Science and Engineering held on 13.06.2018 at 10.00 am 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.M.Vigneshwar (Member)

Assistant Professor-CSE, KAHE

6. Mr. V.M.Ganesh(Expert Member)

Associate Software Engineer,

Cognizant Technology Solutions, Coimbatore.

The chairperson extended a warm welcome to the members of the Board of Studies. The chairperson presented the draft curriculum to the expert members for discussion and suggestions. Leave of absence granted to Dr. S. Gokuldev, Department of CSE, Amrita University, Mysore Campus, Karantaka.

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 BE. CSE programme.

Resolution: 1

The Board Member Mr.V.M. Ganesh has agreed that following changes may be included in the curriculum.

S.No	Course Code	Course Name
1.	18BECS101	Mathematics-I(Calculus and Linear Algebra for Computer Science Engineers)
2.	18BECS102	English
3.	18BECS141	Semiconductor Physics
4.	18BECS142	Programming For Problem Solving
5.	18BECS201	Probability and Statistics
6.	18BECS241	Chemistry-I
7.	18BECS242	Basic Electrical Engineering
8.	18BECS211	Workshop/Manufacturing Practices
9.	18BECS212	Engineering Graphics& Design
10.	18BECS302	Environmental Studies
11.	18BECS341	Analog Electronic Circuits
12.	18BECS301	Mathematics-III (Differential Calculus)
13.	18BECS342	Data structure & Algorithms
14.	18BECS343	Digital Electronics
15.	18BECS311	IT Workshop (SCILAB Programs)
16.	18BECS401	Discrete Mathematics
17.	18BECS402	Management I(Organizational Behavior)
18.	18BECS441	Computer Organization & Architecture
19.	18BECS501	Signals and Systems
20.	18BECS503	Professional Ethics
21.	18BECC704	Biology

Further the External members accepted the complete changes made in the existing syllabi of the following existing courses.

S.No	Course Code	Course Name	Changes Introduced
1.	18BECS443	Design and Analysis of Algorithms	All 5 units updated
2.	18BECS641	Compiler Design	All 5 units updated
3.	18BECS541	Database Management Systems	All 5 units updated and shifted to Sem V
4.	18BECS502	Formal Languages and Automata	All 5 units updated and shifted to Sem V
5.	18BECS442	Operating Systems	All 5 units updated and shifted to Sem IV

6.	18BECS642	Computer Networks	All 5 units updated and shifted to Sem VI
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In all the courses substantial **changes approximately 25 percent** and all the courses are considered as **new courses**.

The copy of the approved syllabus/syllabi is enclosed. The meeting came to the end with a vote of thanks by the chair person.

The U.G Program B.E Computer Science and Engineering Consists of 54 courses. The change in the content of the syllabus is $=48/74*100=64.86\%$.

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

Agenda: 2

To Consider and approve the curriculum for Ph.D Computer Science and Engineering Programme for the academic year 2018-2019.

Resolution: 2

The Board Member Mr.V.M. Ganesh has agreed that following courses may be included in the curriculum.

Courses offered for Paper II

S.No	Course Code	Course Name
1.	18RCSE207	Internet of Things
2.	18RCSE208	Natural Language Processing
3.	18RCSE209	Machine Learning
4.	18RCSE210	Virtual Reality

Courses offered for Paper III

S.No	Course Code	Course Name
5.	18RCSE315	Bio Informatics

Total number of courses present during the year 2017-18 = 21

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

Percentage change in the syllabi $=5/21*100=23.81\%$

Resolved to approve the curriculum for Ph.D Computer Science and Engineering programme and it comes in to effect from 2018-2019 (Approved syllabus given in Annexure-I)

BOS (2018-2019)

Minutes of Board of Studies:

Minutes of meeting of the board of studies in ECE department held on 11.06.2018 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 and has drafted syllabus for I & II semester for 2018 batch & the syllabus for PHD course work

Agenda 1:

To consider and approve the syllabus for I&II semester of BE Biomedical Engineering

Resolution 1:

Resolved to approve the syllabus for I & II semester of BE Biomedical Engineering
(Approved changes in syllabus is given in **Annexure I**)

Annexure I

Sl. No	Course Code	Course Name	Changes Made
1	18BEEC101	Mathematics –I	Changes has been made all the 5 units
2	18BEEC102	Semi-Conductor Physics	Changes has been made all the 5 units
3	18BEEC103	English	Changes has been made all the 5 units
4	18BEEC104	Programming For Problem Solving	Changes has been made all the 5 units
5	18BEEC201	Mathematics – II	Changes has been made all the 5 units
6	18BEEC202	Chemistry – I	Changes has been made all the 5 units
7	18BEEC203	Basic Electrical Engineering	Changes has been made in unit 4 and 5
8	18BEEC204	Environmental Sciences	Changes has been made all the 5 units
9	18BEEC206	Engineering Graphics and Design	Changes has been made in unit 2, 3 and 5
10	18BEEC302	Electronic Devices	Changes has been made in unit 1, 2 and 5
11	18BEEC303	Digital System Design	Changes has been made in unit 3, 4 and 5
12	18BEEC304	C++ & Data Structures	Changes has been made all the 5 units
13	18BEEC305	Signals and Systems	Changes has been made in unit 2, 3 and 4
14	18BEEC306	Network Theory	Changes has been made in unit 3, 4 and 5
15	18BEEC311	C++ & Data Structures Laboratory	Changes has been made all the 5 units
16	18BEEC401	Material Sciences	Changes has been made all the 5 units
17	18BEEC402	Analog Circuits	Changes has been made all the 5 units
18	18BEEC403	Analog and Digital Communication	Changes has been made all the 5 units
19	18BEEC404	Microcontroller	Changes has been made in unit 3, 4 and 5
20	18BEEC411	Microcontroller Laboratory	2 experiments has been

			excluded
21	18BEEC413	Analog and Digital Communication Laboratory	Changes has been made in 3 experiments
22	18BEEC501	Probability and Random Processes	Changes has been made all the 5 units
23	18BEEC502	Computer Architecture	Changes has been made in unit 1,2,3 and 5
24	18BEEC503	Digital Signal Processing	Changes has been made in unit 1, 2 and 4
25	18BEEC504	Electromagnetic Waves	Changes has been made in unit 1, 4 and 5
26	18BEEC512	Antenna Laboratory	Changes has been made all the experiments
27	18BEEC602	Control Systems	Changes has been made in unit 1, 4 and 5
28	18BEEC603	Computer Networks	Changes has been made in unit 1, 2, 4 and 5
29	18BEEC611	Computer Networks Laboratory	Changes has been made all the experiments
30	18BEEC612	Electronic Measurement Laboratory	Changes has been made all the experiments
31	18BEEC701	Professional Ethics	Changes has been made all the 5 units
32	18BEEC5E01	Biomedical Electronics	Has been Included in the Syllabus as new course
33	18BEEC5E02	Antennas and Wave Propagation	Changes has been made in unit 1, 2, 3 and 4
	18BEEC5E03	Information Theory and Coding	Has been Included in the Syllabus as new course
34	18BEEC6E01	Power Electronics	Has been Included in the Syllabus as new course
35	18BEEC6E02	Introduction To MEMS	Has been Included in the Syllabus as new course
36	18BEEC6E03	CMOS Design	Has been Included in the Syllabus as new course
37	18BEEC6E04	Nano Electronics	Changes has been made all the 5 units
38	18BEEC7E01	Satellite Communication	Changes has been made all the 5 units
39	18BEEC7E02	Embedded Systems	Changes has been made in unit 3, 4 and 5
40	18BEEC7E03	Microwave Theory And Techniques	Changes has been made in unit 1,2,3 and 5

41	18BEEEC7E04	VLSI Technology	Has been Included in the Syllabus as new course
42	18BEEEC7E05	Mixed Signal Design	Has been Included in the Syllabus as new course
43	18BEEEC7E09	Digital Logic Design With Plds And Vhdl	Has been Included in the Syllabus as new course
44	18BEEEC7E10	Speech And Audio Processing	Has been Included in the Syllabus as new course
45	18BEEEC7E11	Mobile Communication And Networks	Has been Included in the Syllabus as new course
46	18BEEEC7E12	Digital Image And Video Processing	Changes has been made in unit 2,3,4 and 5
47	18BEEEC8E02	Fiber Optic Communication	Has been Included in the Syllabus as new course
48	18BEEEC8E03	Wavelets	Has been Included in the Syllabus as new course
49	18BEEEC8E05	Error Correcting Codes	Has been Included in the Syllabus as new course
50	18BEEEC8E06	Adaptive Signal Processing	Has been Included in the Syllabus as new course
51	18BEEEC8E07	Wireless Sensor Networks	Has been Included in the Syllabus as new course

Agenda 2:

To consider and approve the modification of syllabus for PHD of course work for 2018

Resolution 2:

Resolved to modify the circular and syllabus for PHD in ECE for 2018 & 2019

(Approved changes in syllabus is given in **Annexure II**)

Annexure II

1. Three new courses titled “ VLSI signal processing, wavelets and multi resolution processing and Computer vision and image processing”are added in Paper II
2. 2 new courses titled “ VLSI design methodologies and programming in HDL and Pattern recognition” are added in Paper III.

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

The UG program BE- Biomedical Engineering consists of 9 Courses for I and II Semester out of which 1 is language course. There is a syllabus change in 8 courses and hence the total change is $8/9*100=88.8\%$

The UG program BE- Electronics and Communication Engineering for Academic year 2018-19 consists of 60 Courses out of which it has 26 Allied Engineering courses. There is a syllabus change in 30 courses and hence the total change is $30/34*100=88.23\%$

The Ph.D program in ECE for Academic year 2018-19 consists of 22 Courses. Three new courses titled “ VLSI signal processing, wavelets and multi resolution processing and Computer vision and image processing” are added in Paper II and 2 new courses titled “ VLSI design methodologies and programming in HDL and Pattern recognition” are added in Paper III. 5 New Courses are introduced. There is a syllabus change of 5 course and hence the total change is $5/22*100=22.72\%$

**KARPAGAM ACADEMY OF HIGHER EDUCATION
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12-06-2018

Minutes of the meeting of the Board of Studies in 2018-2019 held on 12-06-2018 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.
6. Er. B. SHANMUGA SUNDRAM,
PROJECTS- HEAD,
M/S. STEPS KNOWLEDGE SERVICES PVT. LTD.
“ SHRINIVAS”, ONDIPUDUR, 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 the following programme

B.E (Electrical and Electronics Engineering)

Resolution: 1

Resolved to approve the Regulations and Syllabus for BE (EEE) Full Time programme and it comes into effect from 2018-19.

New Courses introduced

S. No.	Course Code	Name of the Course
1.	18BEEE104	Programming For Problem Solving (With C)
2.	18BEEE302	Analog Electronics
3.	18BEEE351	NSS/NCC/PCB Design
4.	18BEEE305	Engineering Mechanics
5.	18BEEE404	Signals and Systems
6.	18BEEE406	Environmental Studies
7.	18BEEE405	Mathematics – III (Probability and Statistics)
8.	18BEEE451	Constitution of India/ Essence of Indian Traditional Knowledge
9.	18BEEE504	Engineering Economics and Financial Management
10.	18BEEE601	Total Quality Management
11.	18BEEE602	Power Systems – II (Operation and Control)
12.	18BEEE612	Electronics Design Laboratory
13.	18BEEE7E_	Program Elective -V
14.	18BE __ 8OE_	Open Elective -V
15.	18BE__ 8OE_	Open Elective-VI

The electives introduced are:

S. No.	Course Code	Name of the Course
1.	18BEEE6E04	Electromagnetic Waves
2.	18BEEE6E05	Computational Electromagnetics
3.	18BEEE6E06	Control Systems Design
4.	18BEEE6E07	Industrial Electrical Systems
5.	18BEEE6E08	Electrical Drives
6.	18BEEE6E09	Line Commutated and Active Rectifiers
7.	18BEEE7E01	Wind and Solar Energy Systems
8.	18BEEE7E03	Power System Protection
9.	18BEEE7E04	HVDC Transmission Systems

The changes in the existing courses are:

S. No.	Course Code	Name of the Course	Changes Introduced
1	18BEEE103	English	Unit-I to Unit V

2	18BEEE101	Mathematics-I (Calculus and Differential Equations)	Unit-I,Unit-II,Unit-III and Unit V
3	18BEEE102	Waves, Optics and Introduction to Quantum Mechanics	Unit-I to Unit V
4	18BEEE201	Mathematics-II (Linear Algebra, Transform calculus and Numerical Method)	Unit-I to Unit V
5	18BEEE202	Chemistry-I	Unit-I to Unit V
6	18BEEE203	Basic Electrical Engineering	Unit-I to Unit V
7	18BEEE211	Workshop/ Manufacturing Practices	Unit-I to Unit V
8	18BEEE212	Engineering Graphics& Design	Unit-I, Unit II and Unit V
9	18BEEE301	Electrical Circuit Analysis	Unit-I to Unit V
10	18BEEE303	Electrical Machines – I	Unit-I to Unit V
11	18BEEE304	Electromagnetic Fields	Unit-I to Unit V
12	18BEEE311	Analog Electronics Laboratory	Unit-I to Unit V
13	18BEEE401	Digital Electronics	Unit-I to Unit V
14	18BEEE402	Electrical Machines – II	Unit-I to Unit V
15	18BEEE403	Power Electronics	Unit-I to Unit V
16	18BEEE411	Digital Electronics Laboratory	Unit-I to Unit V
17	18BEEE501	Power Systems – I (Apparatus and Modelling)	Unit-I to Unit V
18	18BEEE502	Control Systems	Unit-I to Unit V
19	18BEEE503	Microprocessors	Unit-I to Unit V
20	18BEEE511	Power Systems Laboratory – I	Unit-I to Unit V
21	18BEEE611	Power Systems Laboratory – II	All

22	18BEEE701	Professional Ethics	Unit-I to Unit V
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Agenda: 2

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

Agenda: 3

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

M.E (Power Systems Engineering-Part time)

Resolution: 3

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

Agenda: 4

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

- P.hD (Electrical and Electronics Engineering)

Resolution: 4

Resolved to approve the Regulations and Syllabus for P.hD (Electrical and Electronics Engineering) programme and it comes into effect from 2018-19 .

New Courses introduced

S. No.	Course Code	Name of the Course
1.	18REEE317	Embedded System
2.	18REEE318	Artificial intelligence Applications to Power System

The UG programme B.E. Electrical and Electronic Engineering Consists of 54 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 37 course and hence total change = **= 68.51%**

The UG programme B.E. Electrical and Electronic Engineering –Part time consists of 35 courses out of which 7 courses come under the category of Science and Humanities, Management and Allied Engineering courses. There 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 **100% new syllabus** .

The Ph.d programme consists of 25 courses out of which 01 courses come under the MBA department courses . There is two new courses introduced and hence total change = $02 / (25 - 01) = 8.33 \%$

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 (2018 - 2019)

Minutes of Board of Studies:

Minutes of the meeting of the Board of Studies in Mechanical Engineering held on June 13.06.2018 [Wednesday] at 3.00pm in 308 H Block, Mechanical Engineering, Karpagam Academy of Higher Education, Coimbatore.

Member Present:

- 1) Dr.P.Shanmughasundaram, Professor and Head, Department of Mechanical Engineering, KAHE.
- 2) Dr.K. Thirunavukkarasu, Sr. Professor, Department of Mechanical Engineering, KAHE.
- 3) Dr. Debabrata Barik, Associate Professor, Department of Mechanical Engineering, KAHE.
- 4) Dr.C.RameshKannan, Associate Professor, Department of Mechanical Engineering, KAHE.

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 2018 – 19.

Resolution 1:

Resolved to modify curriculum and syllabus for B.E Mechanical Engineering (Full Time) for the Academic Year 2018 – 19 (Approved changes in syllabus is given in **Annexure I**).

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

The following elective courses are newly introduced the academic Year 2018 – 19 syllabi.

Sl. No	SUB. CODE	TITLE OF THE COURSE
1	18BEME6E01	Emerging Materials
2	18BEME6E10	Vibration Analysis and Control
3	18BEME6E12	Hybrid Vehicle Technology
4	18BEME7E06	Logistics & Supply Chain Management
5	18BEME7E08	Design of Mechatronic Systems
6	18BEME7E11	Advanced Welding Technology
7	18BEME7E15	Design of HVAC Systems
8	18BEME7E16	Non-Destructive Testing
9	18BEME7E17	Industrial Safety Engineering
10	18BEME7E18	Surface Engineering

The following courses are removed from the academic Year 2017 – 18 syllabi.

Sl. No	SUB. CODE	TITLE OF THE COURSE
1	17BECC101	Communicative English
2	17BEME104	Basic Mechanical Engineering
3	17BEME404A	Industrial Metallurgy
4	17BEME404B	Engineering Materials
5	17BEME405A	Kinematics of Machinery
6	17BEME451	Production Drawing and Cost Estimation

Agenda II.

To consider and approve the regulations and syllabi for the New programme BE (Mechanical Engineering, Part Time) for the Academic Year 2018 – 19.

Resolution II:

Resolved to modify curriculum and syllabus for B.E Mechanical Engineering (Part Time) for the Academic Year 2018 – 19.

The UG programme B.E. Mechanical Engineering – Full Time consists of 78 courses out of which 19 courses are in Science and Humanities and other allied engineering courses. The syllabus change is 50%.

The UG programme B.E. Mechanical Engineering –Part time consists of 70 courses out of which 7 courses come under the category of Science and Humanities, Management and Allied Engineering courses. This is a 100% new syllabus.

Ph. D. Mechanical Engineering

The Ph D Mechanical Engineering consists of 11 courses. The academic year 2017 – 18 curricula and syllabi will be followed in academic year 2018 – 19.

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

Minutes of the meeting of Board of Studies 2018-19

Minutes of the meeting of the Board of Studies in **B.Tech Biotechnology** held on **13.06.2018** at **10.00 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. G.R. Prabu, Associate Professor, Dept. of Biotechnology, FASH, KAHE
3. Dr. K. Devaki, Associate Professor, Dept. of Biochemistry, FASH, KAHE
4. Ms. P. Esther Jemima, Asst Professor, Dept. of Biotechnology (B.Tech), FoE, KAHE
5. Ms. V. Vijayalakshmi, Asst Professor, Dept. of Biotechnology (B.Tech), FoE, KAHE
6. Dr.K.M.Aravinthan, Director, Marutham Bioages Innovations Pvt Ltd., Coimbatore.

The Chairperson welcomed the members of the Board. Leave of absence granted to Dr. K. Ruckmani . The Board carefully scrutinized the draft syllabus / syllabi and after detailed discussion the following resolutions were passed.

Agenda: 1

1. To consider and approve the Regulations and Syllabus for B.Tech Biotechnology programme.

Resolution: 1

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

Annexure I

The following corrections and suggestions may be included in B.Tech Biotechnology Syllabus 2018-2019 on the local and global needs. Employability, Entrepreneurship and Skill development aspects have been taken care off.

S.No.	Course Code	Course Name	Changes made
1.	18BTBT101	Mathematics-I	Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5

2.	18BTBT102	Chemistry-I	Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5
3.	18BTBT103	Basic Electrical Engineering	Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5
4.	18BTBT111	Engineering Graphics & Design	Changes has been made in Unit 2 and Unit 5
5.	18BTBT201	Mathematics –II	Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5
6.	18BTBT202	Engineering Physics	Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5
7.	18BTBT203	English	Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5
8.	18BTBT204	Programming for Problem Solving	New Course Introduced
9.	18BTBT205	Biochemistry	Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5
10.	18BTBT301	Transforms and partial differential equation	New Course Introduced
11.	18BTBT303	Microbiology	Changes has been made in Unit 5
12.	18BTBT311	Cell Biology and Microbiology Lab	New Course Introduced
13.	18BTBT351	Constitution of India	New Course Introduced
14.	18BTBT352	Synthesis of Organic molecules	New Course Introduced
15.	18BTBT402	Unit operations	Changes has been made in Unit 1 and Unit 5
16.	18BTBT406	Environmental Studies	Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and

			Unit 5
17.	18BTBT411	Chemical Engineering Lab	Changes has been made
18.	18BTBT505	Bioinformatics	Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5
19.	18BTBT711	Downstream Processing Lab	Changes has been made
20.	18BTBT5E06	Human Anatomy and Physiology	New Course Introduced
21.	18BTBT6E01	Recombinant enzyme and therapeutic agents production	New Course Introduced
22.	18BTBT6E04	Good Manufacturing Practice	New Course Introduced
23.	18BTBT6E08	Programming in Bioinformatics	New Course Introduced
24.	18BTBT6E11	Introduction to Data Analytics	New Course Introduced
25.	18BTBT7E03	Molecular Diagnostics	New Course Introduced
26.	18BTBT8E01	Agriculture Biotechnology	New Course Introduced
27.	18BTBT8E06	Structural Biology	New Course Introduced
28.	18BTBT8E08	Introduction to systems Biology	New Course Introduced
29.	18BTBT8E09	Genome informatics and Big data analysis	New Course Introduced
30.	18BTBT8E10	Health informatics	New Course Introduced
31.	18BTBT8E11	Molecular Modeling	New Course Introduced
32.	18BTBT8E12	Neurobiology and cognitive science	New Course Introduced

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 2018-19 (Approved Regulations and Syllabus given in Annexure-II).

Annexure II

The following corrections and suggestions may be included in Ph.D. Biotechnology Syllabus 2018-2019.

- **Three new courses (18RBTE308, 18RBTE309, 18RBTE310) are introduced in Paper III (Special Paper) and it was approved.**
- The contents of Unit V of courses (18RBTE201, 18RBTE205, 18RBTE301, 18RBTE303) may be specifically given with the recent advanced topics and case studies.
- **18RBTE101:** Unit IV and V may be clubbed and Unit V may be elaborated on pedagogy.
- **18RBTE202:** Topics such as biomarkers for kidney function may be included in Unit I; Tumor suppressor genes, Cell cycle check points may be included in unit IV; In Unit V, under metabolic disorders, apart from diabetes, few more disorders may be included.
- **18RBTE203:** Renaming the course as Instrumental Methods of Analysis in Biotechnology is suggested; Fluorescence Activated Cell Sorting (FACS) may be included in Unit IV. The topic of protein separation techniques may be included.
- **18RBTE204:** The latest editions of the texts in the reference list are suggested.
- **Advances in Plant Molecular Biology** and **Advances in Genetic Engineering** courses may be clubbed together and a new course on Cell Culture Techniques may be included.
- **18RBTE308:** 'Role of Virus infection and human cancer' topic may be included.

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

The UG programme B.Tech Biotechnology consists of 78 courses out of which 14 courses are in Science & Humanities, Management and other allied Engineering courses. 5 courses comes under Skill development, 65 courses comes under Employability, 8 courses comes under Entrepreneurship. The 16 new courses are added in the syllabus 2018-2019. The average percentage of change in syllabus for 2018-2019 is 42.11 %.

The PhD programme PhD in Biotechnology consists of 16 courses. There is a syllabus change in 13 courses and hence the total change is $13 / 16 * 100 = 81.25 \%$

Karpagam Academy of Higher Education

Department of Chemical Engineering

Board of Studies Meeting (2018 - 2019)

Minutes of meeting of the board of Studies in **B.Tech Chemical Engineering** held on **13.06.2018** at **10:00 am** in the **Department of Chemical Engineering** at Karpagam Academy of Higher Education.

Members present:

1. Dr.R.Thilagavathi, Professor & Head, Department of Biotechnology (B.Tech), FoE, KAHE.
2. Dr.S.Ravi, Professor & Head, Department of Chemistry, FASH, KAHE.
3. Mr.A.Sivanantham, Associate Professor, Department of Mechanical Engineering, FoE, KAHE.
4. Dr.M.Thirumaraimurugan, Professor & Head, Department of Chemical Engineering, Coimbatore Institute of Technology, Coimbatore.

The chairperson welcomed the members of the Board. Leave of absence granted to Dr.Raj Kumar Rajagopal & Dr.K.Saravanan. The board carefully scrutinized the draft syllabus/syllabi and after detailed discussions the following resolutions were passed.

Agenda: 1

1. To consider and approve the Regulations and syllabus for B.Tech Chemical Engineering programme(I& II Semester).

Resolution: 1

1. Resolved to approve the Regulations and Syllabus for B.Tech Chemical Engineering programme(I& II Semester) and it comes into effect from 2018-19 (Approved Regulations and Syllabus given in Annexure-I).

Annexure I

The following corrections and suggestions may be included in **B.Tech Chemical Engineering Syllabus 2018-2019 (I & II Semester)**.

- **18BTCE203-** Recent editions of the text books may be included

From semester III to VIII, no changes have been made.

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

The UG programme B.Tech. Chemical Engineering Consists of courses 70 out of which, 21 courses come under the category of Science and Humanities, Management and Allied Engineering courses . There is a syllabus change in 1 course and hence total change = $1 / (49) = 2.04 \%$

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

Minutes of the meeting of the Board of Studies in Architecture held on **11.06.2018** at **11.00 AM** in the Faculty of Architecture at Karpagam Academy of Higher Education.

Members:

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. Dr.Paul Varghese,
X1/223, Kaliankara House,
Railway Station Road,
Irinjalakuda, Kerala – 680121
Ph.No: 9446238770
6. Ar.Balakrishnaa V
Senior Professor
Karpagam Academy of Higher Education,
Coimbatore – 641 021
Ph.No:9842468559
7. Ar.Bhuvanasundram,
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 syllabus / syllabi and after detailed discussion the following resolutions were passed.

Agenda: 1

To consider and approve the Regulations and Syllabus for **B.Arch** programme.

Changes made in B.Arch Syllabus:

1. The curriculum of semester 7 and semester 8 has been changed.
2. Semester 7 is proposed with list of courses such as Housing, Urban Design, Architectural Design, Estimation & Specification and Electives.
3. The student will undergo the practical training during the semester 8.

The change in syllabi is 4.0%

Resolution: 1

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

Agenda: 2

To consider adoption of the curriculum of **Semester 7 and Semester 8** for **B.Arch** programme from the academic year 2018-19.

Resolution: 2

Resolved to approve the adoption of the curriculum of **Semester 7 and Semester 8** for **B.Arch** programme from the academic year 2018-19 (Approved Regulations and Syllabus given in Annexure-II).

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 **11.06.2018** at **11.45 AM** 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.Sriviji N
Associate Professor
Karpagam Academy of Higher Education,
Coimbatore – 641 021,
Ph.No: 9786721215
4. Ar.Athira S,
Assistant Professor,
Karpagam Academy of Higher Education,
Coimbatore – 641 021,
Ph.No: 9446957890
5. Ar. Bhuvanasundar,
Sundar Sundaram Architects,
182, Thirugnanasambandam Road,
Race Course, Gapalapuram,
Coimbatore – 641018.

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.Des** programme.

Changes made in B.Des (Interior Design) Syllabus:

1. The nomenclature of Psychology of Interiors and History of Interiors has been interchanged
2. Introduce Sketchup and Autocad software in second semester computer application
3. Modular interiors to be introduced in the higher semester as an important chapter.
4. Materials should be related to interiors and request to develop a materials resource center.

* These are the suggested changes in the syllabus of Interior Design course.

The change in syllabi is 2.2%

Resolution: 1

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

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

Minutes of the meeting of the Board of Studies in **Master of Architecture** held on **11.06.2018** at **11.00 AM** in the **Faculty of Architecture**, at Karpagam Academy of Higher Education.

Members Present:

1. Ar.Kathiravan P, Chairperson
Dean i/c, Faculty of Architecture,
Karpagam Academy of Higher Education,
Coimbatore – 641 021.
Ph.No: 9994220005

2. Ar.Vimal C, Internal Member –
Asso.Prof
Associate Professor,
Karpagam Academy of Higher Education,
Coimbatore – 641 021.
Ph.No: 9629426939

3. Dr.Paul Varghese, External
Member–Academic
X1/223, Kaliankara House,
Railway Station Road,
Irinjalakuda, Kerala – 680121
Ph.No: 9446238770

4. Ar.Balakrishnaa V Internal Member –
Senior Prof
Senior Professor
Karpagam Academy of Higher Education,
Coimbatore – 641 021,
Ph.No: 9842468559

5. Ar.Bhuvanasundram, External
Member–Industry
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 syllabus / syllabi and after detailed discussion the following resolutions were passed.

Agenda: 1

1. To consider and approve the Regulations and Syllabus for **M.Arch** programme for Academic year 2018-19

No changes were made in the M.Arch Curriculum and Syllabus

Resolution: 1

1. Resolved to approve the Regulations and Syllabus for **M.Arch** programme and it comes into effect from Academic year 2018-19 (Approved Regulations and Syllabus given in Annexure-I).

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 **Planning** held on **11.06.2018** at **12.30 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.Balakrishnaa V
Senior Professor
Karpagam Academy of Higher Education,
Coimbatore – 641 021
Ph.No: 9842468559
4. Ar.Hiranmayi S
Assistant Professor
Karpagam Academy of Higher Education,
Coimbatore – 641 021,
Ph.No: 9886813205

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 **M.Plan** programme.

Changes made in Syllabus:

1. **18MPN101- Planning theory and practice**
 - a. Sustainable livelihood and strategies to be included as a part of socio – economic and spatial aspects of human settlements and planning under semester 1.
 - b. **UNIT 1 Planning Principles And Process** - *the Transactive approach, the Communicative approach, the Advocacy approach, the Equity approach, the Radical approach, and the Humanist approach.*
 - c. **UNIT 2 Planning Theories And System** - *Theories: Concentric Zone Theory, Sector Theory, Multiple Nuclei Theory and other relevant theories; Concepts: Garden City Concept;*
 - d. **UNIT 3 Planning Surveys** - *Data requirement for planning: questionnaire design, scale and application, sampling techniques. Techniques of conducting surveys for socio – economic, land use, density, structural condition of buildings, height of building, land utilization, physical features of land and transport survey*
2. **18MPN102 - Socio – economic and spatial aspects of human settlements and planning**
 - a. Urban economics to be included as a part of socio – economic and spatial aspects of human settlements and planning under semester 1.
 - b. **UNIT 1 Sociology concepts and Socio-spatial aspects** - *Introduction to the sociological concepts of Marx, Talcot, Parsons, Weber, Durkheim, Riesman, Jacobs.*
 - c. **UNIT 3 SOCIO - Economic, and Geographic concern and development** - *Role of socio-cultural aspects on growth patterns of city and neighbourhood communities; Social planning and policy, and community participation;*
 - d. **UNIT 4 Urban land use and settlements organization** - *Economic growth and development, quality of life; Human development index; Economic principles in land use planning;*
3. **18MPN103 - Traffic and transportation planning**
 - a. **UNIT 1 Transport development in india** - *Transportation in cities.*
 - b. **UNIT 2 Urban transportation system & trip generation analysis** - *Transport planning process, Problem definition, Solution generation, Solution analysis, Evaluation and choice, Implementation - Sequence of activities involved in transport analysis*
 - c. **UNIT 3 Mode choice modeling and trip distribution analysis-** *Mode Choice Modeling: Influencing Factors, Earlier Modal Split Models, Trip-End Type Modal Split Model, Trip-Interchange Modal Split Model,*
 - d. **UNIT 4 Trip distribution analysis and route assignment** - *Trip Distribution Analysis: Presentation of Trip-Distribution Data, PA Matrix to OD Matrix, Basis of Trip Distribution, Gravity Model of Trip Distribution, Calibration of Gravity Model, Singly and Doubly Constrained, Gravity Models.*
 - e. **UNIT 5 Transport survey and highway capacity** - *Transportation Survey: Definition of Study Area Zoning Types of Movements.*
4. **18MPN121 – Planning Studio I** - Action planning to be a part of studio in the first year syllabus.
5. **18MPNE1A - PUBLIC TRANSPORT PLANNING**
 - a. **UNIT 1 Introduction to public transport systems** - *Highway systems – Road type & classification, road patterns,*
 - b. **UNIT 2 Public transport performance & economic aspects (part1)**-*Identification &Measurements of Highway Benefits,*
 - c. **UNIT 3 Public transport performance and economic aspects (Part 2)**-*Introduction to PPP - Concepts of BOO, BOT, BOOT,*
6. **18MPNE1B - Transport Economics**
 - a. **UNIT 1 Transport demand and supply** - *Concepts and Principles of Engineering Economics, Identification and Measurements of Highway Benefits*
 - b. **UNIT 3 Costing and pricing of transport services (part2)**- *Methods of Economic Analysis:*

- c. **UNIT 4 Principles of economic appraisal** - *Methods of Economic Analysis, Comparison of the Methods of Analysis-, Characteristics and Limitations of the Different*
7. **18MPNE1C - Disaster Management**
- UNIT 1 Disaster** - *Types of Incident Management, Stage of Disaster management –Hazard and vulnerability introduction,*
 - UNIT 2 Natural and man-made disasters** - *Types of natural Disasters- Seismic, Mass movement, Hydrological, Metrological disasters - its types, magnitude, intensity and its managements,*
 - UNIT 3 Disaster policy and risk analysis** - *Disaster management plan at national and state,*
 - UNIT 4 Disaster and technology** - *Disaster mitigations for Earthquake, flood and cyclone – Retrofitting, Technology, building materials, design considerations, - Prediction. Land use planning and regulations: Temporary settlements and communications,*
8. **18MPNE1D - Real estate and housing markets**
- UNIT 1 Introduction** - *Factors affecting real estate market, role of govt. in real estate, statutory provisions, risk management.*
 - UNIT 2 Investment & laws-Principles for drafting agreements relating to real estate.**
 - UNIT 3 Real estate project formulation-Entrepreneur & Entrepreneurship, Direct Purchase Vs Joint Venture Models of Development.**
9. **18MPNE1E-Materials, Technology and Infrastructure**
- UNIT 1 Introduction to materials and technology** – *Intro. to mechanization: Definition, advantages and limitations of mechanization,*
 - UNIT-2Prefabrication & industrialization-Types of prefabrication–site and plant- Economy of prefabrication**
 - UNIT 3 Construction industry** - *Quality policy in construction industry,*
 - UNIT 5 Alternative technologies** - *Current and future trends in Construction technologies*
10. **18MPN201- City Planning**
- UNIT1 Introduction** - *Urban - classification, Characteristics of Urban area, Impacts of urbanization – Global and India, Land utilization,*
 - UNIT 3 Zonal plan & DCR** - *Introduction, Site & background analysis, Conceptual framework, Proposals and development strategy,*
 - UNIT 4 Case studies** - *Eco cities, Healthy cities, Low carbon cities, resilient cities,*
 - UNIT 5 Urban renewal** - *JNNURM – Mission, eligibility, Finance, Implementation and targets, AMRUT– Mission, eligibility, Finance, Implementation and targets.*
11. **18MPN202 - Regional Planning**
- UNIT I Concept of regional planning** - *Concept - Defining a region- fluidity and purpose, and need for regional planning and regional development,*
 - UNIT 2 Techniques of regional analysis** - *Socio-cultural context of a project, five entry points to social analysis of a project and how to do that, Use of social assessment methods: PRA, SARAR, etc,*
 - UNIT 4 Regional development pattern** - *Regions in Indian Context: Resource Regions, Corridors as regions, National, subnational and State as a region, macro, meso and micro regions in India,*
 - UNIT 5 Case studies** - *Case Studies from India: NCR and Delhi Mega Region, Mumbai Mega Region,*
12. **18MPN203 - Research Methodology**
- UNIT 1 Research and Planning** - *Research methods vs Methodology, Types of research.*
 - UNIT 4 Data analysis** - *Measures of Central Tendency and Dispersion, Time Series and Forecasting,*
 - UNIT 5 Report writing** - *Structure and components of scientific reports -Types of report - Technical reports and thesis - Significance - Different steps in the preparation, Layout, structure and Language of typical reports,*
13. **18MPNE2A - Rural And Urban Housing**
- UNIT 1 Introduction urban and rural housing policies** - *Mutual dependence between urban and rural areas. Levels of living of rural people.*
 - UNIT 3 Housing in rural** - *Planning principles for village and community norms.*
 - UNIT 4 Global overview** - *Rural energy issues, renewable and alternative resources of energy, ecological and environment considerations in rural development and village planning.*
14. **18MPNE2B - Planning Legislation and Professional Practice**
- UNIT 1 Concept of planning legislation** - *The concept of law, legislation, ordinance, bill, Act Regulation and by-laws, concept of Eminent Domain and Police Powers.*

- b. **UNIT 3 Acts related to planning and implications of laws and legislation on development** - State Housing Board Act, and National Rehabilitation and Resettlement Policy (2007) - Social Impact mitigation, National Environmental Policy (2006),
- 15. **18MPNE2C - GIS modeling in urban and regional planning**
 - a. **UNIT 1 Introduction** - Definition, map and map analysis, automated cartography, history and development of GIS, Hardware requirement, system concepts, co-ordinate systems, standard GIS Packages.
 - b. **UNIT 4 Spatial analysis using Gis** - GIS data processing (Digitization , topology building and metadata creation), Data structures and modeling , GIS Analysis (Buffer , proximity and overlay),
- 16. **18MPNE2D - Urban development and management**
 - a. **UNIT 1 Introduction to development management** - Land Economics, Land Policy and Land Markets
 - b. **UNIT - III Land and Real Estate (Part 1)** - Supply Side Management- Property Rights, Land Development. Demand Side Management- Income elasticity of land, business cycles and its impact;
 - c. **UNIT 5 Information System and Urban Reforms** - Land Information System (LIS): Land records in rural areas (examples from Karnataka, Andhra, etc), transparency in land transaction, methods of publicizing land prices and land price monitoring .
- 17. **18MPNE2E - Inclusive Urban Planning**
 - a. **UNIT 1 Understanding inclusive Urban Planning** - Needs, Unsustainable current planning practices.
 - b. **UNIT 2 Stakeholders profile and needs, access to shelter, services and livelihoods (part 1)** - Identification and characteristics of Social Groups and Weaker Sections.
 - c. **UNIT 3 STAKEHOLDERS PROFILE AND NEEDS, ACCESS TO SHELTER, SERVICES AND LIVELIHOODS (PART 2)** - Slums - dimensions, causative factors, determinants,
 - d. **UNIT 4 PARTICIPATORY PLANNING & POLICIES, PROGRAMMES & LEGISLATION** - Analyzing the Current Legal and Regulatory Environment w.r.t PP
- 18. **18MPN301 - Environmental Planning**
 - a. **UNIT 1 Development consequences on environment** - Introduction to Environmental planning, aims, objectives and Implementation.
 - b. **UNIT 2 Environmental Management And Standards** - Environment planning theories and their applications.
 - c. **UNIT 4 Environmental decision making** - Multicriteria decision analysis – Mitigation and environmental management plan, Environmental protection international and national agencies and legislation, Environmental policies for various geographical regions.
 - d. **UNIT 5 Environmental approach in planning** - Economic measures of sustainable development.
- 19. **18MPN302 - Project formulation and implementation**
 - a. **UNIT 1 Introduction to Project Formulation** - Introduction to project management, (Definition, Need / Benefits, Achieve business objective, Role of project manager, , Integrative approach, Process group).
 - b. **UNIT 2 Project Analysis** - Preparation of feasibility reports.
 - c. **UNIT 3 Project Appraisal** - Developing Project Plan (Evaluating and Constructing network, chedule, Criticality, Gantt Charts, Techniques)
- 20. **18MPNE3A - Environmental Design**
 - a. **UNIT – 2 Approach of environmental design as applicable to built environment (part 1)** - Urban Environment - Industrial ecology and symbiosis, Management of air quality and noise,
 - b. **UNIT – 3 Approach of environmental design as applicable to landscape development (part 2)** - Green Spaces, bio-diversity conservation and conflicts.
- 21. **18MPNE3B - Environmental impact assessment**
 - a. **UNIT – 2 Methods of EIA** - Screening and Scoping, Baseline Studies for EIA,
 - b. **UNIT – 3 Assessment of impacts** - Assessment of development projects (including roads, industries, housing, townships etc.).
 - c. **UNIT – 4 Strategic Environmental Assessments** - Policy environmental assessment.
- 22. **18MPNE3C - Environmental legislation, evaluation and practices**
 - a. **UNIT 1 Environmental legislation (part 1)** - Introduction to Law (Indian Constitution, Evolution of Environmental Laws in India).
 - b. **UNIT 2 Environmental Legislation (Part 2)** - Ancient Monuments and Archaeological Sites and Remains Act., Hazardous Waste Management and Handling Rules / Biomedical Rules / Solid Waste, Environment Tribunal Act, Climate change Protocols and Conventions, MOEF

23. **18MPNE3D - Web based applications to urban and regional planning**
 - a. **Role of web based technology in planning** - Introduction to Web Applications, Web Applications Frameworks, Managing Data, Middleware, The User Interface
24. **18MPNE3E - Planning for Tourism**
 - a. **UNIT 1 Introduction to Tourism** - *Introduction, the concept of tourism, New concept of tourism.*
 - b. **UNIT 2 Tourism sector – Impacts** - *Rationale for planning tourism, the tourism planning process, Levels of tourism planning.*
 - c. **UNIT 3 Planning for tourism (part 1)** - *Evolution of tourism planning, Significance of tourism planning.*
 - d. **UNIT 4 Planning for tourism (Part 2)** - *Introduction to sustainable tourism planning, planning for sustainable tourism development, Components of sustainable tourism planning, Stakeholders networking model for sustainable tourism development*
 - e. **UNIT 5 Policies and programmes** - *Introduction, Recommendations of the National Level Tourism Policies and Programs - Various Committees on Tourism*
25. **18MPN401 - Urban governance and institutional management**
 - a. **UNIT 1 Introduction: basic concept & legal provisions** - *Introduction to Urbanization, Introduction to Urban Governance, Constitutional provisions, Legislative provisions,*
 - b. **UNIT 2 Urban and metropolitan planning** - *Urban reform and managing change, Visioning for the city, Resolving conflicts in change management, Leadership and teambuilding,*
 - c. **UNIT 4 Urban issues and risk management** - *Housing strategy for cities, Housing and urban poverty, Real estate regulation and development, Urban land management, Urban risk and disaster management, Managing urban environment,*
 - d. **UNIT 5 Participatory governance and urban development** - *Role of City Managers, Self Development for City Managers*
26. Research writing and article writing to be a part of all studio and theory subjects in the syllabus.

The change in syllabi is 63%

Resolution: 1

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

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

FACULTY OF PHARMACY
KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)
(Established Under Section 3 of UGC Act 1956)
COIMBATORE – 641021

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Minutes of Meeting of Board of Studies 2018 – 19 for B.Pharm Degree Course

Minutes of the meeting of the Board of Studies in Pharmacy held on 08.06.2018 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. Ms. G. Praveena, Dept. of Pharmacognosy, FOP, KAHE, Coimbatore.
5. Ms. K. Gayathri, Dept. of Pharmaceutics, FOP, KAHE, Coimbatore.
6. Mr.V.Shivakumar, Dept. of Pharm. Chemistry, FOP, KAHE, Coimbatore.
7. Dr. R.K.Janakiraman, Deputy Manager, Technology Transfer, Adcock Ingram Medrich, Bangalore - 560099
8. Dr. R. Sambathkumar, Professor & Principal, JKK Natarajah College of Pharmacy, B.Komarapalayam, Namakkal.

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 regulation and syllabus for **B.Pharm** program - III & IV semesters of II year B.Pharm (2018 – 19).

Resolution: 1

Resolved to approve the regulation and syllabus for **B.Pharm** program- III & IV semesters of II year B.Pharm with effect from the Academic year 2018 – 19. (Approved regulation and syllabus as per PCI given in Annexure – I)

Agenda: 2

To consider for the adoption of the curriculum for **Ph.D.** program in Pharmacy (2018 – 19).

Resolution: 2

Resolved to adopt the curriculum for **Ph.D.** program in Pharmacy (2018 – 19).

MODIFICATIONS:

1. More number of references was included.

The overall percentage of content change in the syllabus is 1 %

Ph.D. Syllabus

The overall percentage of content change in the syllabus is 4%

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