



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 112) consist of the minutes of the meeting of the Board of Studies conducted during the year 2015 – 2016

| | |
|------|------------|
| Year | 2015 -2016 |
|------|------------|

REGISTRAR

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



ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

(Established Under Section 3 of UGC Act, 1956)

KARPAGAM ACADEMY OF HIGHER EDUCATION

COIMBATORE – 641021

Members of the meeting of the Board of studies in Astrology held on 18.04.2015 at 10:30 AM.

Members Present:

1. Dr. K.P. Vidyadaran (Chair person)
2. Dr. S.N. Sivanandam
3. Nellai K. Vasanthan
4. Dr. A. Ganesan
5. Dr. V. Jayabal
6. P. Raja Sekaran

The chairperson welcomed the members of the board.

The syllabus for M.Sc 1st year applied Astrology courses is newly framed.

The practical papers are introduced in each semester.

M.Sc applied Astrology each semester 6th paper will be a practical.

M.Sc applied Astrology Semester I:

Instead of Sanskrit Astrologers name we changed Indian astrological concepts by prasana, jaimini, karga,

Pregu. The aspects of planets topics were added. New prediction methods were added that are Thajigam and Jaimini systems.

M.Sc applied Astrology papers as follows:

Semester I:

Subject Code : 101 – Fundamentals of Astrology - I

Subject Code : 102 – Planets in Astrology – I

Subject Code : 103 – Horary Astrological Methods – I

Subject Code : 104 - _Rasi – Bhava – Star Constellations – I

Subject Code : 105 (B) – Fundamentals Vasthu – I

Subject Code : 111 – Predictive methods in Astrology – I (practical)

Subject Code : 112 – Practical - I

Semester II:

Subject Code : 201 – Fundamentals of Astrology - II

Subject Code : 202 – Planets in Astrology – II

Subject Code : 203 – Horary Astrological Methods – II

Subject Code : 204 - _Rasi – Bhava – Star Constellations – II

Subject Code : 205 (B) – Modern Vasthu – II

Subject Code : 211 – Predictive methods in Astrology – II (practical)

Subject Code : 212 – Practical – II

Semester III:

Subject Code : 301 – Modern Astrological Methods

Subject Code : 302 – Muhurtha in Astrology

Subject Code : 303 – Medical Astrology

Subject Code : 304 – Casting Horoscopes

Subject Code : 305 – Dasabukthi predictions

Subject Code : 306 (B) – Ashtavargam

Subject Code : 312 – Practical – III

Semester IV:

Project- Viva Voce

For all the papers content and reference books were added.

Syllabi was changed 10 courses for more 40 % and the % of content change is 45%

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 papers content and reference books were added.

Syllabi was changed 2 courses for more 40 % and the % of content change is 28.6%

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

**DEPARTMENT OF BIOTECHNOLOGY
KARPAGAM ACADEMY OF HIGHER EDUCATION
COIMBATORE
MINUTES OF THE MEETING OF BOARD OF STUDIES
2015 – 2016**

Minutes of the meeting of Board of studies in Biotechnology held on 16-04-2015 at 10:00am in the Department of Biotechnology, FASH at Karpagam Academy of Higher Education.

Members Present:

1. Dr. Rajeshwari Sivaraj
Professor and Head,
Department of Biotechnology,
Karpagam Academy of Higher Education,
Coimbatore 641 021.
2. Dr. Sudha
Associate Professor,
Department of Biotechnology,
Karpagam Academy of Higher Education,
Coimbatore 641 021.
3. Dr. D. Teepica Priya Darsini
Associate Professor,
Department of Biotechnology,
Karpagam Academy of Higher Education,
Coimbatore 641 021.
4. Dr. A. Sangilimuthu
Assistant Professor,
Department of Biotechnology,
Karpagam Academy of Higher Education,
Coimbatore 641 021.
5. Dr. P. Rajiv
Assistant Professor,
Department of Biotechnology,
Karpagam Academy of Higher Education,
Coimbatore 641 021.
6. Dr. K. Murugesan
Professor & Head, Department of Environmental Science Periyar University, Periyar
Palkalai Nagar, Salem - 636011

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 **UG (B.Sc., Biotechnology)** programme for the academic year 2015-2016.

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 **2015-16** (Approved Regulations and Syllabus given in **Annexure-I**).

Agenda: 2

1. To consider and approve the Regulations and Syllabus for **PG (M.Sc., Biotechnology)** programme for the academic year 2015-2016.

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 **2015-16** (Approved Regulations and Syllabus given in **Annexure-II**).

Agenda: 3

1. To consider and approve the Regulations and Syllabus for **M.Phil/Ph.D., Biotechnology** programme for the academic year 2015-2016.

Resolution: 3

1. Resolved to approve the Regulations and Syllabus for **M.Phil/Ph.D., Biotechnology** programme and it comes into effect from **2015-16** (Approved Regulations and Syllabus given in **Annexure-III**).

The Board carefully scrutinized of the draft syllabus/syllabi of the following courses.

1. UG Biotechnology
2. PG Biotechnology

The following changes were made in the existing syllabus.

Annexure – I

UG – Biotechnology

The following corrections and suggestions is included in B.Sc (Biotechnology) syllabus (2015-2016)

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

In regard to the syllabus for **B.Sc., Biotechnology** programme for the academic year 2015-2016 and based on the feedbacks received from the faculty members, panel members have suggested the following suggestions and corrections to include in the syllabus.

The UG programme, B.Sc., Biotechnology consists of 44 courses, out of which twelve are language and other general course. There is a syllabi change in thirty-two courses and hence total change $32/32 \times 100 = 100\%$.

The syllabus changes will convey better thoughtful implementation of the aspect of core biotechnology modules, role for student's progress with improved entrepreneurship ability.

1. 15BTU101 – Unit – 3 (Biochemistry)
 - Unit - 3: Topic on nucleic acid is removed and
 - Unit - 5: Topic on hormones and Vitamins is removed and biosynthesis of nucleic acids may be added.
2. Biochemistry Practicals – I (15BTU111)
 - Exp no's: 4 is removed and 3 is modified.
3. Microbiology practical – II (15BTU211)
 - Experiment of microscopy demonstration is added.
 - Exp. No: 4 is modified.
4. Cells molecular Biology (15BTU302)
 - Unit – V – The topics may be rearranged.
5. Cells Molecular Biology Practical – III (15BTU311)
 - Three experiment is removed and Exp No:4 is modified.
6. Immunology (15BTU402)
 - Contents of units may be rearranged.
7. Genetics & Immunology Practical – IV (15BTU411)
 - Three experiments is removed & other remodified.
8. Recombinant DNA Technology (15BTU501)
 - Some topics in Unit – I is removed and few topics are added.
9. Bioprocess Technology (15BTU502)
 - All the Units Contents are rearranged.
10. Environmental Biotechnology (15BTU504)
 - Some topics to be added (Waste management, Bioenergy, Biofuels)
11. Biofertilizer Technology (15BTU505c)
 - Liquid fertilizer & Biopesticides may be added.
12. rDNA, Bioprocess Technology, food & EVS Practical – V (15BTU511).
 - Six experiment is removed due repetition.
13. Animal Biotechnology (15BTU601)
 - Unit – III – Topic to be rearranged.
14. Plant Biotechnology (15BTU602)
 - Unit – IV- Certain topics modified and included the Biotransformation.
15. Animal & Plant Biotechnology (15BTU611)
 - Basic Practical technique in ATC is included.

Annexure – II

M.Sc (Biotechnology)

The following corrections and suggestions is included in M.Sc (Biotechnology) syllabus (2015-2016)

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 2015-2016 (III, IV semesters) and for the academic year 2015-2016, panel members have suggested the following suggestions and corrections to include in the curriculum and syllabus.

The PG programme, M.Sc., Biotechnology consists of 22 courses. There is a syllabus change in twelve courses and hence total change $12/22 \times 100 = 54.55\%$.

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

1. Biochemistry (15BTP101)
 - Unit – IV – peptide & protein topic is removed due to repetition.
2. Microbiology (15BTP102)
 - Unit – V is to be rearranged.
3. Bioinstrumentation & Biostatistics (15BTP104)
 - Unit – III PCR methods to included.
4. rDNA Technology (15BTP201)
 - Unit – II topic on cloning vectors to be included & topic on types of plasmids to rearranged.
5. Fermentation Technology (15BTP202)
 - Unit – III fluidized bed reactor
 - Unit – V Liquid – extraction
6. Environmental Biotechnology (15BTP203)
 - Unit – V- metal & phytoremediation to be removed and the topic phytoremediation of metals & pollutants to be added.
7. Bioenergy Technology (15BTP204c)
 - Topic single cell microbial oil to added in Unit – V (microbial fuel cells)
8. Livestock management (15BTP204E)
 - Unit – I certain topic were modified types of form animal management is included.
9. Fermentation technology & EVBT Practical - IV
 - Experiment on dialysis & purification to be added.
10. Animal Biotechnology & Immunology practical (16BTU312)
 - MTT assay experiment is added.
11. Research methodology (15BTP401)
 - Unit – III Topic on citation index & its calculation to be included.
12. Plant Biotech practical V (15BTP311)
 - Preparation of Axenic seedling to repeated

Textbook, Reference may be updated with recent editions.

Annexure – II
M.Phil and Ph.D (Biotechnology)

In regard to the syllabus for **M.Phil/Ph.D., Biotechnology** programme, **no corrections** have been suggested in the syllabus and also suggested to follow the previous year (2015-16) curriculum and syllabus of **M.Phil/Ph.D., Biotechnology** programme for the academic year 2015-2016.

Total number of courses present during the year 2014-15 =11

Total number of courses present during the year 2015-16 =6

Percentage change in the syllabi = 45.45%

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 Board of Studies 2015-16

Minutes of the meeting of the Board of Studies in **Chemistry** held on **17-04-2015** at **10.00 am**.

Members Present

- | | |
|---|-------------|
| 1. Dr.S.Ravi, Professor & Head, Department of Chemistry, Karpagam Academy of Higher Education, Coimbatore-641021 | Chairperson |
| 2. Dr.K.J.Rajendra Prasad, Professor & Head, Department of Chemistry, Bharathiar University, Coimbatore 641 046 | Member |
| 3. Dr.T.Santhi, Associate Professor, Department of Chemistry, Karpagam Academy of Higher Education, Coimbatore-641021 | Member |
| 4. Dr.A.Thangamani, Assistant Professor, Department of Chemistry, Karpagam Academy of Higher Education, Coimbatore-641021 | Member |
| 5. Mrs. S.Velrani, Assistant Professor, Department of Chemistry, Karpagam Academy of Higher Education, Coimbatore-641021 | Member |
| 6. Dr.A.V. Saranya Lecturer, Pollachi Institute of Technology Pollachi, Coimbatore | Alumini |

The Chairperson welcomed the members of the Board. The Board carefully scrutinized the draft syllabus/syllabi of the following courses.

1. B.Sc., Chemistry
2. M.Sc., Chemistry
3. Allied Chemistry papers
4. Open elective papers for other discipline students

and approved the same.

The following changes are made in the existing syllabus.

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 2015-16 (Approved Regulations and Syllabus given in Annexure-I).

Annexure I

In all the courses approximately 25 **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.

| S.No | Code | Subject Name | Remarks |
|------|-----------|---------------------------------------|-----------------------------|
| 1 | 14CHU101 | General Chemistry I | Unit IV And V Were Changed |
| 2 | 14VAE101 | Value Education And Healthy Practices | Unit IV And V Were Changed |
| 3 | 14CHU201 | General Chemistry- II | Unit IV And V Were Changed |
| 4 | 14CHU301 | General Chemistry- III | Unit IV And V Were Changed |
| 5 | 14CHU302 | Pharmaceutical Chemistry | Unit IV And V Were Changed |
| 6 | 14CHU401 | General Chemistry | Unit IV And V Were Changed |
| 7 | 14CHU402 | Physical Chemistry | Unit IV And V Were Changed |
| 8 | 14CHU501 | Organic Chemistry | Unit I And III Were Changed |
| 9 | 14CHU502 | Inorganic Chemistry | Unit IV Changed |
| 10 | 14CHU503 | Electrochemistry | Unit V Changed |
| 11 | 14CHU504 | Recent Trends In Chemistry | Unit IV And V Were Changed |
| 12 | 14CHU505A | Green Chemistry | Unit II And IV Changed |
| 13 | 14CHU505B | Environmental Chemistry | Unit I And V Changed |

| | | | |
|----|-----------|--|-----------------------------|
| 14 | 14CHU505C | Bioinorganic Chemistry | Unit III And V Changed |
| 15 | 14CHU511 | Chemistry Practical-V(A)Gravimetric Analysis | Three New Practical's Added |
| 16 | 14CHU512 | Chemistry Practical-V(B)-Physical Chemistry | Three Practical's Changed |
| 17 | 14CHU601 | Chemistry Of Natural Products | Unit IV And V Were Changed |
| 18 | 14CHU602 | Physical Methods & Chemical Structures | Unit II And IV Were Changed |
| 19 | 14CHU603 | Agro Industrial Chemistry | Unit IV And V Changed |
| 20 | 14CHU605A | Radiation Chemistry | Unit I And V Changed |
| 21 | 14CHU605B | Surface Chemistry | Unit V Changed |
| 22 | 14CHU605C | Chemistry Of Materials | Unit IV And V Changed |

- The compulsory Elective “Allied Physics (Paper I & II; 15CHU102, 15CHU112, 15CHU202 and 15CHU212) course (Both theory and practical)” has been placed in the first year. In the second year, for the allied elective three choices are provided.
 - Allied Mathematics (Paper I & II; 15CHU303A, 15CHU403A)
 - Allied Statistics(Paper I & II; 15CHU303B, 15CHU403B)
 - Allied Pharmaceutical Chemistry(Paper I & II; 15CHU303C and 15CHU403C)
- The following allied elective courses has been prepared and discussed in addition to the regular Allied chemistry (Paper I & II;) and the Allied Chemistry Practical (I & II).
 - Allied Chemistry for Mathematics (Paper I & II)
 - Allied pharmaceutical chemistry (Paper I & II).
- The courses under the CBCS, Elective I (Green Chemistry , 15CHU505A ; Environmental Chemistry , 15CHU505B and Bioinorganic Chemistry , 15CHU505C) & Elective II (Radiation Chemistry , 15CHU603A ; Dye Chemistry , 15CHU603B and Chemistry of Materials, 15CHU603C) are placed in the fifth and sixth semester respectively (each 3 No's) were discussed.
- The open elective paper (Chemistry of consumer products, 15OEU501) was added in the semester IV for the students of other disciplines.
- Two self study papers(Leather chemistry-15CHU506) each one for the fifth and sixth semester (Forensic chemistry-15CHU604) has been prepared and discussed.
- A core paper Surface Chemistry (15CHU302) is added in the third semester and Nano Chemistry (15CHU504) has been added in the fifth semester.
- In General Chemistry I (15CHU101), the basic principles of qualitative analysis of cations and anions in a mixture was added instead of “Comparision of physical properties of the rare gases in the periodic table, oxides and oxyacids of halogens and inter halogen compounds.”

8. Alkenes from general chemistry II and alkynes from General Chemistry I have been interchanged.
9. In General Chemistry I, The unit IV and V were merged together and instead a new unit on periodic table and periodic properties has been included.
10. In the fourth Semester in the paper Physical Chemistry (Chemical Kinetics-15CHU402) paper Unit IV has been replaced by error analysis.
11. In the sixth semester, in the course Physical methods and Chemical structures(15CHU602) Unit I has been replaced by Chromatographic techniques.
12. All the other course papers were fine tuned based on the inputs from the teachers who has handled the paper.

The marks, Instruction hours and credits were redistributed as per the requirements.

The following courses are new courses

1. Allied Statistics(Paper I & II; 15CHU303B, 15CHU403B)
2. Allied Pharmaceutical Chemistry(Paper I & II; 15CHU303C and 15CHU403C)
3. Two self study papers, Leather chemistry-15CHU506 & Forensic chemistry-15CHU604
4. Surface Chemistry (15CHU302)
5. Nano Chemistry (15CHU504)

Agenda: 2

To consider adoption of the curriculum of M.Sc Programme for Chemistry from the academic year 2015-16.

Resolution: 2

Resolved to approve the adoption of the curriculum of M.Sc Programme for Chemistry from the academic year 2015-16 (Approved Regulations and Syllabus given in Annexure-II).

1. The courses under the CBCS, Elective I (Advanced Organic Chemistry , Analytical Chemistry , Organometallic Chemistry , Advanced Coordination Chemistry , Organic Chemical Technology - 15CHP204A, 15CHP204B, 15CHP204C, 15CHP204D and 15CHP204E respectively)& Elective II (Polymer Chemistry , Textile chemistry, Industrial Chemistry , Applied Chemistry , Printing Chemistry - 15CHP305A , 15CHP305B, 15CHP305C, 15CHP305D and 15CHP305E respectively) placed in the Second and Third semester respectively(each 5 No's) were discussed.
2. The open elective paper, Chromatographic Techniques (15OEP201) was added in the semester II for the students of other Disciplines
3. The practical working hours has been reduced from 6hrs to 4 hrs (the students has to carryout the calculations at home).

4. All the other course papers were fine tuned based on the inputs from the teachers who has handled the paper.
5. The marks, Instruction hours and credits were redistributed as per the requirements
6. Medicinal and green chemistry paper shifted from IIInd semester to Ist Semester.

The following courses are new courses

1. Advanced Organic Chemistry-15CHP204A
2. Advanced Coordination Chemistry - 15CHP204D
3. Organic Chemical Technology -15CHP204E
4. Applied Chemistry-15CHP305D ,
5. Printing Chemistry-15CHP305E
6. Chromatographic Techniques 15OEP201

Agenda: 3

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

Resolution: 3

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

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 50 courses out of which 13 are languages and other non core courses. There is a syllabus change of 29 %

PG Programme

The PG programme for M.Sc Chemistry consists of 30 courses. There is a syllabus change in 11 courses and hence total change = $11/30 * 100 = 36.66\%$

Ph.D programme

Total number of courses present during the year 2014-15 =11

Total number of courses present during the year 2015-16 =8

Percentage change in the syllabi = 27.3%

KARPAGAM ACADEMY OF HIGHER EDUCATION

Department of Commerce

Minutes of the Meeting of Board of Studies 2015 - 2016

Minutes of the meeting of the Board of Studies in Commerce held on 16.04.2015 at 10.00 a.m.

Members Present

1. Dr.K.Kumuthadevi
HOD, Department of Commerce
Karpagam University
Coimbatore
2. Mrs.N.Kothainayaki
Department of Commerce
Karpagam University
Coimbatore
3. Dr.K.Jothi
Department of Commerce
Karpagam University
Coimbatore
4. Dr.R.Velmurugan
Department of Commerce
Karpagam University
Coimbatore
5. Dr.R. Vinayagamoorthy
Professor, Department of Commerce
Periyar University
Salem

The chairperson welcomed the members of the Board. The board carefully scrutinized the draft syllabus / Syllabi of the following courses.

1. B.Com.
2. B.Com. (CA)
3. B.Com. (PA)
4. M.Com.
5. M.Com. (CA)
6. M.Phil & Ph. D
7. Allied subjects to Maths Department
 - a. Introduction to Accounting
 - b. Indian Banking
 - c. Cost and Management Accounting
 - d. Human Resource Management

8. Allied Subjects to Engineering
 - a. Principles of Management and Entrepreneurship Development and approved the same

The following changes are made in the existing syllabus

Annexure I

B.Com.

Semester I

- Principles of Accountancy course the following chapters have been added trial Balance in the First unit,
- Petty cash book was added in the Second unit,
- Retiring Bills under Rebate - Dishonour and Renewal of Bills in the Third unit
- Average Due Date and its Calculation- Preparation of Account Current in the Fourth unit.
- Practical – MS Office course was removed and Business Organisation and Office Management new course was introduced.
- Soft Skill Development I new Course was introduced

Semester II

- Financial Accounting course Preparation of Royalty Accounts was added in the Second unit,
- Departmental Accounts - Meaning, Need, Features - Distinction between Departmental and Branches - Types and Techniques of Departmental Accounting was added in the Fourth unit
- Accounting for Partnership was added in the Fifth unit.
- Indian Banking Course was removed and Banking Law and Practice was added in Unit V
- Soft Skill Development II new Course was introduced

Semester III

- Higher Financial Accounting course was renamed as Advanced Financial Accounting,
- Commercial law course renamed as Business Law
- Business Organisation and office management course was removed and Principles of Management course was introduced.
- Business Ethics new course was introduced.
- TALLY course was removed from fourth semester and added in the third semester.

Semester IV

- Entrepreneurship and project management and accounting package Tally were removed, and Financial management (New course) Business communication (open elective) Retail management (Elective), Indian Economy(Elective), and Advertising and sales promotion (Elective) were Introduced.

Semester V

- Taxation I course was renamed as Income tax law and practice-I.
- Entrepreneurship and project management course was removed from fourth semester and added in the fifth semester and renamed as Entrepreneurial Development.
- Elective I papers viz.,Financial management, personnelmanagement and industrial relations and Retailmanagement were removed and Investment management , business Environmanet and industrial Relations were included.

Semester VI

- Taxation II course was renamed as Income tax law and practice-II.
- In fourth unit Chapters under Collection and recovery of tax were removed and assessment of Companies and cooperative societies was included.
- In fifth unit Chapters under computation of wealth tax was removed and Collection and recovery of tax was included.
- Elective II courses viz., Investment management, Fundamentals of Insurance and Brand Management were Removed and Indirect Taxation, Research methodology and Export Management were included

The UG programme of B.Com. consists of 44 courses out of which 8 are languages and value added courses. There is a syllabus change in 8 courses and hence total change = $36 / 36 * 100 = 100\%$

Annexure II
B.Com. (CA)

The following changes made as given below

| S. NO | NAME OF THE COURSE | UNITS REPLACED |
|---------------------|--|----------------|
| I SEMESTER | | |
| 1. | Principles of Accountancy | Unit III & V |
| 2. | Value Education | Unit I & V |
| II SEMESTER | | |
| 3. | Financial Accounting | Unit IV & V |
| 4. | Environmental Studies | Unit IV & V |
| III SEMESTER | | |
| 5. | Corporate Accounting | Unit IV & V |
| 6. | Object Oriented Programming With C++ | Unit IV & V |
| 7. | Business Economics | Unit IV & V |
| IV SEMESTER | | |
| 8. | Cost Accounting | Unit IV & V |
| 9. | Financial Management | Unit IV & V |
| V SEMESTER | | |
| 10. | Management Accounting | Unit IV & V |
| 11. | Income tax law and Practices | Unit IV & V |
| 12. | Software Development With Visual Basic | Unit IV & V |
| 13. | Investment Management | Unit III& V |
| 14. | Auditing (self study paper) | Unit IV & V |
| 15. | Banking Practices(self study paper) | Unit IV & V |
| VI SEMESTER | | |
| 16. | Internet and Web Design | Unit IV & V |
| 17. | Indirect taxes | Unit IV & V |

- ❖ In addition to this the change was made in Practical II – Accounting Package-Tally to introduce Preparation of bank reconciliation.
- ❖ Introduced “Value Education” in the first semester.
- ❖ Introduced “Soft Skill Development -I ” in the First semester.
- ❖ Introduced “principles of marketing ” in the Third semester.
- ❖ Introduced “Soft Skill Development -II ” in the Third semester.

- ❖ Introduced “Business Environment” in the Third semester as allied course.
- ❖ Introduced “company law ” in the Third semester as allied course.
- ❖ Introduced “Indian economy ” in the fourth semester as allied course.
- ❖ Introduced “advertising and sales promotion ” in the fourth semester as allied course.
- ❖ Introduced “Business Ethics ” in the fourth semester as allied course.
- ❖ Introduced “commerce Practical ” in the fifth semester as allied course.
- ❖ Introduced “Consumer Behaviour ” in the fifth semester as allied course.
- ❖ Introduced “Retail Management ” in the fifth semester as allied course.
- ❖ Introduced “E Commerce and Information Technology” in the Sixth semester.
- ❖ All the courses were focused towards employment, entrepreneurship and skill development.
- ❖ Overall changes made approximately 80%.

Annexure III

Bachelor of Commerce (Professional Accounting)

The UG programme of B.Com. PA consists of 39 courses out of which 6 are languages. There is a syllabus change in 33 courses and hence total change 42.10%

Semester I

- ❖ Value Education and Healthy Practice can be removed and Foundation Course – A Value Education new course can be introduced.
- ❖ Activity I course can be removed and Soft Skill Development I a new course can be introduced

Semester II

- ❖ Indian Economics can be removed.
- ❖ M. S. Office - Practical course can be shifted from third semester to second semester.
- ❖ Activity II course can be removed and Soft Skill Development I a new course can be introduced

Semester III

- ❖ Accounting Package – Tally can be shifted from IV semester to current semester.
- ❖ Managerial economics a new allied elective course can be introduced in this current semester.
- ❖ Activity III course can be removed and Soft Skill Development II a new course can be introduced
- ❖ Business Ethics and Communication course can be shifted to fourth semester.

- ❖ Principles of Management a new allied elective course can be introduced
- ❖ Management Information System a new allied elective course can be introduced.

Semester IV

- ❖ Activity IV course can be removed and Soft Skill Development II a new course can be introduced
- ❖ Marketing Management a new allied course can be introduced.

Semester V

- ❖ Operation Research course can be removed and Research Methodology course can be shifted from IV semester to V semester.
- ❖ Industrial Law a new course can be introduced
- ❖ Principles of Auditing core course can be shifted from III semester to V semester as open elective course.

Semester VI

- ❖ Service Tax and VAT course can be introduced as New Course in the sixth semester.

Annexure IV

M.Com. and M.Com. (CA)

Changes were made in all the MCom courses.

The following new courses were added

1. Modern management practices course was introduced and Labour legislation course was removed
2. There was a 100% change in Consumer behaviour course. So it is considered as new course
3. Strategic management, Financial services, Industrial relation and SPSS Practical's were the four new courses introduced.
4. Entrepreneurship course was removed and Entrepreneurship and small business development course was introduced.

The PG programme for M.Com. and M.Com. CA consists of 21 courses. There is a syllabus change in 21 courses and hence total change = $21/21 * 100 = 100\%$

Annexure V

M.Phil and Ph.D programme

Annexure

New Courses Introduced – 7

The following new courses have been added,

Entrepreneurial Development, Accounting and Taxation, Insurance and Risk Management, Banking and Financial Services, Enterprise Resource Planning, Advertising and Salesmanship, Service Marketing

Percentage change in the syllabi = 58%

Signature of the Members

Minutes of the Meeting of Board of Studies

Minutes of the meeting of the Board of Studies in COMPUTER APPLICATIONS field on 17.04.2015 at 10.00 am.

Members Present:

1. D.Sathya Srinivas
2. Dr.X.Agnies Kalarani
3. Dr.K.Thilagam
4. Dr.R.Gunasundari
5. Dr.B.Mukuthan
6. Dr.E.Goerge Dharma Prakash(External Expert)
Professor in Computer Science and Engineering,
Bharathidasan University,
Khajamalai Campus,
Trichy-23.
Mobile:9443191790.
Email-ID:georgeprakashraj@yahoo.com

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

Agenda 1:

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

Resolution 1:

1. Resolved to approve the regulations and syllabus for the following UG Programme and it comes into effect from 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.

- i. MCA

BCA Degree Programme:

The following changes have been made:

Semester-I:

- ❖ Fundamentals of Computer has been included in Programming in C course and the course name has been changed to Fundamentals of Computer and Programming in C.
- ❖ Soft skill development paper is included in Semester I to IV.
- ❖ Digital Electronics and Computer System Architecture may be renamed as Digital Electronics.

Semester-II:

- ❖ Computer Graphics course has been moved to semester VI and the title has been changed as “Computer Graphics and Animation”.
- ❖ Animation and Design lab has been removed.
- ❖ Following courses has been included as Allied-2 Electives:
 - PC Hardware and Troubleshooting
 - PC Hardware and Troubleshooting Lab
 - Statistical Methods
 - Statistical Methods Lab
 - Basic Accounting
 - Tally Lab

Semester-III:

- ❖ Discrete Mathematics and Numerical methods” course have been replaced by “Numerical Methods”.
- ❖ Data Structures Lab using C++ has been replaced by Core-Elective-I.

- ❖ Following courses has been introduced as Core –Elective_I
 - Open Source Technologies
 - Ethical Hacking
 - MongoDB

Semester-IV:

- ❖ Operations Research course has been moved to Allied-3.
- ❖ Following courses has been included as Allied-3 Electives:
 - Electronic Communication Systems
 - Operations Research
 - Banking Practices
- ❖ E-Commerce course has been included as Open Elective.
- ❖ OS Lab using Linux has been replaced by Soft Skill Development-2 course.
- ❖ The content of the course Programming in VB.NET can be revised.

Semester-V:

- ❖ Open source technologies course may be removed.
- ❖ “Script Language” course theory and Lab has been shifted to Semester VI.
- ❖ “Mobile Commerce” course in core Elective-II has been replaced by “Cloud Computing”.
- ❖ “Enterprise Information Technologies” course has been introduced.

Semester-VI:

- ❖ “Software Engineering” course has been moved to Semester-V and the title and content has been changed to “Software Engineering and Project Management”.
- ❖ “Data Communications and Network” course has been moved to Semester-V.
- ❖ Following courses has been introduced as Core Elective-III.
 - Object Oriented Analysis and Design
 - Software Testing
 - Multimedia Systems

The following courses are introduced as new courses:

Additional Courses:

- Advanced Java Programming
- Advanced Networking

Core Elective I

- Open source technologies
- Ethical hacking
- Mango DB

Core Elective II

- Data Mining and Warehousing
- Big Data
- Cloud computing

Core Elective 3

- Object oriented Analysis and Design
- Software Testing
- Multimedia Systems

Allied Courses 1

- Digital electronics
- Digital electronics lab

Allied Courses 2

- PC Hardware and trouble Shooting
- PC Hardware and trouble Shooting lab
- Statistical Methods
- Statistical Methods Lab
- Basic accounting
- Tally Lab

Allied Courses 3

- Electronic communication systems
- Operation Research
- Banking Practices

Open Elective

- E-Commerce

Distributed Database Management and Advanced Operating System were introduced for Honors Programme

The UG programme, BCA consists of 55 courses in which 21 are new courses and there is a syllabi changes in 2 courses. The total change is 36 %

MCA Degree Programme:

The following changes have been made:

Semester-I:

No Change.

Semester-II:

No Change.

Semester-III:

- ❖ Two additional elective domains,
 - Software Engineering and
 - Wireless Computing has been introduced.
- ❖ “Fundamentals of Data Structures” course is replaced by core Elective-I.

❖ Following courses has been introduced as Core Elective-I

- Agent Technologies
- Client Server Technology
- Introduction to Software Architecture
- Multimedia using Flash
- Mobile Operating Systems

Semester-IV:

❖ “Introduction to Algorithms” course has been replaced by “Data Structures and Algorithms”.

❖ “Web Designing” course has been introduced as Open Elective.

❖ “Ruby Programming” course theory and lab has been moved to Semester-V.

❖ Following courses has been introduced as core Elective-II

- Software Testing
- Wireless Application Protocol
- Software Testing Lab
- WAP Lab.

❖ Following courses has been introduced as core Elective-III

- Ad-Hoc and Sensor Networks
- Object Oriented Analysis and Design with UML

Semester-V:

❖ “Android Lab” is renamed as Mobile Computing Lab.

❖ Router Simulation Lab has been renamed as “Network Simulator Lab”.

❖ “XML” course theory and lab has been moved to Semester-IV

❖ “Web Services” theory and lab has been moved to Semester-IV.

❖ Following courses has been introduced as Core Elective-IV

- Software Project Management
- Advanced Wireless Communication Systems
- Software Development Lab using Moodle
- Communication Lab

❖ Following courses has been introduced as Core Elective-V

- Big Data Analytics
- Software Metrics

- Semantic Web
- ATM Network

➤ Two hours has been allotted for Seminar Presentation in all five Semesters.

The following course are introduced as new course:

Open Elective

- Web designing

The PG programme, MCA consists of 69 courses in which 14 are new courses and there is a syllabi changes in 7 courses. The total change is 31 %

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 18.4.2015 at 10.00 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.M.Hemalatha,

Member(Internal)

Associate Professor,
Department of Computer Science,
Karpagam Academy of Higher Education
Coimbatore- 641021.

3. Dr.T.Sumadhi,

Member(Internal)

Associate Professor,
Department of Computer Science,
Karpagam Academy of Higher Education
Coimbatore- 641021.

4. Dr.S.Manju Priya,

Member(Internal)

Assistant Professor,
Department of Computer Science,
Karpagam Academy of Higher Education
Coimbatore- 641021.

5. K.Banuroopa

Member(Internal)

Assistant Professor,
Department of Computer Science,
Karpagam Academy of Higher Education

Coimbatore- 641021.

6. Dr.V.Palanisamy

Member (External)

Prof. & Head,
Department of Computer Science,
Alagappa University
Karaikudi

7. Shoban Babu

Alumni

Software Engineer,
CTS Technology,
Keeranatham, Coimbatore
Mob: 8608996525

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 Computer Science UG programme.

Resolution: 1

1. Resolved to approve the Regulations and Syllabus for following B.Sc Computer Science UG programme and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure-I).

Agenda: 2

1. To consider and approve the Regulations and Syllabus for M.Sc Computer Science PG programme.

Resolution: 2

1. Resolved to approve the Regulations and Syllabus for M.Sc (CS) PG programme and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure-II).

Agenda: 3

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

Resolution: 3

Resolved to approve the Regulations and Syllabus for M.Phil and Ph.D programme in Computer science

and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure).

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

BSc [Computer Science]

The following changes have been made:

- ❖ Fundamental of computers has been included in C programming course and course name has been changed to Computer Fundamentals and Programming in C.
- ❖ Digital Electronics and Computer System Architecture is replaced by Digital Electronics course in semester I.
- ❖ Value Education and Healthy Practices is replaced by Foundation Course-A (Value Education) course in semester I.
- 1. Soft skill development course is included in semester I to IV.
- ❖ Environmental Studies course is replaced by Foundation Course-B (Environmental Studies) in semester II.
- ❖ Data Structures is replaced by Data Structures and Algorithms course in semester III.

The following **new courses** have been introduced:

Allied-I Electives:

1. Embedded System
2. PC - Hardware & Trouble shooting
3. Microprocessor and its Applications

Allied-I Electives Lab

1. Embedded System Lab
2. PC - Hardware & Trouble shooting Lab
3. Microprocessor Lab

Allied-II Electives:

1. Operation Research
2. Probability & Statistics
3. Discrete Mathematics

Core Electives I:

1. Computer Design
2. System Software
3. Artificial Intelligence

Core Electives II:

1. Data mining and Warehousing
2. Big Data
3. Cloud Computing

Core Electives III:

1. Open Source Software
2. Cyber Security
3. Client Server Technology

Open Elective:

1. E-Learning

Additional courses:

1. Advanced Java Programming
2. Advanced Networking

❖ Mobile Communications and soft computing courses were introduced for Honors programme.

The UG programme B. Sc., Computer Science consists of 40 courses in which 18 are **new courses** and in 5 courses changes have been made. The overall change is 45 %.

M.Sc(Computer Science)

The following changes have been made:

- In Cloud Computing course, a new topic “Open Source Product” is included in Unit V.
- Entire content of the Cyber Security course has been changed.
- ASP.NET is included in Web Technology course.
- Following topics are included in Cryptography and Network Security course.
 - ✓ Modular arithmetic and Euclidian algorithm in Unit II
 - ✓ Discrete logarithm in Unit III
- 2 hours has been allotted for seminar presentation in all three semesters.

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

1. Grid computing
2. Geographical Information System
3. Distributed Database Management System
4. Wireless Application Protocol
5. WAN Technologies

➤ Multimedia and its Applications have been added as **new course** for Open Elective.

The PG programme, M.Sc., Computer Science consists of 21 courses in which 5 are new courses and there is a syllabi change in 7 courses. The total change is 33 %.

M.Phil / Ph.D (Computer Science)

➤ Cloud Computing course is added as a new core elective.

The M.Phil / Ph.D (Computer Science) programme consists of 12 courses during 2015-2015.

Now three special papers have been removed. The number of courses in the present year will be 9. The total change is 25 %.

Remarks:

Substantial changes in the content have been brought in **BSc [Computer Science] 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 Board of Studies 2015

Minutes of the meeting of the Board of Studies in English held on 17-04-2015 at 11.30 am/pm in the Department of English at Karpagam Academy of Higher Education.

Members Present:

1. Dr. Unnikrishnan
2. Mrs. Jesbir.R
3. Ms. S. Nithya Devi
4. Dr. Harini Jayaraman

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

Agenda: 1

1. To consider and approve the Regulation and Syllabus for Part II English

Resolution: 1

1. Resolved to approve the Regulation and Syllabus for Part II English, and it comes to effect from 2015-16 (Approved Regulations and Syllabus given in the Annexure-I).

Agenda: 2

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

Resolution: 2

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

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

For the BA English 2015, 66.66 % of change was made in the syllabus

For the M.Phil and Ph.D Programme 14% of change was made in the syllabus.

**KARPAGAM ACADEMY OF HIGHER EDUCATION
COIMBATORE**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION SYSTEMS

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

Members Present:

1. Dr. R. Saira Banu

Chair Person

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

2. Dr. R. Prema

Member (Internal)

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

3. Mr. M. Selvam

Member (Internal)

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

4. Mr. A. Sanjay Gandhi

Member (Internal)

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

5. Dr K. Vasudevan

Member (External)

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

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

Agenda : 1

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

Resolution: 1

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

Agenda: 2

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

Resolution: 2

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

Agenda: 3

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

Resolution: 3

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

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

B.Sc Electronics and Communication Systems

The following changes have been made:

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

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

The following new courses have been introduced.

Allied –I Electives:

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

Allied –I Electives Lab:

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

Allied –II Electives:

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

Core Electives I:

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

Core Electives II:

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

Open Elective :

1.Basic Electronics

Additional Courses

1.Electronic Instrumentation

2.Programmable Logic and Distributed Control Systems

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

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

M.Sc Electronics and Communication Systems

The following changes have been made

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

The following new courses have been introduced

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

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

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

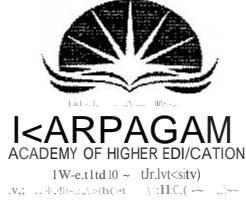
M.Phil /Ph.D (Electronics)

- Wireless Communication Systems is added as a new course.

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

Remarks:

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



KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

(Established Under Section 3 of UGC Act, 1956)

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Faculty of Arts Science and Humanities

Department of Hindi

Minutes of the Board of Studies Meeting

15.04.2015

The meeting of Board of Studies in Hindi Language was held on 15.04.2015 at 10.00 am in the Department of Hindi at Karpagam Academy of Higher Education.

Member Present:

1. Dr.K.P.Padmavathy Amma,
Professor,
Department of Hindi,
Karpagam Academy of Higher Education,
Coimbatore - 641021.
2. Dr. Sasipraba Jain
Professor,
Department of Hindi,
Avinashilingam University for Women,
Coimbatore - 641021.

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

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

Agenda: 1

To consider and approve the Regulations and Syllabus of UG Part - I Hindi, Paper I & 2 for the Academic year 2015-2016.

Resolution: 1

Resolved to approve the Regulations and Syllabus of UG Part - I Hindi, Paper I & 2 for the Academic year 2015-2016. There are no Changes in the existing Syllabus for 2015-2016.

Agenda: 2

To consider and approve the Regulations and Syllabus for the following Research programme for the Academic year 2015-2016.

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

Resolution: 2

Resolved to approve the Regulations and Syllabus for i) M.Phil and ii) Ph.D Research programmes. There are no Changes in the existing Syllabus for 2015-2016.

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

Karpagam Academy of Higher of Higher Education
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(Established Under Section 3 of UGC Act 1956)
Coimbatore – 641 021

Minutes of the meeting of the Board of Studies in Computer Science, held on 17.4.2015 at 10.00 in the Department of Computer Science at Karpagam Academy of Higher Education.

Members Present:

1. Mr. K. Appathurai Chairperson
Associate Professor and Head,
Dept. of Information Technology
Karpagam Academy of Higher Education
Coimbatore – 641 021.
2. Dr. M. Anand Kumar Member (Internal)
Associate Professor
Dept. of Information Technology
Karpagam Academy of Higher Education
Coimbatore – 641 021.
3. Ms. D. Shanmuga Priyaa Member (Internal)
Assistant Professor
Dept. of Information Technology
Karpagam Academy of Higher Education
Coimbatore – 641 021.
4. Dr. E. Ramaraj Member (External)
Professor and Head
Department of Computer Science
Alagappa University, Karaikudi, Tamil Nadu

5. Mr. K.Krishnakumar
Systems Executive,
CTS, Saravanampatti, Coimbatore
Email: krishnakumar.kumar32@gmail.com , Cell : 9442900905
- Member (External Industry)

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

Agenda: 1

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

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

Resolution: 1

1. Resolved to approve the Regulations and Syllabus for following UG programme and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure-I)
- i) B.Sc (IT)
 - ii) B.Sc (CT)

B.Sc Information Technology

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

- The topic Construct algorithms has been introduced and C programming has been changed to problem solving using C.
- CBCS has been introduced for allied and core courses.
- Soft skill development course in introduced from semester I to semester IV.
- Value education and Healthy Practices has been replaced by Foundation Course – A - Value Education course.
- Discrete Mathematics and numerical methods have been replaced by Numerical Methods.
- Digital Electronics and Computer System has been replaced by Digital Electronics.
- Activity I, II, III, IV has been removed from Semester I, II, III, IV respectively.
- Operating System and Software Engineering has been moved from semester VI to semester V and Multimedia and its applications and Multimedia lab has been moved from semester V to semester VI.
- Artificial Intelligence and Expert Systems have been introduced in semester VI.

The following new courses have been introduced

- Allied -I
 - Embedded systems
 - PC Hardware and troubleshooting
 - Microprocessor and its Applications
- Embedded system lab
- PC Hardware and Troubleshooting lab
- Microprocessor and its Applications lab

- Allied -II
 - Operations Research
 - Probability and Statistics
 - Discrete Mathematics
- Core Elective III.
 - Parallel Programming.
 - Information Security.
 - Agile Software development.
- Additional Course.
 - TCP/IP Protocol suite and J2EE
- Open Elective.
 - Intranet Technology
- Knowledge Management and Information Technology, Simulation and Modeling Courses were introduced for Honors Programme.

The UG programme B.Sc IT consists of 51 courses in which 12 are new courses and the changes has been made in all the remaining 39 courses. The overall change is approximately 32% .

B.Sc Computer Technology

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

- Construct algorithms has been introduced and C programming has been changed to problem solving using C.
- CBCS has been introduced for Allied and core courses
- Digital Electronics and Computer System has been replaced by Digital Electronics with change of content in the syllabus.
- Value education and Healthy Practices has been replaced by Foundation Course – A - Value Education course.
- C Programming Lab course has been changed to problem solving using C lab.
- In digital electronic lab, parity generator and Checker, Digital to Analog Converter, 4-bit binary adder has to be removed from syllabus.
- Environmental studies have been replaced by Foundation Course – A - Value Education course.
- The list of programs in Embedded systems lab has been restructured.
- Soft Skill development course is introduced from semester I to semester IV.
- RDBMS Lab has been replaced by RDBMS and Data Structure Lab.
- VB.Net Programming using WPF is replaced by .Net programming
- Java Programming is replaced by Advanced Java programming.

- Advanced Computer Network is removed from semester V and Internetworking with TCP/IP, Object Oriented Software Engineering and Animation Techniques courses has been introduced
- OS and Network Lab course has been introduced in semester VI.
- In Web Technology course tables, DHTML, Javascript, objects has replaced by more on HTML, cascading style sheet, Extensive markup language, ASP, javascript and vbscript.
- Discrete Mathematics and Numerical methods have been replaced by Numerical Methods.
- Data Structure course has been replaced by Algorithm analysis and Data Structures.
- Internet Protocol version 6(IPV6) and Information Security has been introduced as Additional course.
- Wireless and Mobile Computing from core Elective I is replaced as cloud computing.
- Data Mining and Warehousing ,Big Data Analytics from core Elective II were replaced as Ethical Hacking and Virtual Reality & Virtual Environment.

The following new courses have been introduced

- Allied-I
 - Embedded Systems -Embedded Systems Lab
 - PC Hardware and Trouble Shooting -PC Hardware and Trouble Shooting Lab
 - Microprocessor and its Applications -Microprocessor Electives Lab
- Allied-II
 - Statistical Methods
 - Discrete Mathematics
- Core Elective I
 - Cloud Computing
 - Mobile Application Development
 - Open Source Tools and Techniques
- Core Elective II.
 - Ethical Hacking
 - Virtual Reality and Virtual Environment
 - Animation Techniques
- Core Elective III.
 - Satellite Communications
 - Geographical Information Systems
 - Real Time System Design
- Soft Skill Development – I
- Soft Skill Development - II
- Open Elective.
 - Intranet Technology
- Knowledge Management and Information Technology, Simulation and Modeling Courses were introduced for Honors Programme.

The UG programme B.Sc CT consists of 51 courses in which 19 are new courses and the changes has been made in all the remaining 40 courses. The overall change is approximately 56 % .

Remarks:

Substantial changes in the content have been brought in both B.Sc IT and B.Sc CT program courses in consonance with changes taking to the respective field and in fact, these courses are tantamount to new courses.

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 Board of studies 2015-2016

Minutes of the meeting of the Board of Studies in Management held on 17-04-2015 at 10.00 am in the **Department of Management** at Karpagam Academy of Higher Education

Members Present

- | | |
|---|-------------|
| 1. Dr M Nandhini | Chairperson |
| Head (i/c) | |
| Department of Management | |
| Karpagam Academy of Higher Education | |
| Coimbatore-641021 | |
| 2. Dr. V. Krishnaveni | Member |
| Assistant professor | |
| Department of Management | |
| Karpagam Academy of Higher Education | |
| Coimbatore-641021 | |
| 3. Mrs M.Usha | Member |
| Assistant professor | |
| Department of Management | |
| Karpagam Academy of Higher Education | |
| Coimbatore-641021 | |
| 4. Dr J Clement Sudhahar | Member |
| Professor | |
| School of Business, Leadership and Management | |
| Karunya University | |
| Coimbatore-641114 | |

Mobile: 9842469914

E-mail: clemns@rediffmail.com

clemns@gmail.com

5. Mr G Balasubramanian

Member

Company Secretary

Roots Multilean Ltd

RKG Industrial Estate

Ganapthy

Coimbatore-641006.

Mobile: 9944400224

E-mail: gbalaa@gmail.com

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 **BBA** Programme.

Resolution: 1

1. Resolved to approve the Regulations and Syllabus for **BBA** Programme and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure-I).
- 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-I

1. In the Second semester, Practical – MS Office (15BAU201) course was Introduced
2. In the Third Semester, Production and Materials Management (15BAU301), Direct Tax (15BAU302), Organizational Behaviour (15BAU303), Introduction to Information

- Technology (15BAU304C) and Tally - Practical (15BAU311) were the new courses introduced
3. In the Fourth Semester, Financial Management (15BAU401), Business Law (15BAU402), Personnel Management and Industrial Relations (15BAU403), Insurance Principles and Practice (15BAU404C) and Indian Financial System (15BAU404A) were the new courses introduced
 4. In the Fifth Semester, Cost and Management Accounting (15BAU501), Research Methodology (15BAU502), Advertising and Sales Promotion (15BAU503), Entrepreneurship and Project Management (15BAU504), Company Law and Secretarial Practice (15BAU506A), Modern Office Management (15BAU506B), Banking Law and Practice (15BAU506C) were the new courses introduced
 5. In the Sixth Semester, Investment Management (15BAU601), Retail Management (15BAU602), International Business (15BAU603A), Strategic Management (15BAU603B) and Human Resource Development (15BAU603) were the new courses introduced
 6. In the II Semester, Course: Principles of Marketing (15BAU201), Consumer Protection Act was included in Unit II.
 7. In the III Semester Course: Production and Materials Management (15BAU301), unit III, unit IV and unit V were totally replaced with Materials Management, Inventory Management and Balance Score Card concepts respectively.
 8. Organizational Behaviour (15BAU303), Unit V were totally replaced with leadership and Organizational effectiveness concepts respectively
 9. In the Fourth semester, Direct Tax (15BAU302), Unit IV and Unit V were totally replaced with Capital gain and computation of total income concepts respectively.
 10. Financial Management (15BAU401), Unit II and Unit V were totally replaced with Financing decision and Analysis of risk and uncertainty concepts respectively.
 11. Business Law (15BAU402), Unit II and Unit V were totally replaced with legality of object and common carrier's concepts respectively.
 12. Personnel Management and Industrial Relations (15BAU403) course, Unit IV and V were totally replaced with wages and salary administration and industry relations concepts respectively.

13. Insurance Principles and Practice (15BAU404C) course, Unit III, Unit IV and Unit V were totally replaced with Law relating to general insurance, deposits and credit insurance and Marine Insurance concepts respectively.
14. Indian Financial System (15BAU404A) course, Unit IV and Unit V were totally replaced with regulatory institutions and Banking innovations concepts respectively
15. In the Fifth semester, Cost and Management Accounting (15BAU501) course, Unit IV were totally replaced with Fund flow statement and Cash flow statement concepts respectively
16. Research Methodology (15BAU502) course, Unit V were totally replaced with Interpretation concepts respectively.
17. Advertising and Sales Promotion (15BAU503) course, Unit III and Unit V were totally replaced with Advertising Layout and Sales Promotion concepts respectively.
18. Entrepreneurship and Project Management (15BAU504) course, Unit II and Unit V were totally replaced with Entrepreneurship Development Programme and Project formulation concepts respectively
19. Company Law and Secretarial Practice (15BAU506A) course, Unit II were totally replaced with Directors Qualification and appointment concepts respectively.
20. Modern Office Management (15BAU506B) course Unit III and Unit V were totally replaced with Office correspondence and record management and Office personnel relations concepts respectively.
21. Banking Law and Practice (15BAU506C) course, Unit IV and Unit V were totally replaced with Loans and advances and Position of surety concepts respectively
22. In the VI semester, Investment Management (15BAU601) course, Unit IV and Unit V were totally replaced with Company analysis and Portfolio analysis concepts respectively
23. Retail Management (15BAU602) course, in Unit III and Unit V were totally replaced with Organizational structure, HRM in retail and IT Applications in retail concepts respectively.
24. International Business (15BAU603A) course, Unit IV and Unit V were totally replaced with export finance and International Agencies and Agreement concepts respectively

25. Strategic Management (15BAU603B) course, Unit IV and Unit V were totally replaced with Implementation and Resource allocation and Core competencies concepts respectively

26. Human Resource Development (15BAU603) course, Unit III and Unit IV were totally replaced with Potential Appraisal and Conceptual framework for training concept were respectively

and approved the same with necessary notification

The copy of approved syllabus is enclosed

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

UG Programme BBA consists of 42 courses out of which 8 are Language/English/Value added course. There is a syllabus change in 34 courses and hence total change = 37.65 %

KARPAGAM ACADEMY OF HIGHER EDUCATION
COIMBATORE – 641021

Minutes of the Meeting of Board of Studies 2015-16

Minutes of the meeting of the Board of Studies in Management held on 18.04.2015 at 10.30 am in the **Department of Management** at Karpagam Academy of Higher Education.

Members Present

1. Dr. M. Ashok Kumar – Professor & Head– Chairperson
2. Dr. A. Dharmaraj – Assistant Professor – Member
3. Dr. R. Karthikeyan – Assistant Professor – Member
4. Dr. M. Punniyamoorthy - Professor & Dean - Member
National Institute of Technology, Trichy
5. Ms. Vijay Lakshmi–Assistant Professor - Member
Nadar Saraswathi College of Arts & Science, Theni – 31

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 **MBA (Management)** programme and one course pertaining to MCA – (Financial & Management Accounting).

Resolution: 1

1. Resolved to approve the Regulations and Syllabus for **MBA (Management)** programme and one course pertaining to MCA – (Financial & Management Accounting) and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure-I).

Agenda: 2

To consider and approve the Regulations and Syllabus for MPhil/Ph.D in Management Programme for the Academic year 2015 - 2016

Resolution: 2

Resolved to approve the Regulations and Syllabus for MPhil/Ph.D in Management Programme and it comes into effect from 2015 - 2016 (Approved Syllabus given in Annexure - II).

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 are Strategic Business Management (15MBAP301), International Financial Management (15MBAPF303A), Strategic Cost Management (15MBAPF303B), Financial Service Management (15MBAPF303C), Services Marketing (15MBAPM303A), Sales and Promotional Management (15MBAPM303B), Marketing Research and Consumer behavior (15MBAPM303C), Human Resource Development (15MBAPH303A), Managing Interpersonal Effectiveness (15MBAPH303B), Organizational Development (15MBAPH303C), System Analysis & Design (15MBAPS303A), Emerging Trends in Technology (15MBAPS303B), Software Development (15MBAPS303C), Entrepreneurial Finance (15MBAPE303A), Entrepreneurship Development (15MBAPE303B), Project management (15MBAPE303C), Working Capital Management (15MBAPF401A), Security Analysis & Portfolio Management (15MBAPF401B), Bonds, Derivatives & Commodity Market Management (15MBAPF401C), Retail Marketing (15MBAPM401B), Customer Relationship Management (15MBAPM401C), Industrial Relations (15MBAPH401A), Training and Development (15MBAPH401B), Compensation Management (15MBAPH401C), E-Commerce Technology & Management (15MBAPS401A), Software Project Management (15MBAPS401B), Enterprise Resource Planning (15MBAPS401C), Technology Innovation & Sustainable Enterprise for Management (15MBAPE401A), Business Plan & Ethics (15MBAPE401B), Managing Diversity (15MBAPE401C).

- ✓ All the courses were focused towards employability, entrepreneurship and skill development.

ANNEXURE - I

The following were incorporated for this academic year 2015-17 MBA (General Management)

In the course Management Principles and Organization Behavior (15MBAP101) the topic 'objectives' is added in Unit 1. The topics organizational culture types are removed from unit 5.

In the course managerial economics the topic 'Demand Distinction' is removed from Unit 1. The topic 'short and long run cost curve is added in unit 3.

The course 'legal aspect of business' is renamed as 'legal environment for business (15MBAP103) and the topic 'industrial law' removed from unit 5.

Comprehensive viva voce (15MBAP106/2017/304 is introduced as new courses in all four semesters. Management practice – 1 (15MBAP109) is added as new course in I semester. The course communication practice (15MBAP108) added in I semester as new course.

A foundation course on 'environmental management (15MBAP107) is added as new course in first semester.

The courses 'Seminar' and 'career practice' is added in I, II, and III semester respectively. In the course **Marketing Management (15MBAP202)** the concepts 'marketing interface with other functional areas' is removed from unit 1, E-marketing and Green marketing is added to unit 2. The product life cycle is shifted from unit 2 to unit 3.

In the course **Human Resource Management (15MBAP203)**, the topic establishing pay plan' is removed from unit 4.

In the course **Research Methods for Management (15MBAP206)**, the topics 'test of sound measurements and techniques of measurement' is removed from unit 3.

An open elective (self-study course) is introduced in II and III semester, whether the students can opt a course provided by any other PG Department of the university. The course **strategic business management (15MBAP301)** is shifted from semester IV to III four more specialization, i.e., Banking Management Retail Management, International Business and Production Management are introduced with 6 electives comprising of 3 courses for III and IV semester respectively. Totally 24 new courses were added as electives.

The **minor project (15MBAP307)** is replaced for major project during the III semester. The course International Marketing in the Marketing Specialization is replaced by a new course **Brands and Business**. The course Supply Chain Management in the marketing specialization is replaced by **customer relationship management**. The topics in the courses international financial management and security analysis and portfolio management in the finance elective are being rearranged.

The **major project and viva voce (15MBAP403)** is shifted from III to IV semester.

The following are the suggestion made by the expert member of BoS.

The representation of published articles from journals for CIA can be changed as presentation of current issues from Business newspapers such as Business line, economic times, business standard and financial express.

The **comprehensive viva voce** introduced was appreciated. The panel should consist of external member and staff of all functional areas. The time slot for each candidate shall be 15-20 minutes. Follow up should be taken.

The course **energy management** is to be replaced by a new course Entrepreneurship **(15MBAP302)**

Strategic Business Management (15MBAP301) – Unit I and Unit II are totally changed.

International Financial Management (15MBAPF303A) – Unit I, Unit II and Unit III are totally changed.

Strategic Cost Management (15MBAPF303B) – Unit IV and Unit V are totally changed.

Financial Service Management (15MBAPF303C) – All Units are totally changed.

Services Marketing (15MBAPM303A) – Unit IV and Unit V are totally changed.

Sales and Promotional Management (15MBAPM303B) – Unit IV and Unit V are totally changed.

Marketing Research and Consumer behavior (15MBAPM303C) – Unit II and Unit III are totally changed.

Human Resource Development (15MBAPH303A) – Unit IV and Unit V are totally changed.

Managing Interpersonal Effectiveness (15MBAPH303B) – Unit II and Unit III are totally changed.

Organizational Development (15MBAPH303C) – Unit III and Unit IV are totally changed.

System Analysis & Design (15MBAPS303A) – Unit III and Unit V are totally changed.

Emerging Trends in Technology (15MBAPS303B) – Unit II and Unit III are totally changed.

Software Development (15MBAPS303C) – Unit IV and Unit V are totally changed.

Entrepreneurial Finance (15MBAPE303A) – Unit III and Unit IV are totally changed.

Entrepreneurship Development (15MBAPE303B) – Unit I and Unit III are totally changed.

Project management (15MBAPE303C) – Unit IV and Unit V are totally changed.

Working Capital Management (15MBAPF401A) – Unit III is totally changed.

Security Analysis & Portfolio Management (15MBAPF401B) – All Units are totally changed.

Bonds, Derivatives & Commodity Market Management (15MBAPF401C) – Unit II, Unit III and Unit IV are totally changed.

Retail Marketing (15MBAPM401B) – Unit III and Unit V are totally changed.

Customer Relationship Management (15MBAPM401C) – Unit IV and Unit V are totally changed.

Industrial Relations (15MBAPH401A) – Unit II and Unit III are totally changed. Training

and Development (15MBAPH401B) – Unit II and Unit III are totally changed.

Compensation Management (15MBAPH401C) – Unit III and Unit IV are totally changed.

E-Commerce Technology & Management (15MBAPS401A) – Unit II and Unit III are totally changed.

Software Project Management (15MBAPS401B) – Unit I and Unit IV are totally changed.

Enterprise Resource Planning (15MBAPS401C) – Unit I and Unit II are totally changed.

Technology Innovation & Sustainable Enterprise for Management (15MBAPE401A) – Unit IV and Unit V are totally changed.

Business Plan & Ethics (15MBAPE401B) – Unit IV and Unit V are totally changed.

Managing Diversity (15MBAPE401C) – Unit III and Unit V are totally changed.

Annexure-II

- ✓ In Advanced Operations Management and Consumer Behaviour, Unit V is totally changed.
- ✓ Two new courses Corporate Social Responsibility, Business Ethics and Corporate Governance and Advanced Entrepreneurship are added as elective papers in the Syllabi of MPhil/Ph.D (Management) Programme.

Finally the chairperson of the Board of Studies in Management is authorized to carry out the modifications if any, in future.

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

The percentage of changes in PG programme MBA is 58.21%.

The percentage of changes in M.Phil/Ph.D programme (Management) is 20%.

KARPAGAM ACADEMY OF HIGHER EDUCATION
COIMBATORE – 641 021

Minutes of the meeting of the Board of Studies in Mathematics held on 16.04.2015 at 10.00 am in the Department of Mathematics at Karpagam Academy of Higher Education.

Member Present:

1. Dr.N.Anitha,
Assistant Professor & Head(i/c),
Department of Mathematics,
Karpagam Academy of Higher Education,
Coimbatore – 641021.
2. Dr.M.M.Shanmugapriya,
Assistant Professor,
Department of Mathematics,
Karpagam Academy of Higher Education,
Coimbatore – 641021.
3. Dr.P.Poongodi,
Assistant Professor,
Department of Mathematics,
Karpagam Academy of Higher Education,
Coimbatore – 641021.
4. Dr.S.P.Anjali Devi,
Professor & Head,
Department of Applied Mathematics,
Bharathiar University,
Coimbatore – 46.
5. Mr.Anburaj,
Assistant Professor,
Department of Mathematics,
NGM College of Arts and Science,
Pollachi – 642 011

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

Agenda: 1

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

Resolution: 1

Resolved to approve the Regulations and Syllabus for B. Sc. Mathematics programme and it comes into effect from 2015-16

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 2015-16

Agenda: 3

To consider and approve the Regulations and Syllabus of the allied courses for B.Sc (CS), B.Sc (IT), B.Sc (CT), BCA, B.Com, B.Com (CA), B.Com (PA), M.Com, M.Com(CA), B.Sc(CT), B.Sc Electronics, B.Sc physics, B.Sc chemistry, BBA, B.Sc(BT), B.Sc(BC) and M.Sc(MB) from the academic year 2015-16 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 2015-16

Agenda: 4

To consider and approve the Regulations and Syllabus for the following Research programme for the Academic year 2015-2016.

- 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 2015-2016.

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

- ❖ The course Activity-1 may be replaced with the new course Soft skill development-1
- ❖ The new course Number theory and Cryptography may be included instead of the course Statistical Quality Control and Six sigma Quality analysis.
- ❖ The courses Stochastic Process and Numerical Methods-Practical may be included instead of the courses Object oriented programming with c++ and Object oriented programming with c++-Lab respectively.
- ❖ The courses Introduction to Accounting -Practical's and Cost and Management Accounting-Practical's may be excluded from the curriculum.
- ❖ The courses fundamentals of computer programming and finite element methods can be removed from the curriculum.
- ❖ The courses, Linear algebra and Theory of sampling and design of experimental can be excluded from the curriculum.
- ❖ The course Trigonometry and calculus may be renamed and contents change with 100%percentage.

❖ The following courses are may be added as new courses in the curriculum

- Indian Banking
- General Chemistry – I
- Statistics- Practical
- Introduction to Computers
- Soft Skill development-I
- General Chemistry - II
- Introduction to multimedia
- Human Resource Management
- Soft skill development – II
- Soft Skill development-II
- MATLAB programming
- Statistical Quality Control
- Advanced graph theory
- Fuzzy sets and its applications
- Lattice Theory
- Allied Physics –II
- Complex Analysis - I
- Complex Analysis - II

❖ **Matrices and Classical Algebra**

Unit-I: The topics “Diagonalization of matrix by orthogonal transformation and quadratic” form may be excluded.

Unit-II: The topics “Absolute convergence series and test for uniform convergence” can be excluded.

Unit-IV: The concept reciprocal of roots can be changed by the concept Symmetric function of roots.

Unit-V: The topics “Newton’s methods of devices and Horner’s method” may be excluded due to beyond the student’s level.

❖ **Calculus**

Unit-I: Whole unit replaced by the topics, Expansion of trigonometric functions and general theorems on Gregory’s series.

Unit-II: This unit to is be replaced by Unit-III.

Unit-III: This unit to is be replaced by Unit-IV.

Unit-IV: This unit to is be replaced by Unit-V.

Unit-V: All topics are to be replaced with beta and gamma function and their integrals.

❖ **Allied Physics-I**

Unit -V may be removed from the syllabus and the contents related to mechanics may be included as Unit-I.

❖ **Allied Physics-I-Practical**

Experiments related to Unit-V may be removed from the list of experiments. Two experiments pertaining to Unit-I may be included in the list.

❖ **Value Education and Healthy Practices**

Unit-V may be removed from the syllabus and included topics related to social evils.

❖ **Mathematical Statistics**

The course may be moved from semester II to semester III. The contents of Unit V may be deleted from the syllabus and in lieu of that the contents pertaining to statistics may be included. The course name may be changed into Statistics.

❖ **Differential Equations and Laplace Transforms**

Unit-V: The topic “Solving the ordinary differential equations with variable coefficients using Laplace transforms” to be removed.

❖ **Allied Physics –II -Practical**

Experiments related to Unit-V may be removed from the list of experiments. Two experiments pertaining to Unit-I may be included in the list.

❖ **Environmental Studies**

Contents of Unit -V may be trimmed as it too hefty.

❖ **Analytical Geometry**

Unit-II: The contents are removed and can be replaced by the topics straight line plane, coplanar lines and the shortest distance between two given lines.

Unit-III: the topics can be changed to basic concepts of sphere.

Unit-V : The second half of the Unit-IV can be moved to Unit-V.

❖ **Cost and Management Accounting**

Contents of Unit-IV may be removed and contents related to marginal costing may be included.

❖ **Vector Analysis and Transforms**

Unit-I: The topics solenoidal and irrotational vectors, Laplacian operators can be removed and replaced by Derivative of a vector function and Level surfaces.

Unit-III: The topics finding Fourier coefficients for a given periodic function and odd even function may be added.

❖ **Operations Research**

Unit-III: The topics Processing n-jobs through 2 machines, Processing n-jobs through 3 machines may be added.

Unit-IV: The concepts of game theory can be removed from this unit due to irrelevance of sequel of the title.

❖ **Real Analysis – I**

Unit-I: The topics properties of the integers deduced from the completeness axiom- The Archimedean property of the real number system may be added.

Unit-II: This unit may be replaced with the topics covering, compactness of metric spaces and its related theorems.

❖ **Numerical Methods**

Unit-III: The topics Error Propagation in difference table – operator E – Relation between Δ , E and D may be added.

Unit-IV: The topics central differences, Gauss forward and backward and Stirling's formula can be removed due to heavy portion of this unit.

❖ **Discrete Mathematics**

Contents of Unit-III may be removed and contents which is beyond the student's level.

❖ **Real Analysis -II**

Unit-III: The topics Taylor's formula with remainder may be excluded. And the concepts continuity one side derivatives and infinitely derivatives can be added.

Unit-IV: The topic continuous functions of bounded variations can be removed.

Unit-V: All the topics are changed to Riemann Stieltjes integral and its properties.

❖ **Modern Algebra**

Contents of Unit-V may be removed and contents which is beyond the student's level.

- ❖ All the courses were focused towards employment, entrepreneurship and skill development.

The UG programme B.Sc. Mathematics consists of 50 courses. Among these 23 courses are added as new courses and the content of the 20 courses is replaced. The total percentage change in the syllabus content is = 63%.

PG PROGRAMME (M.Sc. Mathematics)

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

- ❖ The courses programming in java and programming in java-practical may be introduced as new courses instead of VB-net programming and VB-net programming practical respectively.
- ❖ The course MATLAB programming, Lattice theory and algebraic topology can be removed and replaced by the new course reactively Discrete mathematics, Graph theory and its applications and Three-dimensional analytical geometry
- ❖ The following courses may be introduced as core and elective new courses
 - Mechanics
 - Fundamentals of Actuarial Mathematics
 - Computer Based Numerical Methods
 - Computer Based Numerical Methods
 - Probability and theoretical distributions
 - Finite elements methods
 - Combinatorics
- ❖ The courses Number theory and cryptography, Stochastic processes and non-linear analysis may be excluded from the curriculum.
- ❖ The courses Complex analysis, functional analysis and mathematical statistics can be added with more topics and consider as new courses.
- ❖ **Algebra**

Unit-IV: This unit may be replaced by the concepts of linear transformation and canonical and Jordan forms.

Unit-V: This unit can be replaced by trace and transpose, Hermitian unitary and normal transformation.

❖ **Real Analysis**

Unit-IV: This unit may be replaced by the concepts of the Lebesgue integral and its theorems.

Unit-V: This unit can be changed to implicit function and extremum problems.

❖ **Numerical Analysis**

Unit-IV: This topics Eigen values of a matrix by iteration, the power method may be added.

Unit-V: The topics Laplace equations, Poisson equations and derivative boundary conditions can be removed.

❖ **Ordinary Differential Equations**

Unit-III: This unit is replaced by the topics Non homogeneous linear system, linear systems with constant coefficient and Linear systems with periodic coefficients.

❖ **Topology**

Unit-IV: The topic hereditary properties can be removed and replaced by Complete regular spaces and normal spaces.

Unit-V: The topics components of a space, locally connected space and its theorem can be added.

❖ **Optimization Techniques**

Unit-II: The topics illustrating method of solution and continuous dynamic programming can be removed and replaced by Characteristics of Dynamic Programming Problem, Developing Optimal Decision Policy, Dynamic Programming Under Certainty - DP approach to solve LPP.

Unit-IV: This unit content can be replaced by Decision Analysis and its properties.

❖ **Partial Differential Equations**

Unit-II: This unit is replaced by the topics Second Order Partial Differential Equations and its problems.

Unit-III: This unit is replaced by the topics Method of separation of variables and The method of integral transforms.

❖ **Fluid Dynamics**

Unit-IV: The concepts flow between parallel flat plates, plane Poiseuille flow and Hagen-Poiseuille flow can be removed.

Unit-V: The topics Von karman integral relation and Von karman integral relation by momentum law can be removed and replaced by Displacement thickness, Momentum thickness and Kinetic energy thickness.

❖ **Mathematical methods**

This course can be renamed as Integral Equations and Transforms

Unit-I: The topic Fourier transforms of rational function may be added.

Unit-II: The topic The Linear diffusion equation on a semi-infinite line can be added to this unit.

❖ **Measure Theory**

Unit-I: The topics Measurable functions – Littlewood’s three principle can be added due to sequel of the topics.

Unit-III: This unit can be replaced by Unit-IV.

Unit-IV: The contents can be replaced by Measure spaces-Measurable functions-Integration-General convergence Theorems.

- ❖ All the courses were focused towards employment, entrepreneurship and skill development.

The PG programme, M.Sc Mathematics consists of 30 courses. Among 30 courses, 15 new courses are added and there is a syllabus change in 10 courses. Hence, the percentage of syllabus content change is =58%.

Allied Courses

1. The course entitled “**Probability and Statistics**” changed to “**Statistical Methods**”.
2. Some more practical’s are introduced for 100 marks practical courses.

M.Phil / P.hD PROGRAMME

- ❖ The core& elective courses Advanced algebra and its applications, Differential equations can be introduced instead of the core & elective courses Advanced algebra and analysis, Fuzzy matrix respectively.
- ❖ The elective courses, Optimization techniques can be added with 100% changes instead of the course Graph theory and its applications.
- ❖ The elective courses Advanced Topics in Fluid Dynamics courses, Hydrodynamic and hydromagnetic stability, Robust Control System and Advanced Graph Theory can be included, instead of Operation Research -Resource Allocation in Software, Advanced Acceptance Sampling, Random Processes and Graph Theory and Abstract Control Theory respectively.
- ❖ The elective course Topology can be changed with 100% of syllabus contents.
- ❖ In the course Advanced Algebra and its Application, Unit-V can be replaced by half of the content of Unit-IV

The M.Phil/P.hD programme consists of 12 courses. Among 12 courses, 9 new courses are added and there is a syllabus content change in 2 courses. The total percentage of syllabus content change is = 73%.

BOARD OF STUDIES
MINUTES OF THE MEETING OF BOARD OF STUDIES

2015-2016

Minutes of the meeting of the Board of Studies in Microbiology (UG, PG) held on 16.04.2015 at 10.00 am in the Microbiology, Department at Karpagam Academy of Higher Education.

MEMBERS PRESENT:

1. Dr. M. Palaniswamy
Dean (i/c), FASH & HOD,
Department of Microbiology,
Karpagam University,
Coimbatore – 21
2. Dr. B. V. Pradeep Assistant
Professor, Department of
Microbiology, Karpagam
University, Coimbatore – 21
3. Dr. R. Usha Assistant
Professor, Department of
Microbiology, Karpagam
University, Coimbatore – 21
4. Dr. R. Balagurunathan
Professor & Head,
Department of Microbiology,
Periyar University,
Salem 636011
Ph: 9443446325
5. Dr. Sooraj S Nath Assistant
Professor, Department of
Microbiology,
Safi Institute of Advance Study (SIAS),
Rasiya Nagar, Vazhyoor East Post,
Ramanattukara 673 633, Kerala.
Ph: 09995917362

The chairperson welcomed the member 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 2015-16 (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 2015-16 (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 2015-16 (Approved Regulations and Syllabus given in Annexure-III).

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

The Board passes the syllabus for Bsc Microbiology, MSc Microbiology, M.Phil& PhD Microbiology and approved the same. (Syllabus enclosed)

The curriculum and syllabus for Microbiology program have been framed as per CBCS pattern. This syllabus is applicable for students admitted during the 2015 – 2016.

The following changes are made in the syllabus.

B.Sc. MICROBIOLOGY:

In all the courses approximately 25 % **changes** have been made with respect to the content of the courses.

| S.No | Course code | Course Name | Changes made |
|------|-------------|--|----------------------------|
| 1 | 15MBU101 | Introductory Microbiology | Unit IV and V changed |
| 2 | 15MBU111 | Basic Microbiology Practical – I | 3 experiments were changed |
| 3 | 15MBU102 | Allied Chemistry – I | Unit IV and V changed |
| 4 | 15MBU112 | Allied Chemistry Practical – I | One experiment was added. |
| 5 | 15MBU201 | Microbial Diversity and Classification | Unit IV and V changed |
| 6 | 15MBU211 | Basic Microbiology Practical – II | 2 experiments were changed |
| 7 | 15MBU202 | Allied Chemistry – II | Unit IV and V changed |
| 8 | 15MBU212 | Allied Chemistry Practical – II | One experiment was added. |
| 9 | 15MBU301 | Microbial Physiology | Unit IV and V changed |
| 10 | 15MBU302 | Bioinstrumentation | Unit IV and V changed |
| 11 | 15MBU311 | Advanced Microbiology Practical – III | 2 experiments were changed |
| 12 | 15MBU303 | Allied Elective –I Biopharmacy | Unit IV and V changed |
| 13 | 15MBU312 | Allied Elective Practical – I | 2 experiments were changed |
| 14 | 15MBU402 | Medical bacteriology | Unit IV and V changed |
| 15 | 15MBU411 | Advanced Microbiology Practical – IV | 2 experiments were changed |
| 16 | 15MBU403 | Allied Elective -II | Unit IV and V changed |
| 17 | 15MBU412 | Allied Elective Practical – II | 1 experiment added |
| 18 | 15MBU501 | Basic and Clinical Immunology | Unit IV and V changed |
| 19 | 15MBU502 | Virology | Unit IV and V changed |
| 20 | 15MBU503 | Food and Agricultural Microbiology | Unit IV and V changed |
| 21 | 15MBU504 | Environmental Microbiology | Unit IV and V changed |
| 22 | 15MBU505 | Core Elective – I | 2 experiments were changed |
| 23 | 15MBU601 | Industrial Microbiology | Unit IV and V changed |
| 24 | 15MBU602 | Microbial Technology and Intellectual | Unit IV and V changed |

| | | | |
|----|----------|-------------------------------------|----------------------------|
| | | Property Rights | |
| 25 | 15MBU603 | Core Elective – II | Unit IV and V changed |
| 26 | 15MBU611 | Application Oriented Practical – VI | 2 experiments were changed |

In addition to this the following changes have been made.

1. 15MBU101(Introductory Microbiology) – removed Eukaryotic cell – cell wall, plasma membrane, organelles. Structure of yeast.
2. 15MBU311(Advance Microbiology Practical – III) – removed Isolation of Halophiles, Isolation of Thermophiles, Litmus Milk reduction test, Lipid, Utilization of amino acids – Phenylalanine deaminase test.
3. 15MBU411 (Advance Microbiology Practical – IV) – Added : Identification of major bacterial pathogens – *E. coli*, *Klebsiella*, *Proteus*, *Salmonella*, *Shigella*, *Pseudomonas*, *Staphylococcus aureus*, *Streptococcus pyogenes*, Preparation of Antibiotic Disc, Antibiotic Sensitivity Test – Disc Diffusion Method.
4. 15MBU411 (Advance Microbiology Practical – IV) – Removed Induction of Lac operon, Isolation of microorganism from air, Isolation of microorganism from water, Bacteriological examination of water by multiple tube technique, Estimation of dissolved oxygen of water, Estimation of BOD. Estimation of COD, Demonstration of waste.treatment plant, demonstration of composting, Isolation of microorganism from soil.
5. 15MBU511 (Application Oriented Practical – V) – Added Induction of Lac operon, Isolation of microorganism from air, Isolation of microorganism from water, Bacteriological examination of water by multiple tube technique, Estimation of dissolved oxygen of water, Estimation of BOD. Estimation of COD, Demonstration of waste treatment plant, demonstration of composting, Isolation of microorganism from soil.
6. 15MBU511 (Application Oriented Practical – V) - Removed Identification of major bacterial pathogens – *E. coli*, *Klebsiella*, *Proteus*, *Salmonella*, *Shigella*, *Pseudomonas*, *Staphylococcus aureus*, *Streptococcus pyogenes*, Preparation of Antibiotic Disc, Antibiotic Sensitivity Test – Disc Diffusion Method.

Bsc Microbiology programme consist of 41 number of courses. Out of which 13 are language, open elective and other general course. **There is a syllabus changes in 28 courses. The percentage of syllabus changes in the 2015- 2016 for UG Programme is 100%.**

M.Sc. MICROBIOLOGY:

1.15MBP202 (Medical Bacteriology) – Removed - Infections – type – methods – infectious disease cycle. Quality control in Microbiology lab and added to Unit – II, Added Nosocomial infection – Urinary tract infection, Respiratory tract infection, Sexually transmitted disease – Immunoprophylaxis – Vaccines and antibiotics.- Phage typing and bacteriocin typing.Gram negative organisms: Morphology, cultural characteristics, antigenic property, pathogenecity, laboratory diagnosis and treatment. *E.coli*, *Klebsiellasp.*, *Proteus sp.*, *Pseudomonas sp.*, *Vibrio sp.*, *Salmonella sp.*, *Shigella sp.*, *Treponema sp.*, *Neisseria sp.* and *Haemophilus sp.*

2. 15MBP204B (Computer Application and Bioinformatics) – Added Information networks-internet, web browsers, HTTP,HTML and URLs. EMBnet – NCBI, Virtual tourism. Introduction to Operating systems like Windows, UNIX & LINUX - Computer Viruses – Overview and prevention.

3. 15MBP306 (Cell Biology) – Added Cell- Definitions and properties, cell theory. Ultra structure of eukaryotic cell - plant and animal. Bacterial cell wall structure and composition and their functions.Plasma membrane - structure and functions. Transportation – types and methods. Role of microtubules and microfilaments. Meiosis - properties and significance, Phases of meiosis and Cellular aging.

Msc Microbiology programme consist of 30 number of courses. There is a syllabus changes in 03 courses. The percentage of syllabus changes in the 2015- 2016 for PG Programme is 10%.

M.Phil and Ph.Dprogramme

Total number of courses present during the year 2014-15 =9

Total number of courses present during the year 2015-16 =6

Percentage change in the syllabi = 33.3%



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DEPARTMENT OF PHYSICS

Minutes of the meeting of board of studies (2015-2016)

Minutes of the meeting of the board of studies in PHYSICS held on (15.04.2015) at 02.00 PM

Members present :

1. Dr. K.Viswanathan (Chairman)
2. Dr.V.Senthilkumar (Member)
- 3.Dr.B.Janarthanan (Member)
- 4.Mrs.AmbiliVipin (Member)
- 5.Ms.A.SahanaFathima (Member)
- 6.Dr.S.Arumugam (External Member)
- 7.Mrs.B.Gomathi (External Member)

The chairperson welcomed the members of the board. The board carefully sanitized the draft syllabus/syllabi of the following programs.

- 1.B.Sc PHYSICS
- 2.M.Sc PHYSICS
- 3.M.Phil & Ph.D

and following Courses

- 4.ALLIED PHYSICS I & II
5. OPEN ELECTIVE PAPER FOR UG and PG COURSES

and approved the same.

The board resolved to suggest that the total credits and marks for Allied Maths and Chemistry (or Allied Statistics or Allied Bioinformatics) should be the same

Maximum credit for each theory paper with the score of 100 marks need to be 4 with 4 contact hours per week.

The courses with 2 credits can have only 50 marks. The following changes done in the syllabi were approved by the Board.

B.Sc Physics

1. 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.
2. The paper Heat and Sound in Semester 2 is changed to Heat and Thermodynamics(15PHU201).
3. The paper modern physics of 3 rd Semester B.Sc is removed and the units are redistributed in other papers, instead a paper titled as Solid State Physics(15PHU302) is introduced 3 rd Semester of B.Sc Physics.
4. In B.Sc Physics 3 elective courses are introduced for departmental courses and an open elective paper is introduced in the 4 th Semester.
5. In the fourth Semester Thermo Dynamics and Statistical Mechanics (14PHU402) has been replaced by Optics and Sound (15PHU402).
6. In the fourth Semester the elective papers Elective I: Applied Electronics (14PHU404A), Elective II: Microprocessor and its Applications – 8085 (14PHU404B) and Elective III: Materials Science (14PHU404C) has been removed.
7. In the Fifth Semester The Elective I courses Medical Physics (14PHU505A), From atoms to Universe(14PHU505B), and Atmosphere and Weather (14PHU505C), has been removed. Instead two new elective courses Numerical methods (15PHU505A) , Renewable energy sources (15PHU505B) and Non linear Optics(15PHU505C) has been Included.
8. In the Sixth Semester two electives II and III were introduced.
Elective II:
MATHEMATICAL PHYSICS (15PHU603A), NANOTECHNOLOGY & APPLCATIONS (15PHU603B)(new course), ASTROPHYSICS (15PHU603C)(new course),
9. Elective III
ELECTROMAGNETIC THEORY(15PHU604A), OPTICAL COMMUNICATION (15PHU604B) (new course),, BIOPHYSICS (15PHU604C)(new course),
10. Allied mathematics practicals I was removed and instead soft skill development I(15SSD101) was introduced in Semester I
11. Allied mathematics practicals II was removed and instead soft skill development II (15SSD201) was introduced in Semester I
12. In Semester III Allied bioinformatics – 1 (15PHU303C), Allied statistics I (15PHU303B) were introduced as electives along with allied chemistry I. In Semester IV Allied bioinformatics – II (15PHU403C) (new course),, Allied statistics II (15PHU403B) (new course), were introduced as electives along with allied chemistry II.

13. In Semester III Allied bioinformatics Practical– 1 (15PHU313C), Allied statistics Practical I (15PHU313B) (new course), were introduced as electives along with allied chemistry Practical I. In Semester IV Allied bioinformatics Practical – II (15PHU413C) (new course), Allied statistics Practical II (15PHU413B(new course), were introduced as electives along with allied chemistry Practical II.

M.Sc Physics

The board recommends the introduction of 4 elective papers two each in II and III Semester respectively and a new open elective paper (Introduction to Astronomy -15OEP201) in the second Semester.

Electives in Semester II (all are new courses except 15PHP203B and 15PHP204A)

| LIST OF CORE COURSE ELECTIVES | |
|-------------------------------|---------------------------------|
| 15PHP203A | Material Science |
| 15PHP203B | Astronomy and Astrophysics |
| 15PHP203C | Crystal Growth Techniques |
| 15PHP203D | Digital Signal Processing |
| 15PHP203E | Computational Physics |
| 15PHP204A | Thin Film Physics |
| 15PHP204B | Nano structure Characterisation |
| 15PHP204C | Nonlinear Dynamics |
| 15PHP204D | Quantum Field Theory |
| 15PHP204E | Optoelectronics |

Electives in Semester III (all are new courses except 15PHP305A)

| LIST OF CORE COURSE ELECTIVES | |
|-------------------------------|--|
| 15PHP304A | Digital Electronics and Microprocessor |
| 15PHP304B | Physics of Materials |
| 15PHP304C | Reactor Physics |
| 15PHP304D | Plasma Physics |
| 15PHP304E | Geophysics |
| 15PHP305A | Solar Energy and its utilization |
| 15PHP305B | Nanotechnology |
| 15PHP305C | Particle Physics |
| 15PHP305D | Statistical Physics |
| 15PHP305E | Biophysics |

The board approves the suggestion that in Semester I

1. The title of the course Electronics (14PHP103) has been renamed as Electronics Devices and Circuits (15PHP102).
2. The course Thermal and statistical Physics (14PHP303) from Semester III has been renamed and placed in Semester I as Thermodynamics and Statistical Mechanics (15PHP103).
3. In Semester III the course Nuclear Physics and particle physics (14PHP304) has been renamed and placed in Semester II as Nuclear Physics (15PHP202). The course in Semester II Atomic and molecular spectroscopy (14PHP202) has been renamed and placed in Semester III as Spectroscopy(15PHP303). From the second Semester the course Electromagnetic theory and Electrodynamics (14PHP203) has been shifted to Semester IV.
4. In Semester III the course Optics and Lasers (14PHP302) has been changed into Laser and its applications (15PHP302)
5. The board approves the suggestion that paper electronics in I Semester is replaced with the paper Electronic devices and Circuits, that is the paper 15PHP304A replaces 15PHP102 Electronics paper instead a newspaper Digital Electronics and Microprocessor will replace the 15PHP304A ie., Electronics Devices and Circuits.
6. The board approves the syllabus of Digital Electronics and Microprocessor (15PHP304A).
7. In the first 3 Semester, at the end of each Semester, at the end of each Semester only one physics practical paper will be conducted.
8. In the Semester I the practical courses General Physics Practical I (14PHP111) and Electronics Practical I (14PHP112) has been combined and named as Physics Practical I(15PHP111)(new course)
9. In the Semester II the practical courses General Physics Practical II (14PHP211) and Electronics Practical II (14PHP212) has been combined and named as Physics Practical II(15PHP211) (new course)
10. In the Semester III the practical courses Advanced Physics Practical (14PHP311) and Advanced Electronics Practical (14PHP312) has been combined and named as Physics Practical III(15PHP311) (new course)

Percentage of courses revised for UG programme = 53 %

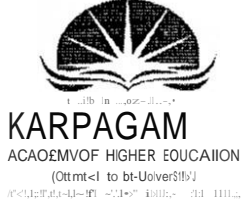
Percentage of courses revised for PG programme = 31 %

Ph.D Programme

Total number of courses present during the year 2014-15 =10

Total number of courses present during the year 2015-16 =6

Percentage change in the syllabi = 40%



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Faculty of Arts Science and Humanities

Department of Tamil

Minutes of the Board of Studies Meeting

16.04.2015

The meeting of Board of Studies in Tamil was held on 16.04.2015 at 10.00 am in the Department of Tamil at Karpagam Academy of Higher Education.

Member Present:

1. Dr.P.Thamilarasi
Professor & Head
Department of Tamil
Karpagam Academy of Higher Education,
Coimbatore - 641021.
2. Dr.R.Madhan Kumar
Assistant Professor
Department of Tamil
Karpagam Academy of Higher Education,
Coimbatore - 641021.
3. Dr.S. Kavitha
Assistant Professor
Department of Tamil
Karpagam Academy of Higher Education,
Coimbatore - 641021.
4. Dr. S.M. Ravichandran
Professor & Head
Department of Tamil
Bharathiyar University
Coimbatore - 641 046.

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

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

Agenda: 1

To consider and approve the Regulations and Syllabus of UG Part - 1 Tamil, Paper I & 2 for the Academic year 2015-2016.

Resolution: 1

Resolved to approve the Regulations and the revised Syllabus of UG Part - 1 Tamil, Paper I & 2 for the Academic year 2015-2016.

Agenda: 2

To consider and approve the Regulations and Syllabus for the following Research programs for the Academic year 2015-2016.

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

Resolution: 2

Resolved to approve the Regulations for i) MPhil and ii) Ph.D Research programs.

Revised Syllabus for 2015-2016 has the 52% of content change from the previous year syllabus 2014-2015.

Paper-I: 15RTAM101-Research Methodology and Pedagogy

Paper-II: 15RTAM201-History of Tamil Literature

Paper-III: Special Paper -- Elective list for 2015-2016:

| | |
|-----------|-------------------|
| 15RTAM301 | Sanga Ilakkiyam |
| 15RTAM302 | Ara Ilakkiyanggal |
| 15RTAM303 | Bhakthi Ilakkiyam |
| 15RTAM304 | Ikkaala ilakkiyam |
| 15RTAM305 | Naattuppuraviyal |

The Content change of the above listed Papers were approved for 2015-2016 as Special Paper - Elective and the following listed papers were removed from the Special Paper-Elective list.

| | |
|-----------|-------------------------|
| 14RTAM302 | Ilakkanamum Agarathiyum |
| 14RTAM305 | Kaappiyanggal |
| 14RTAM308 | Thagaval Thodarpiyal |
| 14RTAM309 | Naattuppuraviyal |
| 14RTAM310 | Thamizh Uraimarabhu |

After the discussion regarding the Content changes in the revised syllabus, it was approved by the Board of study members.

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

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Department of Automobile Engineering

Minutes of Meeting of Board of Studies

The Board of Studies Meeting for the Automobile Engineering was convened on **16.05.2015 at 1.00 pm @ Thiruvalluvar Hall**. The members reviewed the Automobile Engineering curriculum and Syllabi for BE Automobile Engineering.

BOS Members have given the following suggestions after review

| S.No | Name of BoS Member | Designation and Contact | Points Given | Remarks |
|------|-----------------------|---|--|--|
| 1. | Mr.Alaguvel Armstrong | Senior Engineer, Principal member -R&D TAFE, Chennai. Contact No:9444147640 | <ul style="list-style-type: none">• Rapid prototyping topic can be added in Manufacturing Technology subject• A new subject Vehicle Design and Data Characteristics can be added in core subject. | Implemented Implemented three units from the suggested subject to Automotive vehicle Design |
| 2. | Mr.S.Rajkamal | Engineering Associate J P Research India(P) Ltd Coimbatore-641014 Contact No:+9789757957 | <ul style="list-style-type: none">• Cooling and Lubrication unit have to be removed in IC Engine Design subject.• On-board Diagnostic topic from Automotive Electrical and | Implemented Implemented |

| | | | | |
|----|------------------------|--|--|---|
| | | | Electronics subject may be added in Automotive Pollution and NVH control. | |
| 3. | Dr.P.Shanmughasundaram | Prof & Head, Dept of Automobile Engg,Karpagam Academy of Higher Education | <ul style="list-style-type: none"> Valve Actuating Mechanism unit in Automotive Vehicle Design may be moved to IC Engine Design subject | Implemented |
| 4. | Dr.K.K.Padmanabhan | Prof. Dept of Automobile Engg,Karpagam Academy of Higher Education | <ul style="list-style-type: none"> A new book Advanced engine technology can be added in Automotive Engines subject In Fluid Mechanics subject Dr.R.K.Bansal may be added as textbook Engineering Materials and Metallurgy subject unit order has to be changed. Unit 5 in Design of Machine Elements has been changed to Design of Bearings | <p>Implemented</p> <p>Implemented</p> <p>Implemented</p> <p>Implemented</p> |

| | | | | |
|----|---------------|--|---|--|
| 5. | Mr.R.Madhavan | Asst Prof, Dept of Automobile Engg,Karpagam Academy of Higher Education | <ul style="list-style-type: none"> • Vehicle Design Data Book should be added separately • Machine Time Calculation and Cost Estimation unit in Manufacturing Technology subject can be merged with second unit • Open Elective subject Automotive Component Manufacturing may be changed to Basics of Two and Three Wheeler Technology. | <p>Implemented</p> <p>Implemented</p> <p>Implemented</p> |
|----|---------------|--|---|--|

The overall percentage in syllabus is 56 %



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Faculty of Engineering

DEPARTMENT OF CIVIL ENGINEERING

Minutes of The Meeting of Board of Studies 2015- 2016

Minutes of the meeting of be board of students Civil Engineering hold on 16/04/2015 at 10.00AM

MEMBERS:

1) Dr.R.Sundararajan
Dean (NCB)
Faculty of Engineering
KarpagamAcademy of Higher Education
Coimbatore – 641 021

2) Mr.N.Balasundaram
Assistant Professor and HoD Civil
Dept of Civil Engineering
Faculty of Engineering
KarpagamAcademy of Higher Education
Coimbatore – 641 021

3) Dr.M.Natarajan
Associate Professor
Dept of Civil Engineering
Faculty of Engineering
KarpagamAcademy of Higher Education
Coimbatore – 641 021

4) Mr.V.Venugopalan
Assistant Professor
Dept of Civil Engineering
Faculty of Engineering
KarpagamAcademy of Higher Education
Coimbatore – 641 021

5) Dr.G.S.Venkata Subramanian
Consulting Civil Engineer

Chartered Civil Engineer of approved Valuer
Structural Engineer
Coimbatore- 38

The chair person welcomed the members of the board. The Board carefully scrutinized the draft syllabus and after detailed discussion the following resolutions were passed. The minutes discussed in the BOS are listed below.

1) B.E - Civil Engineering

1) Construction Materials and Engineering Geology subjects are combined and included in the third Semester as a single subject in the name of Construction Materials and Geology with code 15BECE302.

2) Water Resources Engineering I and Water Resources Engineering II subjects are combined and included as a single subject in the fourth semester.

3) Computer Aided Design Laboratory with code 15BECE611 was introduced in sixth semester.

4) A course in the name of planning and Execution of Civil Projects was introduced in sixth semester as a value added course with code 15BECE651.

5) The syllabus for Basic Civil Engineering subject offered by Civil Department to other department was also discussed and updated

6) The courses offered in the Curriculum are formulated by considering the aspects of Employability, Entrepreneurship and Skill Development.

7) Invariably in all the courses two units has been changed considering employability, entrepreneurship and skill development.

| S.No | Course code | Course Name | Changes made |
|------|-------------|----------------------------------|--------------------------------------|
| 1. | 15BECE301 | Methods of Applied Mathematics | Changes were made in IV and V units. |
| 2. | 15BECE302 | Construction Materials & Geology | Changes were made in IV and V units. |
| 3. | 15BECE303 | Mechanics of Fluids | Changes were made in IV and V units. |
| 4. | 15BECE304 | Engineering Mechanics | Changes were made in IV and V units. |
| 5. | 15BECE305 | Surveying I | Changes were made in IV and V units. |
| 6. | 15BECE401 | Water Resources Engineering | Changes were made in IV and V units. |
| 7. | 15BECE402 | Soil Mechanics | Changes were made in IV and V units. |
| 8. | 15BECE403 | Mechanics of Solids | Changes were made in IV and V units. |

| | | | |
|-----|------------|--|--------------------------------------|
| | | - I | |
| 9. | 15BECE404 | Applied Hydraulics and machinery | Changes were made in IV and V units. |
| 10. | 15BECE405 | Surveying – II | Changes were made in IV and V units. |
| 11. | 15BECE406 | Environmental Engineering I | Changes were made in IV and V units. |
| 12. | 15BECE501 | Environmental Engineering II | Changes were made in IV and V units. |
| 13. | 15BECE502 | Foundation Engineering | Changes were made in IV and V units. |
| 14. | 15BECE503 | Mechanics of Solids – II | Changes were made in IV and V units. |
| 15. | 15BECE504 | Structural Analysis – I | Changes were made in IV and V units. |
| 16. | 15BECE601 | Concrete Technology | Changes were made in IV and V units. |
| 17. | 15BECE602 | Structural Analysis – II | Changes were made in IV and V units. |
| 18. | 15BECE603 | Design of Steel Structures | Changes were made in IV and V units. |
| 19. | 15BECE604 | Design of RC Structures-I | Changes were made in IV and V units. |
| 20. | 15BECE702 | Design of RC Structures-II | Changes were made in IV and V units. |
| 21. | 15BECE703 | Estimation and Quantity Surveying | Changes were made in IV and V units. |
| 22. | 15BECE801 | Pre-stressed Concrete Structures | Changes were made in IV and V units. |
| 23. | 15BECE5E01 | Hydrology | Changes were made in IV and V units. |
| 24. | 15BECE5E02 | Ground water Engineering | Changes were made in IV and V units. |
| 25. | 15BECE5E03 | Cartography | Changes were made in IV and V units. |
| 26. | 15BECE5E04 | Transportation Engineering | Changes were made in IV and V units. |
| 27. | 15BECE6E01 | Highway Engineering | Changes were made in IV and V units. |
| 28. | 15BECE6E02 | Design of biological treatment systems | Changes were made in IV and V units. |
| 29. | 15BECE6E03 | Ground Improvement Techniques | Changes were made in IV and V units. |
| 30. | 15BECE6E04 | Irrigation Engineering | Changes were made in IV and V units. |
| 31. | 15BECE6E05 | Structural Dynamics | Changes were made in IV and V units. |
| 32. | 15BECE6E06 | Urban Water Resource Management | Changes were made in IV and V units. |

| | | | |
|-----|------------|--|--------------------------------------|
| 33. | 15BECE6E07 | Remote sensing Techniques and Applications | Changes were made in IV and V units. |
| 34. | 15BECE6E08 | Soil Pollution Engineering | Changes were made in IV and V units. |
| 35. | 15BECE6E09 | Railways, Airports and Harbours | Changes were made in IV and V units. |
| 36. | 15BECE7E01 | Bridge Structures | Changes were made in IV and V units. |
| 37. | 15BECE7E02 | Tall Buildings | Changes were made in IV and V units. |
| 38. | 15BECE7E03 | Prefabricated Structures | Changes were made in IV and V units. |
| 39. | 15BECE7E04 | Smart Structures and smart Materials | Changes were made in IV and V units. |
| 40. | 15BECE7E05 | Finite Element Techniques | Changes were made in IV and V units. |
| 41. | 15BECE7E06 | Municipal Solid Waste Management | Changes were made in IV and V units. |
| 42. | 15BECE7E07 | Geographical Information System | Changes were made in IV and V units. |
| 43. | 15BECE7E08 | Construction resource Planning and Management | Changes were made in IV and V units. |
| 44. | 15BECE8E01 | Industrial Structures | Changes were made in IV and V units. |
| 45. | 15BECE8E02 | Seismic Design of Reinforced Concrete Structures | Changes were made in IV and V units. |
| 46. | 15BECE8E03 | Introduction to Soil Dynamics and Machine Foundations | Changes were made in IV and V units. |
| 47. | 15BECE8E04 | Repair And Rehabilitation Of Structures | Changes were made in IV and V units. |
| 48. | 15BECE8E05 | Environmental Impact assessment of Water resources development | Changes were made in IV and V units. |
| 49. | 15BECE8E06 | Industrial Waste Management | Changes were made in IV and V units. |
| 50. | 15BECE8E07 | Air Pollution Management | Changes were made in IV and V units. |
| 51. | 15BECE8E08 | Construction Management | Changes were made in IV and V units. |
| 52. | 15BECE8E09 | Traffic Engineering and management | Changes were made in IV and V units. |

The UG Programme B.E-Civil Engineering consists of 69 courses out of which 24 courses are offered by other departments. There is a syllabus change in 45 courses and hence total change= $(33/45)*100=73.33\%$

There is no change in Ph.D syllabus

The BOS meeting was concluded at 04:30PM with the vote of thanks by the chair person Dr. R.Sundararajan.

Remarks:

Substantial changes in the content have been brought in **B.E-Civil Engineering** in consonance with changes taking to the respective field and in fact. These courses are tantamount to new courses. All the courses in all programmes focus on employability, entrepreneurship and skill development.

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BOS Meeting Minutes

Minutes of the meeting of the Board of Studies in Computer Science and Engineering held on 18.04.2015 at 10.00 am in the Department of Computer Science and Engineering at KarpagamAcademy of Higher Education. The Board carefully scrutinized the draft syllabus / syllabi and after detailed discussion the following resolutions were passed.

Members Present :

1. Dr.M.Mohanapriya (Chair Person)

Faculty of Engineering/KAHE

2. Dr.LathaParameswaran

Chair Person Professor

Department Of Computer Science School Of Engineering

Amrita University Coimbatore 112

3. Mr.R.Santhosh

Faculty Of Engineering/KU

4. Mr.B.Arunkumar

Faculty Of Engineering/KU

5. Mr.S.Shahul Hammed

Faculty Of Engineering/KU

6. Mr.T.Mohanraj

Faculty Of Engineering/KU

7. Ms.K.Sundareswari(Alumni)

Faculty of Engineering/KAHE

The Chairperson Welcomed The Member Of The Board. The Board Carefully Scrutinized the Draft Syllabus/Syllabi and approved the same with necessary modifications.

Agenda: 1

1 To consider and approve the Regulations and Syllabus for B.E Computer Science and Engineering for the academic year 2015-16.

Resolution: 1

The Chairperson has agreed that following changes may be included in the curriculum.

The courses introduced are:

| S.No. | Course Code | Course Name |
|--------------|--------------------|---|
| 1 | 15BECS304 | Object Oriented Programming with Java |
| 2 | 15BECS311 | Object Oriented Programming with Java Lab |
| 3 | 15BECS305 | Basics of Electrical Engineering |
| 4 | 15BECS401 | Database Management Systems |
| 5 | 15BECS413 | Database Management Systems Lab |
| 6 | 15BECC412 | Scientific Computing Lab |
| 7 | 15BECS504 | Formal Languages and Automata |
| 8 | 15BECS612 | Case Tools Lab |
| 9 | 15BECS701 | Professional Ethics |
| 10 | 15BECS702 | Web Technology |
| 11 | 15BECS712 | Web Technology Lab |
| 12 | 15BECS703 | Open Source Software |
| 13 | 15BECS711 | Open Source Software Lab |
| 14 | 15BECS713 | Mobile Application Development Lab |

The electives introduced are:

| S.No. | Course Code | Course Name |
|--------------|--------------------|--------------------------|
| 1 | 15BECS5E01 | C++ Programming |
| 2 | 15BECS5E03 | Advanced Data Structures |
| 3 | 15BECS6E02 | Distributed Computing |
| 4 | 15BECS6E03 | C# and.NET |

| | | |
|----|------------|--|
| 5 | 15BECS6E05 | Network Routing Algorithms |
| 6 | 15BECS6E06 | Data Mining and Data Warehousing |
| 7 | 15BECS6E08 | Visual Programming |
| 8 | 15BECS7E01 | Ad Hoc Networks |
| 9 | 15BECS7E02 | Cloud Computing |
| 10 | 15BECS8E01 | Managing Big Data |
| 11 | 15BECS8E02 | Wireless Sensor Networks |
| 12 | 15BECS8E03 | Human Computer Interaction |
| 13 | 15BECS8E05 | Mobile and Pervasive Computing |
| 14 | 15BECS8E06 | Semantic Web |
| 15 | 15BECS8E08 | Service Oriented Architecture |
| 16 | 15BECS8E09 | Software Metrics and Software Project Management |

The changes in the existing courses are:

| S.No. | Course Code | Course Name | Changes Introduced |
|-------|-------------|--|----------------------------|
| 1 | 15BECS302 | Data Structures | Unit I and II changed |
| 2 | 15BECS303 | Digital Principles and System Design | Unit II and III changed |
| 3 | 15BECS401 | Database Management Systems | Unit III and IV changed |
| 4 | 15BECS402 | Computer Architecture | Unit I and V changed |
| 5 | 15BECS403 | System Software | Unit IV and V changed |
| 6 | 15BECS404 | Advanced Java Programming | Unit IV and V changed |
| 7 | 15BECS405 | Design and Analysis of Algorithms | Unit III and IV changed |
| 8 | 15BECS502 | Microprocessors & Micro controllers | Unit IV and V changed |
| 9 | 15BECS503 | Computer Networks | Unit I, II and III changed |
| 10 | 15BECC601 | Engineering Economics and Financial Management | Unit II and III changed |
| 11 | 15BECS602 | Software Engineering | Unit IV and V changed |
| 12 | 15BECS603 | Compiler Design | Unit IV and V changed |
| 13 | 15BECS604 | Graphics and Multimedia | Unit I and IV changed |
| 14 | 15BECS701 | Professional Ethics | Unit IV and V changed |
| 15 | 15BECS5E02 | Advanced Databases | Unit I and II changed |
| 16 | 15BECS5E04 | Advanced Computer Architecture | Unit IV and V changed |
| 17 | 15BECS6E03 | C# and .NET | Unit IV and V changed |

| | | | |
|----|------------|------------------------------------|-------------------------------|
| 18 | 15BECS6E04 | Analog and Digital Communication | Unit IV and V changed |
| 19 | 15BECS6E06 | Data Mining and Data Warehousing | Unit I, III, IV and V changed |
| 20 | 15BECS6E07 | User Interface Design | Unit IV and V changed |
| 21 | 15BECS7E04 | Software Testing | Unit IV and V changed |
| 22 | 15BECS8E07 | UNIX Internals | Unit I and V changed |
| 23 | 15BECS8E10 | Information Storage and Management | Unit IV and V changed |
| 24 | 15BECS8E11 | Information Security | Unit IV and V changed |
| 25 | 15BECS8E12 | Natural Language Processing | Unit I and II changed |

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 79 courses. The change in the content of the syllabus is 81.77%.

Resolved to approve the Regulations and Syllabus for B.E Computer science and Engineering programme and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure-I).

Agenda: II

To consider and approve the Regulations and Syllabus for Ph.D programme in Computer Science and Engineering

Resolution: II

The following courses may be included in the curriculum:

Courses offered for Paper I

| S.No | Course Code | Course Name |
|------|-------------|-----------------------------------|
| 1. | 15RCSE101 | Research Methodology and pedagogy |

Courses offered for Paper II:

| S.No | Course Code | Course Name |
|------|-------------|-----------------------------------|
| 2. | 15RCSE201 | Soft Computing |
| 3. | 15RCSE202 | Digital Image Processing |
| 4. | 15RCSE203 | Cryptography and network Security |
| 5. | 15RCSE204 | Data warehousing and Data Mining |

| | | |
|----|-----------|---------------------------------|
| 6. | 15RCSE205 | Agent Based Intelligent Systems |
| 7. | 15RCSE206 | Network Routing Algorithms |

Courses offered for Paper III:

| S.No | Course Code | Course Name |
|------|-------------|---|
| 8. | 15RCSE301 | Ad hoc Networks |
| 9. | 15RCSE302 | Big Data |
| 10. | 15RCSE303 | Performance Evaluation of Computer Systems and Networks |
| 11. | 15RCSE304 | Distributed Computing |
| 12. | 15RCSE305 | Component Based Technology |
| 13. | 15RCSE306 | XML and Web Services |
| 14. | 15RCSE307 | Fuzzy Logic, Neural Networks And Applications |
| 15. | 15RCSE308 | Ontology and Semantic Networks |
| 16. | 15RCSE309 | Visualization Techniques |
| 17. | 15RCSE310 | Virtualization Techniques |
| 18. | 15RCSE311 | Grid Computing |
| 19. | 15RCSE312 | Advanced Database |
| 20. | 15RCSE313 | Embedded Systems |
| 21. | 15RCSE314 | Cloud Computing |

Total number of courses present during the year 2015-16 =21

As all the courses were introduced in 2015-16 syllabus, Percentage change in the syllabi = $21/21 \times 100 = 100\%$

Resolved to approve the Regulations and Syllabus for Ph.D programme in Computer Science Engineering and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure).

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

BOS (2015-2016)

Minutes of Board of Studies:

Minutes of meeting of the board of studies in ECE department held on 13.04.2015 at 10.00 AM in the VLSI lab in FOE of Karpagam University

Members present

1. Dr S.Bhavani, Prof & HOD/ECE Karpagam University (Chairperson)
2. Dr D.Shriramkumar , Asso. Prof ECE, National Institute of Technology, Trichy
3. Mrs N.Kavitha, steps knowledge service, Cbe
4. Prof.Muthuraman Ramasamy, Prof/ECE, Karpagam University
5. Dr P.Manimegalai, Prof/ECE, Karpagam University
6. Dr S.Kamalraj, Asso Prof/ECE, Karpagam University
7. Mr.Nandhakumar, AP/ECE, Karpagam University
8. Mr Yasar Arafath , AP/ECE, Karpagam University

The Chairperson welcomed the members of the board of studies. The BoS committee scrutinized the drafted syllabus of the following programmes and the following resolutions were passed

Agenda 1:

To consider and approve modification of curriculum and syllabus for B.E Electronics and Communication Engineering for the Academic Year 2015-16

Resolution 1:

Resolved to modify curriculum and syllabus for BE Electronics and Communication Engineering for academic year 2015-16 (Approved changes in syllabus is given in **Annexure I**)

Annexure I:

| Sl. No | Course Code | Course Name | Changes Made |
|--------|-------------|---|--|
| 1 | 15BECC102 | Engineering Mathematics – I | Changes has been made in unit 2, 3 ,4 and 5 |
| 2 | 15BECC103 | Engineering Physics | Changes has been made in unit5 |
| 3 | 15BECC104 | Engineering Chemistr y | Changes has been made in unit 3 and 5 |
| 4 | 15BEEC112 | Computer Practice and Programming Laborator y | Changes has been made in all the experiments |
| 5 | 15BEEC113 | Engineering Graphics | Changes has been made in unit 4 and 5 |
| 6 | 15BECC202 | Engineering Mathematics – II | Changes has been made in unit 1 and 2 |
| 7 | 15BECC204 | Environmental Studies | Changes has been made in all the units |
| 8 | 15BEEC205 | Electron Devices | Changes has been made in unit 1 ,2, 3 and 5 |
| 9 | 15BEEC206 | Basic Electrical Engineering | Changes has been made in unit 2, 3, 4 and 5 |
| 10 | 15BEEC211 | Engineering practice Laboratory | Changes has been made in 5 experiments |
| 11 | 15BEEC212 | Electron Devices Laboratory | Changes has been made in 7 experiments |

| | | | |
|----|------------|--|---|
| 12 | 15BECC301 | Method of Applied Mathematics | Changes has been made in unit 1 |
| 13 | 15BEEC302 | Circuit Theory | Changes has been made in unit 3 ,4 and 5 |
| 14 | 15BEEC303 | Digital Electronics | Changes has been made in unit 1 and 4 |
| 15 | 15BEEC304 | Electromagnetic Theory and Waveguides | Changes has been made in unit 1, 4 and 5 |
| 16 | 15BEEC305 | Signals and Systems | Changes has been made in unit 3 |
| 17 | 15BEEC312 | Digital Electronics Laboratory | Changes has been made in 4 experiments |
| 18 | 15BEEC313 | Electrical Machines Laboratory | Changes has been made in 2 experiments |
| 19 | 15BEEC351 | Yoga | Has been Included in the Syllabus as VAC |
| 20 | 15BEEC401 | Electronic circuits | Changes has been made in unit 1,3, 4 and 5 |
| | 15BEEC402 | Control Systems | Changes has been made in unit 4 and 5 |
| 21 | 15BEEC403 | Linear Integrated Circuits | Changes has been made in unit 3 and 4 |
| 22 | 15BEEC404 | Transmission Lines and Networks | Changes has been made in unit 2,3,4 and 5 |
| 23 | 15BEEC405 | Communication Theory | Changes has been made in unit 3 , 4 and 5 |
| 24 | 15BEEC411 | Electronic Circuits and Simulation Laboratory | Changes has been made in 2 experiments |
| 25 | 15BECC412 | Scientific Computing Laboratory | Has been Included in the Syllabus as new course |
| 26 | 15BEEC413 | Linear Integrated Circuits Laboratory | Changes has been made in 3 experiments |
| 27 | 15BEEC452 | Foreign Language | Has been Included in the Syllabus as VAC |
| 28 | 15BEEC501 | Microprocessor and Microcontrollers | Changes has been made in unit 4 |
| 29 | 15BEEC502 | Digital Communication | Changes has been made in unit 1,2 and 5 |
| 30 | 15BEEC503 | Digital Signal Processing | Changes has been made in unit 1,2,3, and 5 |
| 31 | 15BEEC504 | Antennas and Wave Propagation | Changes has been made in unit 2 and 4 |
| 32 | 15BEEC5E01 | Medical Electronics | Changes has been made in unit 2 |
| 33 | 15BEEC512 | Microprocessor and Microcontrollers Laboratory | Changes has been made in 2 experiments |
| 34 | 15BEEC513 | Communication Systems Laboratory | Changes has been made in 2 experiments |
| 35 | 15BEEC601 | Microwave Wave Engineering | Changes has been made in unit 1 and 4 |
| 36 | 15BEEC602 | Computer Networks | Changes has been made in unit 1 and 2 |
| 37 | 15BEEC603 | Mobile Communication | Changes has been made in unit 3 and 5 |

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|----|------------|---|---|
| 38 | 15BEEC604 | Engineering Economics and Financial Management | Changes has been made in unit 4 and 5 |
| 39 | 15BEEC6E02 | Digital Logic Design using CPLDs and HDL | Has been Included in the Syllabus as new course |
| 40 | 15BEEC6E03 | Sensors and Transducers | Has been Included in the Syllabus as new course |
| 41 | 15BEEC611 | Networks Laboratory | Changes has been made in 3 experiments |
| 42 | 15BEEC612 | Microwave Laboratory | Changes has been made in 8 experiments |
| 43 | 15BEEC651 | Analog System Design using ASLK PRO/ ARM cortex M4 / Mixed Signal Microcontroller | Has been Included in the Syllabus as VAC |
| 44 | 15BEEC701 | Professional Ethics | Changes has been made in unit 1,2 and 4 |
| 45 | 15BEEC702 | VLSI Design | Changes has been made in unit 2, 3 and 5 |
| 46 | 15BEEC703 | Optical communication | Changes has been made in unit 1 and 5 |
| 47 | 15BECC7OE1 | Renewable Energy Resources | Has been Included in the Syllabus as new course |
| 48 | 15BEEC711 | VLSI Design Laboratory | Changes has been made in 2 experiments |
| 49 | 15BEEC712 | Electronic System Design Laboratory | Changes has been made in 2 experiments |
| 50 | 15BEEC713 | Optical Laboratory | Changes has been made in 8 experiments |
| 51 | 15BEEC751 | VLSI Design Using Cadence Tool | Has been Included in the Syllabus as VAC |
| 52 | 15BEEC8E05 | ASIC Design | Has been Included in the Syllabus as new course |
| 53 | 15BEEC8E06 | Digital Image Processing | Changes has been made in unit 1 and 3 |
| 54 | 15BEEC8E07 | Computer Hardware and Interfacing | Changes has been made in unit 4 and 5 |
| 55 | 15BEEC5E04 | Data Structures and Algorithms | Has been Included in the Syllabus as new course |
| 56 | 15BEEC5E05 | Probability and Random Process | Changes has been made in unit 1 and 3 |
| 57 | 15BEEC7E15 | Virtual Instrumentation using Lab View | Changes has been made in unit 4 and 5 |
| 58 | 15BEEC7E21 | Radar and Navigation Aids | Changes has been made in unit 3, 4 and 5 |
| 59 | 15BEEC7E22 | Embedded Systems | Changes has been made in unit 3, 4 and 5 |
| 60 | 15BEEC8E26 | Artificial Intelligence | Has been Included in the Syllabus as new course |
| 61 | 15BEEC8E34 | Artificial Neural Networks | Has been Included in the Syllabus as new course |
| 62 | 15BEEC8E24 | Cellular Mobile Communication | Has been Included in the Syllabus as new course |
| 63 | 15BEEC8E35 | FPGA Design | Has been Included in the Syllabus as new course |
| 64 | 15BEEC8E37 | Nano Electronics | Changes has been made in unit 2, 3, 4 and 5 |

The meeting came to an end with vote of thanks by chairperson Dr.S.Bhavani, Professor and Head of ECE Department

The UG program BE- Electronics and Communication Engineering consists of 70 Courses in which 45.17 % syllabus change has been incorporated.

The Ph.D program in ECE for Academic year 2015-16 there is a syllabus change in 1 course and Hence the total change is 5%

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

16-04-2015

Minutes of the meeting of the Board of Studies in **2015-2016** held on **16-04-2015** 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,
KARPAGAM ACADEMY OF HIGHER EDUCATION, COIMBATORE.
2. Prof. S. KUPPUSAMY,
ASSOCIATE PROFESSOR, EEE DEPARTMENT,
KARPAGAM ACADEMY OF HIGHER EDUCATION, COIMBATORE.
3. Prof. K. BALACHANDER,
ASSOCIATE PROFESSOR, EEE DEPARTMENT,
KARPAGAM ACADEMY OF HIGHER EDUCATION, COIMBATORE.
4. Prof. T. RAMESH,
ASSISTANT PROFESSOR, EEE DEPARTMENT,
KARPAGAM ACADEMY OF HIGHER EDUCATION, COIMBATORE.
5. Prof. R. VICTOR MANO,
ASSISTANT PROFESSOR, EEE DEPARTMENT,
KARPAGAM ACADEMY OF HIGHER EDUCATION, COIMBATORE.
6. Dr. S. BALAMURUGAN,
ASSOCIATE PROFESSOR, EEE DEPARTMENT,
AMRITA UNIVERSITY, 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 following programme.

- B.E (Electrical and Electronics Engineering)

Resolution: 1

Resolved to approve the Regulations and Syllabus for BE (EEE) programme and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure-I).

New Courses introduced

| S. No. | Course Code | Name of the Course |
|--------|-------------|---|
| 1. | 15BECC151 | Human Values |
| 2. | 15BECC251 | Elementary Biology |
| 3. | 15BEEE205 | Analysis of Electric Circuits |
| 4. | 15BEEE212 | Electric Circuits Laboratory |
| 5. | 15BEEE305 | Renewable Energy Sources |
| 6. | 15BEEE313 | Introduction to Electrical System Software Laboratory |
| 7. | 15BEEE351 | YOGA/NSS |
| 8. | 15BEEE412 | Scientific Computing Laboratory |
| 9. | 15BEEE452 | Foreign Language (German,Japanese)/Hindi |
| 10. | 15BEEE5E-- | Department Elective –VI,VII,VIII,IV |
| 11. | 15BEEE5E-- | Department Elective –VII |
| 12. | 15BEEE5E-- | Department Elective –VIII |
| 13. | 15BEEE5E-- | Department Elective –IV |
| 14. | 15BEEE513 | Measurements and Instrumentation Laboratory |
| 15. | 15BEEE552 | Mini Project |
| 16. | 15BEEE652 | Mobile Servicing |
| 17. | 15BE__7OE__ | Open Elective |
| 18. | 15BEEE713 | Electrical Drives Lab |
| 19. | 15BEEE711 | Control and Maintenance Lab |
| 20. | 15BEEE752 | ETAP AND PSCAD |

The electives introduced are:

| S. No. | Course Code | Name of the Course |
|--------|-------------|---------------------------------|
| 1. | 15BEEE5E01 | Network Analysis and Synthesis |
| 2. | 15BEEE5E03 | Power Plant Engineering |
| 3. | 15BEEE5E04 | Communication Engineering |
| 4. | 15BEEE5E05 | Introduction to Neural Networks |
| 5. | 15BEEE6E01 | Computer Architecture |
| 6. | 15BEEE6E03 | Distributed Generation |
| 7. | 15BEEE6E07 | Digital Signal Processing |
| 8. | 15BEEE7E01 | Computer Networks |
| 9. | 15BEEE7E05 | Sensor and Transducer |
| 10. | 15BEEE7E06 | HVDC and EHVAC |
| 11. | 15BEEE7E07 | Switched Mode Power Conversion |
| 12. | 15BEEE7E09 | PLC and Industrial Automation |

| | | |
|-----|------------|--|
| 13. | 15BEEE7E10 | Microcontroller Based System Design |
| 14. | 15BEEE8E02 | Smart Grid |
| 15. | 15BEEE8E06 | Intellectual Property Rights |
| 16. | 15BEEE8E09 | Industrial Automation |
| 17. | 15BEEE8E10 | Computer Aided Analysis & Design of Electrical Apparatus |
| 18. | 15BEEE8E13 | Power Generation Systems |
| 19. | 15BEEE8E14 | Modern Semiconductor Devices |
| 20. | 15BEEE8E15 | Optimization Techniques |
| 21. | 15BEEE8E16 | Real Time Operating System |
| 22. | 15BEEE8E17 | Advances in Soft Computing |
| 23. | 15BEEE8E18 | Digital System Design using VHDL |

The changes in the existing courses are:

| S. No. | Course Code | Name of the Course | Changes Introduced in |
|--------|-------------|---|----------------------------|
| 1. | 15BEEE401 | Electrical Machines II | Unit I, III and IV changed |
| 2. | 15BEEE411 | Electrical Machines II Lab | All Experiment |
| 3. | 15BECC103 | Engg. Physics | Unit IV&V changed |
| 4. | 15BEEE504 | Microprocessor and Microcontroller | Unit V changed |
| 5. | 15BECC104 | Engineering Chemistry | Unit III and V changed |
| 6. | 15BECC202 | Engg. Mathematics-II | Unit I and II changed |
| 7. | 15BEEE403 | Control Systems Engg. | Unit I, III and IV changed |
| 8. | 15BECC203 | Material Science | All 5 units changed |
| 9. | 15BEEE303 | Electromagnetic Theory | Unit II to V |
| 10. | 15BECC204 | Environmental Sciences | Unit II and V |
| 11. | 15BEEE402 | Transmission and Distribution Systems | Unit I and II |
| 12. | 15BEEE404 | Digital Logic Circuits | Unit VI and V |
| 13. | 15BEEE405 | Measurements & Instrumentation | Unit I and V |
| 14. | 15BEEE501 | Power Electronics | Unit VI and V |
| 15. | 15BEEE502 | Power System Analysis | Unit I and V |
| 16. | 15BEEE503 | Linear Integrated Circuits | Unit II and VI |
| 17. | 15BEEE512 | Analog and Digital Lab | All Experiments |
| 18. | 15BEEE601 | Solid State Drives | Unit II and V |
| 19. | 15BEEE602 | Power System Operation and Control | Unit II and VI |
| 20. | 15BEEE703 | Design of Electrical Machines | Unit II and VI |
| 21. | 15BEEE603 | Energy Management, Utilization and Auditing | Unit All units |
| 22. | 15BECC102 | Engg. Mathematics - I | Unit II-V |
| 23. | 15BEEE112 | Computer Practice and Programming Laboratory | 3 Experiments |
| 24. | 15BEEE451 | Technical Seminar/English Communication Skill | Unit VI and V |

| | | | |
|-----|-----------|---|-----------------|
| 25. | 15BEEE105 | Computer Fundamentals and C Programming | All units |
| 26. | 15BEEE304 | Electronic Devices and Circuits | Unit II-V |
| 27. | 15BEEE712 | Electrical Estimation and Rewinding Lab | All Experiments |

Agenda: 2

To consider and approve the Regulations and Syllabus for Ph.D programme in Electrical and Electronics Engineering

Resolution: 2

Resolved to approve the Regulations and Syllabus for Ph.D programme in Electrical and Electronics Engineering and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure). There is no syllabus changes.

The UG programme B.E. Electrical and Electronic Engineering Consists of 71 courses out of which 22 courses come under the category of Science and Humanities, Management and Allied Engineering courses . There is a syllabus change in 47 course and hence total change = 66.19%

The Ph.d programme consists of 11 courses out of which 01 courses come under the MBA department courses . The total percentage changes is 45 %.

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

BOS (2015 - 2016)

Minutes of Board of Studies:

Minutes of the meeting of the board of studies in Mechanical Engineering held on **17.04.2015** at 09.30am.

MEMBERS PRESENT

1. Prof. E.Baburaj, HoD /Mechanical Engineering, KAHE
2. Mr. K. Subramani, General Manager – Quality Engineer, Pricol Ltd., Coimbatore.
3. Dr. P. Senthil, Prof. / Mechanical Engineering, KAHE
4. Mr. A. Sivanantham, Asso. Prof. /Mechanical Engineering, KAHE
5. Mr. R. Karuppasamy, AP/Mechanical Engineering, KAHE

The chair person welcomed the members of the board of studies. The BoS committee scrutinized the drafted syllabus of the following programmes and the following resolutions were passed.

Agenda 1:

To considered and approve modification of curriculum and syllabus for B.E Mechanical Engineering for the Academic Year 2015 – 16.

Resolution 1:

Resolved to modify curriculum and syllabus for B.E Mechanical Engineering for the Academic Year 2015 – 16 (Approved changes in syllabus is given in **Annexure I**).

Annexure I:

For UG courses the following suggestions were given

The following changes are made in the UG B.E Mechanical Engineering based on the local and global needs. Employability, Entrepreneurship and Skill Development aspects have been taken care off. They are considered as new courses. All the courses are formed based on Choice Based Credit System (CBCS).

| Sl. No | Course Code | Course Name | Changes Made |
|--------|-------------|--|---|
| 1 | 15BEME301 | Methods of Applied Mathematics | Changes has been made in units 1 and 3 |
| 2 | 15BEME302 | Engineering Mechanics | Changes has been made in units 4 and 5 |
| 3 | 15BEME303 | Manufacturing Technology – I | Changes has been made in units 3 and 4 |
| 4 | 15BEME304 | Fluid Mechanics and Machinery | Changes has been made in units 1 and 3 |
| 5 | 15BEME305 | Electrical Drives and Controls | Changes has been made in units 2 and 4 |
| 6 | 15BEME311 | Fluid Mechanics and Machinery Laboratory | Changes have been made in 6 th and 8 th number of experiments. |
| 7 | 15BEME312 | Machine Drawing | Changes have been made in 3 rd and 4 th number of experiments. |
| 8 | 15BEME313 | Electrical Drives and Control Laboratory | Changes have been made in 7 th and 10 th number of experiments. |
| 9 | 15BEME401 | Strength of Materials | Changes has been made in units 3 and 5 |

| | | | |
|----|------------|--|---|
| 10 | 15BEME402 | Manufacturing Technology – II | Changes has been made in units 3 and 4 |
| 11 | 15BEME403 | Engineering Thermodynamics | Changes has been made in units 2 and 4 |
| 12 | 15BEME404 | Industrial Metallurgy | Changes has been made in units 4 and 5 |
| 13 | 15BEME405 | Kinematics of Machinery | Changes has been made in units 2 and 4 |
| 14 | 15BEME406 | Engineering Metrology and Measurements | Changes has been made in units 3 and 4 |
| 15 | 15BEME411 | Strength of Materials and Metallurgy Laboratory | Changes have been made in 9 th and 10 th number of experiments. |
| 16 | 15BEME412 | Manufacturing Technology Laboratory | Changes have been made in 6 th and 7 th number of experiments. |
| 17 | 15BEME501 | Heat Power Engineering | Changes has been made in units 4 and 5 |
| 18 | 15BEME502 | Design of Machine Elements | Changes has been made in units 2 and 4 |
| 19 | 15BEME503 | Automobile Engineering | Changes has been made in units 2 and 3 |
| 20 | 15BEME504 | Dynamics of Machinery | Changes has been made in units 2 and 4 |
| 21 | 15BEME511 | Scientific Computing Laboratory | New Course |
| 22 | 15BEME512 | Dynamics and Metrology Laboratory | Changes have been made in 9 th and 10 th number of experiments. |
| 23 | 15BEME513 | Thermal Engineering Laboratory– I | Changes have been made in 5 th and 10 th number of experiments. |
| 24 | 15BEME601 | Operations Research | Changes has been made in units 1 and 5 |
| 25 | 15BEME602 | Design of Transmission System | Changes has been made in units 4 and 5 |
| 26 | 15BEME603 | Heat and Mass Transfer | Changes has been made in units 2 and 4 |
| 27 | 15BEME604 | Engineering Economics and Financial Management | Changes has been made in units 3 and 4 |
| 28 | 15BEME611 | Computer Aided Modeling and Simulation Laboratory | Changes have been made in 6 th , 7 th , 8 th , 9 th and 10 th number of experiments. |
| 29 | 15BEME612 | Thermal Engineering Laboratory II | Changes have been made in 6 th and 10 th number of experiments. |
| 30 | 15BEME701 | Professional Ethics, Principles of Management and Entrepreneurship Development | Changes has been made in units 2 and 3 |
| 31 | 15BEME702 | Finite Element Methods | Changes has been made in units 2 and 4 |
| 32 | 15BEME703 | Mechatronic Systems | Changes has been made in units 3 and 4 |
| 33 | 15BEME711 | CAE / CAM Laboratory | Changes have been made in 6 th and 10 th number of experiments. |
| 34 | 15BEME712 | Mechatronics Laboratory | Changes have been made in 10 th , 11 th and 12 th number of experiments. |
| 35 | 15BEME801 | Total Quality Management | Changes has been made in units 2 and 3 |
| 36 | 15BEME5E01 | Computer Aided Design | New Course |
| 37 | 15BEME5E02 | Computer Integrated Manufacturing | Changes has been made in units 4 and 5 |
| 38 | 15BEME5E03 | Advanced Manufacturing Processes | Changes has been made in units 3 and 5 |
| 39 | 15BEME5E04 | Hydraulics and Pneumatics Power Control | Changes has been made in units 2 and 4 |
| 40 | 15BEME6E01 | Power Plant Engineering | Changes has been made in units 3 and 4 |
| 41 | 15BEME6E02 | Design of Jigs, Fixtures and Press Tools | Changes has been made in units 2 and 4 |
| 42 | 15BEME6E03 | Computational Fluid Dynamics | Changes has been made in units 3 and 5 |
| 43 | 15BEME6E04 | Failure Analysis and Design | New Course |
| 44 | 15BEME6E05 | Renewable Energy Sources | Changes has been made in units 4 and 5 |

| | | | |
|----|------------|--|--|
| 45 | 15BEME6E06 | Precision Engineering | Changes has been made in units 2 and 4 |
| 46 | 15BEME6E07 | Entrepreneurship Development | New Course |
| 47 | 15BEME6E08 | Industrial Engineering | Changes has been made in units 3 and 4 |
| 48 | 15BEME7E01 | Design for Manufacture and Assembly | Changes has been made in units 1 and 2 |
| 49 | 15BEME7E02 | Gas Dynamics and Jet Propulsion | Changes has been made in units 1 and 5 |
| 50 | 15BEME7E03 | Industrial Robotics | Changes has been made in units 3 and 5 |
| 51 | 15BEME7E04 | Design and Analysis of Experiments | New Course |
| 52 | 15BEME7E05 | Advanced I.C. Engines | New Course |
| 53 | 15BEME7E06 | Additive Manufacturing | New Course |
| 54 | 15BEME7E07 | Manufacture and Inspection of Gears | New Course |
| 55 | 15BEME7E08 | Refrigeration and Air Conditioning | Changes has been made in units 2 and 5 |
| 56 | 15BEME8E01 | Machine Tool Design | New Course |
| 57 | 15BEME8E02 | Computer Aided Drafting And Cost Estimation | New Course |
| 58 | 15BEME8E03 | Quality Control and Reliability Engineering | Changes has been made in units 1 and 4 |
| 59 | 15BEME8E04 | Composite Materials | Changes has been made in units 3 and 5 |
| 60 | 15BEME8E05 | Production Planning and Control | Changes has been made in units 4 and 5 |
| 61 | 15BEME8E06 | Cogeneration and Waste Heat Recovery Systems | New Course |
| 62 | 15BEME8E07 | Energy Conservation Methods and Energy Audit | New Course |
| 63 | 15BEME8E08 | Non Destructive Testing | New Course |

The following open electives are newly introduced to other department students

| Sl. No | SUB. CODE | TITLE OF THE COURSE |
|--------|------------|-----------------------------------|
| 1 | 15BEME0E01 | Introduction to MEMS |
| 2 | 15BEME0E02 | Robotics |
| 3 | 15BEME0E03 | Industrial Safety and Environment |
| 4 | 15BEME0E04 | Transport Phenomena |
| 5 | 15BEME0E05 | Introduction to Biomechanics |

The UG programme BE Mechanical Engineering consists of 74 courses out of which 17 courses are in Science and Humanities and other allied engineering courses. The syllabus change is 35%.

Ph. D Syllabi

About ten courses have been removed from the existing 19 courses and two new courses have been added. The change in syllabi content was:

| Sl. No | Course Code | Course Name | Changes Made |
|---------------|--------------------|--|---------------------|
| 1 | 14RME202 | Computational Methods | Removed |
| 2 | 14RME203 | Modeling, Simulation and Analysis | Removed |
| 3 | 14RME301 | Tribology in Design | Removed |
| 4 | 14RME303 | Physics of Solar Engineering | Removed |
| 5 | 14RME304 | Wind Energy Technologies | Removed |
| 6 | 14RME307 | Automotive Systems | Removed |
| 7 | 14RME308 | Lean Manufacturing Tools and Systems | Removed |
| 8 | 14RME309 | Computational Fluid Dynamics | Removed |
| 9 | 14RME310 | Industrial Robotics and Expert Systems | Removed |
| 10 | 14RME313 | Refrigeration System Design | Removed |
| 11 | 15RME204 | Quality Concepts in Design | New Course |
| 12 | 15RME205 | Finite Element Analysis | New Course |

The Ph. Dprogramme(MechanicalEngineering) consists of 11 courses. The syllabus change is 24%.

KARPAGAM ACADEMY OF HIGHER EDUCATION
COIMBATORE – 641 021

Minutes of the meeting of Board of Studies 2015-16

Minutes of the meeting of the Board of Studies of **Department of Biotechnology (B.Tech)** held on **18.04.2015** at **9.45 am** in the **Dean's office, Faculty of Engineering** at Karpagam Academy of Higher Education.

Members Present:

1. Dr. R. Thilagavathi, Associate Professor & Head, Dept. of Biotechnology (B.Tech), FoE, KAHE
2. Dr. P. Rajaguru, Professor & Head, Department of Biotechnology, Anna University BIT campus, Tiruchirappalli.
3. Dr. S. LakshmanaPrabhu, Assistant Professor, Department of Pharmaceutical Technology, Anna University BIT campus, Tiruchirappalli.

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

Agenda:1

To consider and approve the modification of existing Curriculum and Syllabus for **B.Tech Biotechnology** Programme.

Resolution: 1

Resolved to amend the suggestions/ corrections and approve the Curriculum and Syllabus for **B.Tech Biotechnology** Programme and it comes into effect from 2015-16. (Approved Regulations and Syllabus given in **Annexure-I**).

ANNEXURE - I

The following corrections and suggestions may be included in B.Tech (Biotechnology) syllabus (2015-16) based 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. | 15BTCC101 | Communicative English –I | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 2. | 15BTBT102 | Mathematics – I | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 3. | 15BTCC103 | Engineering Physics | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 4. | 15BTCC104 | Engineering Chemistry | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 5. | 15BTCC105 | Basic Electrical and Electronics Engineering | New Course Introduced |
| 6. | 15BTCC111 | Engineering Physics and Chemistry Laboratory | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 7. | 15BTCC112 | Engineering Practice Laboratory | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 8. | 15BTCC113 | Engineering Graphics | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 9. | 15BTCC151 | Human Values | New Course Introduced |
| 10. | 15BTCC201 | Communicative English –II | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 11. | 15BTBT202 | Mathematics – II | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 12. | 15BTCC203 | Material Science | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 13. | 15BTCC204 | Environmental Studies | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 14. | 15BTBT205 | Biochemistry-I | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 15. | 15BTCC206 | Computer Fundamentals and C Programming | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 16. | 15BTCC211 | Computer Practice and Programming Laboratory | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 17. | 15BTBT212 | Biochemistry Laboratory | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 18. | 15BTCC251 | Elementary Biology | New Course Introduced |
| 19. | 15BTBT301 | Principles of Chemical Engineering | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |

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| 20. | 15BTBT302 | Biochemistry-II | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 21. | 15BTBT303 | Cell Biology | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 22. | 15BTBT304 | Microbiology | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 23. | 15BTBT305 | Bio-Organic Chemistry | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 24. | 15BTBT311 | Cell Biology Lab | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 25. | 15BTBT312 | Microbiology Lab | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 26. | 15BTBT313 | Bio-Organic Chemistry Lab | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 27. | 15BTCC351 | Communication Skills Development | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 28. | 15BTBT401 | Probability and Statistics | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 29. | 15BTBT402 | Molecular Biology | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 30. | 15BTBT403 | Chemical Thermodynamics and Bio Thermodynamics | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 31. | 13BTBT404 | Instrumental Methods of analysis | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 32. | 15BTBT405 | Bioprocess Principles | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 33. | 15BTBT406 | Basics of Industrial Biotechnology | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 34. | 15BTBT411 | Instrumental Methods of analysis Lab | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 35. | 15BTBT412 | Molecular Biology Lab | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 36. | 15BTCC451 | Other Languages- Hindi/German/French | New Course Introduced |
| 37. | 15BTBT501 | Unit Operations | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 38. | 15BTBT502 | Bioprocess Engineering | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 39. | 15BTBT503 | Enzymology and Enzyme Technology | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 40. | 15BTBT504 | Bioinformatics | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 41. | 15BTBT511 | Chemical Engineering Lab | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 42. | 15BTBT512 | Bioinformatics Lab | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |

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|-----|------------|--|--|
| 43. | 15BTBT513 | Bioprocess Lab | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 44. | 15BTCC551 | Technical presentation and seminar | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 45. | 15BTBT601 | Mass Transfer Operations | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 46. | 15BTBT602 | Biopharmaceutical technology | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 47. | 15BTBT603 | Genetic Engineering | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 48. | 15BTBT604 | Engineering Economics and Financial management | New Course Introduced |
| 49. | 15BTBT611 | Biopharmaceutical technology Lab | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 50. | 15BTBT612 | Genetic Engineering Lab | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 51. | 15BTBT651 | Computational Resources for Drug Discovery | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 52. | 15BTBT701 | Entrepreneurship development | New Course Introduced |
| 53. | 15BTBT702 | Downstream Processing | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 54. | 15BTBT703 | Immunology | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 55. | 15BTBT704 | Chemical Reaction Engineering | New Course Introduced |
| 56. | 15BTBT711 | Downstream Processing Lab | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 57. | 15BTBT712 | Immunology Lab | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 58. | 15BTBT751 | Separation of Bioactive Compounds from Plant Materials | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 59. | 15BTBT5E01 | Plant Biotechnology | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 60. | 15BTBT5E02 | Entrepreneurship in Biotechnology | New Course Introduced |
| 61. | 15BTBT5E03 | Cancer Biology | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 62. | 15BTBT5E04 | Developmental Biology | New Course Introduced |
| 63. | 15BTBT5E05 | Industrial safety & Hazard Analysis | New Course Introduced |
| 64. | 15BTBT6E01 | Biomass Energy | New Course Introduced |
| 65. | 15BTBT6E02 | Animal Biotechnology | New Course Introduced |
| 66. | 15BTBT6E03 | Biological spectroscopy | New Course Introduced |
| 67. | 15BTBT6E04 | Protein Engineering | New Course Introduced |
| 68. | 15BTBT6E05 | Molecular pathogenesis | Changes has been made in Unit 1, |

| | | | |
|-----|------------|--|--|
| | | | Unit 2, Unit 3, Unit 4 and Unit 5 |
| 69. | 15BTBT6E06 | IPR and Ethical Issues in Biotechnology | New Course Introduced |
| 70. | 15BTBT6E07 | Food Biotechnology | New Course Introduced |
| 71. | 15BTBT6E08 | Process Instrumentation dynamics and control | New Course Introduced |
| 72. | 15BTBT6E09 | Neurobiology & cognitive sciences | New Course Introduced |
| 73. | 15BTBT6E10 | Medical Biotechnology | New Course Introduced |
| 74. | 15BTBT7E01 | Metabolic Engineering | New Course Introduced |
| 75. | 15BTBT7E02 | Environmental Biotechnology | New Course Introduced |
| 76. | 15BTBT7E03 | Genomics & Proteomics | New Course Introduced |
| 77. | 15BTBT7E04 | Bioprocess plant design | New Course Introduced |
| 78. | 15BTBT7E05 | Virology | New Course Introduced |
| 79. | 15BTBT8E01 | Basics of drug action | New Course Introduced |
| 80. | 15BTBT8E02 | Stem cell technology | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 81. | 15BTBT8E03 | Recombinant DNA Technology | New Course Introduced |
| 82. | 15BTBT8E04 | Phytochemicals and herbal medicine | New Course Introduced |
| 83. | 15BTBT8E05 | Bioconjugate technology | New Course Introduced |
| 84. | 15BTBT8E06 | Immunotechnology | New Course Introduced |
| 85. | 15BTBT8E07 | Tissue engineering | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 86. | 15BTBT8E08 | Biological waste water treatment | New Course Introduced |
| 87. | 15BTBT8E09 | Biomaterials and Artificial organs | New Course Introduced |
| 88. | 15BTBT8E10 | Animal cells as bioreactors | New Course Introduced |
| 89. | 15BTBT8E11 | Nanobiotechnology | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 90. | 15BTBT8E12 | Clinical trial and management | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 91. | 15BTBT8E13 | Marine Biotechnology | Changes has been made in Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5 |
| 92. | 15BTBT8E14 | Molecular forensics | New Course Introduced |
| 93. | 15BTBT8E15 | Bioseparations | New Course Introduced |

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

The UG programme B.Tech Biotechnology consists of 93 courses out of which 20 courses are in Science & Humanities, Management and other allied Engineering courses. 6 courses comes

under Skill development, 71 courses comes under Employability, 16 courses comes under Entrepreneurship. The 17 new courses are added in the syllabus 2015-2016.

The average percentage of change in syllabus for 2015-2016 is 100%.

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

Minutes of the meeting of the Board of Studies in **Bachelor of Architecture** held on **10.02.2015** at **10.00**am / pm in the **Faculty of Architecture, Design and Planning** at Karpagam Academy of Higher Education.

Members Present:

- | | |
|--|-------------|
| 1. Ar.Kathiravan, Associate Professor, Faculty of Architecture, Karpagam University, Coimbatore – 641 021. Ph.No: 9994220005 | Chairperson |
| 2. Ar.Ramakrishnamoorthy, Assistant Professor, Faculty of Architecture, Karpagam University, Coimbatore – 641 021. Ph.No: 9445167560 | Member |
| 3. Ar.Siva S, Assistant Professor, Faculty of Architecture, Karpagam University, Coimbatore – 641 021. Ph.No: 9894484399 | Member |
| 4. Ar.Vimal C, Assistant Professor, Karpagam University, Coimbatore – 641 021, Ph.No:9629426939 | Member |
| 5. Ar.Mohammed Ali Sharieff Director, Sasi School of Architecture, Coimbatore Ph.No: 9884887369 | Member |
| 6. Ar. O. Lakshmanan, Chairman – Indian Institute of Architects – Coimbatore Centre, D' Sign Group, 144, T.V. Samy Road West, R.S. Puram, Coimbatore – 641 002. Ph.No: 9842249409 | Member |
| 7. Ar. Anjaneysh Balakrishnaa, Dreamzscapes, 272 C, Cross Cut Road, Gandhipuram, Coimbatore – 641 012. Ph.No: 9942323639 | Member |

8. Mr.Guru Raj M N K,
1st Floor No.3
Second west street, Kamaraj Nagar, Thiruvannamipur
Chennai - 600041
Ph.No: 9715014383

Alumni

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

Agenda: 1

To consider and approve the Regulations and Syllabus for **B. Arch** programme for the Academic year 2015-2016

The Following changes were made in: **B. ArchSyllabus- Academic 2015- 1026**

The Following New Courses have been introduced

1. Communicative English
2. Theory of Architecture
3. Climate Responsive Architecture- I
4. Climate Responsive Architecture- II
5. Surveying and Site Planning
6. Structures and Architecture – Elective Studio
7. Sustainable Architecture- Elective Studio
8. Acoustics – Elective Studio
9. Environmental Planning- Elective Studio
10. Vernacular Architecture – Elective Studio
11. Computer Application - III
12. Architectural Detailing and Building Services detailing-Studio
13. Landscape Architecture- Elective Studio
14. Advanced Structures – Elective Studio
15. Developmental rules and regulations – Elective Studio
16. Construction Technology- Elective Studio
17. Integrated Building Management System – Elective Studio
18. Earth Quake resistant Architecture- Elective studio
19. Digital Architecture – Elective Studio
20. Advanced Concrete technology – Elective Studio
21. Real Estate management – Elective studio
22. Industrial Architecture- elective Studio
23. Green Building- Elective studio
24. Research methods – Elective Studio
25. Medical Architecture- Elective Studio
26. Exhibition design – Elective Studio
27. High Rise Buildings- Elective Studio

The B. Arch Program consists of 73 courses in which 27 are new courses introduced.

The overall change for the course is 36%

The Following Changes were made in the course and curriculum:

1. Few changes were made in Architectural graphics – I and Architectural graphics – II
2. Computer application – III was added to teach students advanced level of rendering
3. Practical Training is proposed for semester 7 and semester 8 instead of Semester 8 and Semester -9

Elective courses were introduced in the final semester for the students to specialize their interest and initiate for master degree course.

Resolution: 1

Resolved to approve the Regulations and Syllabus for **B. Arch** programme and it comes into effect from 2015-2016

Agenda: 2

To consider adoption of the curriculum of **Semester VII and Semester VIII**for **B. Arch** programme from the academic year 2015-2016

Resolution: 2

Resolved to approve the adoption of the curriculum of **Semester VII and Semester VIII** for**B. Arch** programme from the academic year 2015-2016

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 **Architecture - M.Arch** held on **10.02.2015** at **10.00am / pm** in the **Faculty of Architecture, Design and Planning** at Karpagam Academy of Higher Education.

Members :

- | | |
|--|-------------|
| 1. Ar.Kathiravan, Dean i/c, Faculty of Architecture, Karpagam University, Coimbatore – 641 021. Ph.No:9994220005 | Chairperson |
| 2. Er.R.Shanmuga Sundaram, Associate Professor, Faculty of Architecture, Karpagam University, Coimbatore – 641 021. Ph.No: 9750144235 | Member |
| 3. Ar.Bhuvanasundar, Sundar Sundaram Architects ThirugnanaSampantham Road, Race Course Coimbatore – 1 Ph.No: 9843011995 | Member |
| 4. Dr.Harimohan Pillai, Former Member -UG Board, Council of Architecture, “Aradhana” 151 – Priyadarsini Nagar, P.O Ayyanthole, Thrissur – 680 003. Ph.No. 09447188446 | Member |
| 5. Dr.Paul Varghese, X1/223, Kaliankara House, Railway Station Road, Irinjalakuda – 680121, Ph.No:09446232770 | Member |
| 6. Ar.Balakrishnaa, Dreamzscapes, 272 C, Cross Cut Road, Gandhipuram, Coimbatore – 641 012. Ph.No: 9942323639 | Member |
| 7. Ar.Gopalakrishnan, Professor, Department of Architecture, National Institute of Technology, Trichy Ph.No: 9994924004 | Member |

8. Ar.ManojkumarKini
Professor, College of Engineering
SreekariyamKulathoor Road,
Thiruvananthapuram,
Kerala – 695016.
Ph.No: 09846096174

Member

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

Agenda: 1

To consider and approve the Regulations and Syllabus for **M.Arch** programme for the Academic year 2015-2016

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

Resolution: 1

Resolved to approve the Regulations and Syllabus for **M.Arch** programme and it comes into effect from Academic year 2015-2016

Minutes of Meeting of Board of Studies (2015 – 2016) B. Pharm Degree Course

Minutes of meeting of the Board of Studies held on 25.09.2015 at 10.00 AM in the Faculty of Pharmacy at Karpagam Academy of Higher Education.

Members Present:

1. Dr. R. Sundaraganapathy, (Chairman)
2. Ms. G. Praveena
3. Ms. K. N. Arathi
4. Mr. K. Abdul Khayum
5. Dr. S. Mohan
6. Dr. P.G. Sunitha
7. Dr. K.S. Jaganathan
8. Prof. V.E. Ida Christi

The Chairperson welcomed the members of the Board. The Board carefully scrutinized the draft Regulation, Course of study, Scheme of Examination, syllabus and curriculum for B. Pharmacy degree course (2015 – 16) at Faculty of Pharmacy, Karpagam Academy of Higher Education, Coimbatore – 21.

Agenda: 1

To consider and approve the starting of B. Pharm degree course during the Academic year 2015 – 16.

Resolution: 1

Resolved to start B. Pharm degree course during the academic year 2015 – 16 with subject to the approval of Pharmacy Council of Indian (PCI)

Agenda: 2

To consider the syllabus and scheme of Examination of B. Pharm degree course for the year 2015 – 16.

Resolution: 2

Resolved to approve the syllabus and Scheme of Examination of B. Pharm degree course for the year 2015 – 16.