

KARPAGAM ACADEMY OF HIGHER EDUCATION

COIMBATORE 641021

Minutes of the meeting of the Board of Studies in Mathematics held on 28.03.2016 at 10.00 am in the Department of Mathematics at Karpagam Academy of Higher Education.

Member Present:

1. Dr.M.M.Shanmugapriya,
Associate Professor &Head(i/c),
Department of Mathematics,
Karpagam Academy of Higher Education,
Coimbatore – 641021.
2. Dr.K.Kalidass,
Associate Professor,
Department of Mathematics,
Karpagam Academy of Higher Education,
Coimbatore – 641021.
3. Ms.G.Anusuya Devi,
Assistant Professor,
Department of Mathematics,
Karpagam Academy of Higher Education,
Coimbatore – 641021.
4. Ms.M.JannathBegam,
Assistant Professor,
Department of Mathematics,
Karpagam Academy of Higher Education,
Coimbatore – 641021.
5. Dr.N.Anbzhagan,
Professor and Head,
Department of Mathematics,
Alagappa University,
Karaikudi – 630 004
Ph.No : 9790292525
E.MailId : anbzhagan_n@yahoo.co.in
6. Ms.L.R.Nihila(14MMP002)
II M.Sc Mathematics,

Department of Mathematics,
Karpagam Academy of Higher Education
Coimbatore – 641 021.

7. Ms.S.SwathiPriya(13MMU029)
III B.Sc Mathematics,
Department of Mathematics,
Karpagam Academy of Higher Education,
Coimbatore – 641 021.

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 2016-17.

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 2016-17.

Agenda: 3

To consider and approve the Regulations and Syllabus of the allied courses for B.Sc (ECS), B.COM, B.COM(CA), B.Com (PA), BBA, B.Sc (CS), B.Sc(IT), BCA, B.Sc (CT), B.Sc (BT), B.Sc (BC), B.Sc (MB), M.Sc (MB), M.COM, MCA, MBA, M.COM (CA), B.Com(CS), from the academic year 2016-17 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 2016-17.

Agenda: 4

To consider and approve the Regulations and Syllabus for the following Research programme for the Academic year 2016-2017.

- 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 2016-2017.

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 Calculus may be included in lieu of the course Matrices and Classical Algebra.
- ❖ The courses Algebra, Real Analysis and Calculus (Practical) may be included instead of the courses Calculus, Allied Physics-I and Allied Physics-I (Practical), respectively.
- ❖ The courses Foundation course - A (Value Education), and Soft skill development – I may be excluded from the curriculum.
- ❖ The courses Differential Equations, Theory of Real Functions, may be included instead of English-II, Differential Equations & Laplace Transforms, respectively Also the courses Group Theory I, Differential Equations Practical and Environmental Studies may be included instead of Trigonometry, Allied Physics –II and Allied Physics –II - Practical, respectively.
- ❖ The courses Foundation course - B (Environmental Studies) and soft skill development – I may be excluded from the curriculum.
- ❖ The courses Numerical Methods, Ring Theory and Linear Algebra I and Multivariate Calculus may be included instead of English – 3, Mechanics and Statistics, respectively.
- ❖ Also the courses Logic and Sets, Programming with C and C++ and Numerical Methods Practical may be included instead of Introduction to Accounting, Indian Banking and General Chemistry – I, respectively
- ❖ The courses Statistics- Practical, Computer Course c.
- ❖ The courses English – 4, Vector Analysis and Transforms, Operations Research may be replaced by the courses Group Theory II, Metric Spaces and Complex Analysis, Ring Theory and Linear Algebra II, respectively.
- ❖ Moreover, the courses Analytical Geometry, Cost and Management Accounting may be replaced by the courses Graph Theory, Operating System : Linux ,respectively.
- ❖ The courses Human Resource Management, General Chemistry – II and Soft skill development – II may be excluded from the curriculum.
- ❖ The courses Portfolio Optimization, Number Theory and Industrial Mathematics may be included instead of Real Analysis – I, Complex Analysis – I and Numerical Methods.
- ❖ The courses Boolean Algebra and Automata Theory, Theory of Equations, Computer Graphics, Analytical Geometry and Linear Programming may be included instead MATLAB programming, Discrete Mathematics and Number theory and Cryptography, Stochastic Process and Open elective, respectively.
- ❖ The courses Numerical Methods-Practical may be excluded from the curriculum.

- ❖ Moreover, the courses Real Analysis -II, Complex Analysis – II, Advanced graph theory, Fuzzy sets and its applications and Lattice Theory may be replaced by the courses Mathematical Modeling, Mechanics, Riemann Integration and Series of Functions, PDE and System of ODE, Probability and Statistics and Differential Geometry respectively.

The UG programme B.Sc. Mathematics consists of 38 courses. All these 38 courses are changed with new courses. The percentage change in the syllabus content is = 100%

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.

- ❖ In the course Partial Differential Equations, Unit – 1 and Unit-5 may be replaced with new topics due to scope of the course.
- ❖ The course Probability and theoretical distribution can be replaced with a new course Fuzzy Topology.
- ❖ The courses Optimization Techniques -Practical and Stochastic process may be included instead of Magnetohydrodynamics and Abstract Control Theory respectively.
- ❖ The course Three dimensional analytical geometry can be replaced with a new course Neural Networks and fuzzy logic.
- ❖ In the course Topology the Text book may be changed from Simmons's to J.Munkers.
- ❖ In the course Graph theory the Text book may be changed from Harry to Narasingh Deo and also one of the text book may be changed in the reference books.
- ❖ The course Mathematical Statistics in unit I add some content instead of some probability distributions. In Practical problems based on Binomial and Poisson distributions can be removed.

The PG programme, M.Sc Mathematics consists of 30 courses. Among 30 courses, 4 new courses are added and there is a syllabus change in 2 courses. Hence, the percentage of syllabus content change is =16.37%

ALLIED COURSES

- ❖ Department of Mathematics offering Allied Mathematics and Statistics courses for the following programs and the syllabus for the same approved by the BOS.
for B.Sc (ECS), B.COM, B.COM(CA), B.Com (PA), BBA, BBA(CA), MBA,B.Sc (CS), B.Sc (IT), BCA, B.Sc (CT), B.Sc (BT), B.Sc (BC), MCA,B.Sc (MB), M.Sc (MB), M.COM, M.COM (CA),B.Com(CS),B.Com(FA),BI

M.Phil / P.hD PROGRAMME

- ❖ The courses Partial Differential Equations, Abstract Control Theory and Queueing Theory may be included instead of Algebra & mathematical Analysis, Topology and Stochastic Process respectively.

The M.Phil/P.hD programme consists of 12 courses. Among 12 courses, 3 new courses are added. The total percentage of syllabus content change is = 25%.

M. M. Shyni

Chair Person

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

[Signature]

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.