



VI BOARD OF STUDIES MEETING – 03.10.2024

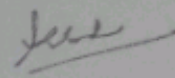
Department Of MATHEMATICS

Agenda for Academic Year 2024-25

(For 2024-2025, 2023-2024, 2022-2023, Admitted Batches for Academic Year 2024-25)

1. Approval of CBCS Pattern for all semesters.
2. Approval of Major and Minor subject's syllabi, blue print and model question papers for 2022-2023, 2023-24 and 2024-2025 Admitted Batches.
3. Approval of Programme, Outcomes (POs), Programmes Specific Outcomes (PSOs) and Course Outcomes (COs) for Single Major and Minor Programme and its mapping for Academic Year 2024-25.
4. Ratification of semester mode of pattern for all students for Academic Year 2024-2025.
5. Approval and ratification of Continuous Assessment System (CAS) for all students with 60-40 pattern for 2022-23, 2023-24 and 2024-25 Admitted Batches.
6. Approval and ratification of syllabi, blue print and model question papers for Skill Enhancement and Multidisciplinary courses of 2023-24 and 2024-25 Admitted Batches for all semesters of the Academic Year 2024-25.
7. Approval and ratification of SEC and MDC for 50 marks external pattern (No Internals).
8. Approval of List of Examiners and Paper Setters.
9. Approval of Innovative learning and evaluation techniques.
10. Approval of student seminars, workshops, field trips and student centric activities.
11. Approval of Peer Group Learning and Student Research Projects .
12. Approval of ICT Mode of learning.

- 13. Approval for encouragement of students to join extension activities i.e., JKC, NSS etc.,
- 14. Approval for encouragement of students to participate in Sports and cultural Activities.
- 15. Approval of Certificate courses, Add-on Course (offline & online), MoUs, Outreach and Learning Improvement Programmes etc.,
- 16. Approval and ratification of Community Service Project after the second semester, Short Term Internship after the fourth semester and Long Term Internship in the sixth semester for all admitted students.



Principal

Government College for Women (Autonomous) Srikakulam
Reaccredited by NAAC with "A" Grade during 3rd Cycle (CGPA 3.09)
Department of Mathematics

Consolidated report of Board of Studies for 2024-25 academic year. The members of Board of Studies Held on 03/10/2024 at the Department of Mathematics under the chairmanship of Smt Y. Prasanthi, In-charge of Department Of Mathematics. The members discussed and resolved the following.

RESOLUTIONS

- 1) To implement the Choice Based Credit System (CBCS) in Autonomous Education System as per staff councils proceedings commencing for the academic year 2024-2025 for semester I,II,III,IV,V and VI of B.Sc Honours Mathematics(MAJOR/MINOR) and B.Sc Mathematics students.
- 2) To approve/ratification and introduce the newly framed syllabus (modified and approved by the BOS) for semester I,II,III,IV,V and VI Courses in Mathematics. The newly framed syllabus is oriented in such a way that it caters to the needs of the students and helps them to meet the present day employability and to develop professionalism in the field of Mathematics.
- 3) To approve/ratification the I,II,III and IVsemesters syllabus of B.Sc Honours Mathematics(MAJOR/MINOR) for the batch admitted in 2023-24.
- 4) To approve/ratification the V and VI semesters syllabus of III year B.Sc Mathematics for the batch admitted in 2022-23.
- 5) To approve/ratification to offer any one set among the three of Skill Enhancement courses in V semester.
- 6) To ratify and introduce the semester mode of examinations for students of all the years.
- 7) To approve and ratify Multidisciplinary courses for 1st year 1st semester and 2nd year 4th semester students for 2024-25 academic year.
- 8) Further, the model question papers submitted by concerned faculty for all the semesters were approved and ratified. It was decided that out of 100 marks in each semester, 60 marks are allotted for theory external examination and 40 marks for internal assessment. Regarding

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allocation of internal marks, 65 marks would be allotted by conducting two mid-semesters and remaining 15 marks are fixed for academic and other performance. The total marks 80. Average of 80Marks will be considered from the batch admitted in 2022-23.

- 9) Further, the model question papers submitted by concerned faculty for all the semesters were approved and ratified. It was decided that out of 100 marks in each semester, 60 marks are allotted for theory external examination and 40 marks for internal assessment. Regarding allotment of internal marks, 45 marks would be allotted by conducting two mid-semesters and 35 marks are fixed for academic and other performance. The total marks 80. Average of 80Marks will be considered for the batch admitted in 2024-25.
- 10) To approved and ratify blue print and model question papers for 60 external marks for Life academic year 2024-25.
- 11) To approved and ratify blue print and model question papers for 50 external marks for Life skill course and Multidisciplinary course.
- 12) It is resolved that the BOS is authorized to make any modifications in future as per the guidelines of APSCHE and BRAU.
- 13) To conduct semesters, workshops etc., to inculcate and create new ideology among the students.
- 14) To adopt NAAC norms by introducing quality circles among student community.
- 15) To approve and list of Subject experts and paper setters of Mathematics.
- 16) To develop infrastructural facilities in the department and implement guidelines of the Academic Council.
- 17) To take up innovative teaching (ICT mode of teaching) and evolve techniques that are easily understood by the students and to conduct remedial coaching to the below average students.
- 18) To encourage students to join JKC to equip with communication skills and improve their personality development.
- 19) To encourage students to participate in the community development activities like NSS .
- 20) To approve/ratification Certificate courses.
- 21) To approve/ratification Value Added courses.

The committee approved the following Changes in all semesters of mathematics

COURSE-I: ESSENCIALS OF BASIC SCIENCES-adding parts

Unit-1 - Essentials of mathematics

Complex Numbers : Conjugation of complex number-De-Moivre's Theorem".

Trigonometric Ratios: Trigonometric Ratios of multiple and sub-multiple angles-sum and product transformations.

Vectors: Angle between two non-zero vectors.

Statistical Measures: Range-Quantiles and the interquartile range.

COURSE II: ADVANCES IN BASICS SCIENCES--adding parts

Unit-1-Straight Lines: -

Perpendicular Distance from a point to line-Distance between parallel lines.

Limits and Differentiation: – Continuity of a function

Integration: Standard forms and properties of integrals

Matrices: -Adjoint and Inverse of a matrix

COURSE -III- DIFFERENTIAL EQUATIONS -adding parts

Unit – 1 Differential Equations of first order and first degree

$$IV) \frac{1}{N} \left(\frac{\partial N}{\partial x} - \frac{\partial M}{\partial y} \right)^n$$

$$V) \frac{1}{N} \left(-\frac{\partial N}{\partial x} + \frac{\partial M}{\partial y} \right)^n$$

Change of variables.

Unit-2:Differential Equations of first order but not of first degree:--Equations that do not contain x(or y)

Unit-3:Higher order linear differential equations--F(D)y=Q when Q is a function of x

Unit-4: Higher order linear differential equations (continued.)

P.I. of f(D)y = Q when Q=x^m V, where V is a function of x

COURSE-IV-SOLID GEOMETRY - adding parts

Unit – 1 The Plane : - Angle between two

Planes-Two sides of a Plane-Distance between parallel planes - Orthogonal projection on a plane.

Unit-2 : The line:-Area of a triangle-Intersection of three planes.

Unit-3 : The sphere-Touching spheres

Unit-4: The sphere (continued)-Radical line- Radical centre,-Limiting Point

COURSE-V –GROUP THEORY - adding parts

Unit-1: Groups- order of an element of a group

Unit-2: subgroups –Normalize of an element of a group –self – conjugated element of a group

Unit-3 Normal subgroups-Simple groups

COURSE-VI -Numerical methods adding parts


Unit-3- Central Difference Interpolation formulae, Everett's formula

COURSE –VII –Laplace transforms-adding parts

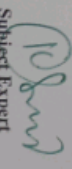
Unit-3 –laplacetransform-3


laplace transform of periodicfunction

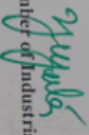
Signed and approved by:

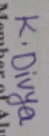

Y. B. Bhat
Chair Person


K. P. Bhat
Subject Expert
(Uday, Nominnee)


D. Bhat
Subject Expert
(Nominated by Academic Council)


K. Divya
Subject Expert
(Nominated by Academic Council)


M. Divya
Member of Industrialist


K. Divya
Member of Alumni

FACULTY MEMBERS:

- 1) 
- 2) 