

K.S.N. Govt. Degree College (W)(A) Anantapur

Department of Mathematics



BoS Report
2023-2024



K.S.N GOVT. DEGREE COLLEGE FOR WOMEN

An ISO Certified & Autonomous Institution

Affiliated to Sri Krishnadevaraya University - Ananthapuram - A.P - 515002



NAAC
(3.15/4.00) Grade
3rd Cycle

Board of Studies Meeting 2023-24

AGENDA:

- ✚ To review the curriculum as prescribed by APSCE with effect from Academic Year 2023-24
- ✚ To discuss whether changes are required in the curriculum
- ✚ To discuss and propose the criteria and pattern of internal assessment
- ✚ To discuss and propose the pattern of external assessment
- ✚ To offer value added Add-on and Certificate Courses
- ✚ Any other subject with the permission of the Chairperson

Constitution of the Board of Studies in Mathematics

S.No.	Name & Designation	Acted as	Signature
1.	Kum. T. Renuka Devi Lecturer in Mathematics and HoD K.S.N. GDCW(A), Anantapur	Chairperson	T. Renuka Devi 10/10/23
2.	Prof. G. Shobhalatha Dept. of Mathematics S.K. University, Anantapur	University Nominee	G. Shobhalatha 10/10/2023
3.	Dr. Shaik Jafarunnisa Lecturer in Mathematics Govt. Degree College (M), Kurnool	Subject Expert	S. Jafarunnisa 10/10/23
4.	Smt. Thiriveedi Sunitha Lecturer in Mathematics KVR Govt. Degree College(W)(A), Kurnool	Subject Expert	S. Thiriveedi Sunitha 10/10/23
5.	Smt. Y. Pradeeptha Contract Lecturer in Mathematics K.S.N. GDCW(A), Anantapur	Member	Y. Pradeeptha
6.	Sri. P. Naveen Kumar Digi Brains Academy Anantapur	Industrialist	P. Naveen Kumar
7.	G.Nageswari	Alumni	G. Nageswari

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Minutes of Board of Studies

The members of BoS in Mathematics met on 10-10-2023 at 11:00 AM in the Department of Mathematics. The chairperson Kum. T. Renuka Devi welcomed the members of board of studies (BOS). The chairperson introduced and explained the agenda of the meeting. The members of BoS discussed the proposals on the curriculum and examination pattern for B.Sc., Mathematics Major Course - 1&2 for Semester-I, Major Course - 3&4 for Semester-II, Mathematics Minor Course-1 (Optional) for Semester-II and Skill Course Analytical Skills as optional paper for all programmes in Semester-I.

Discussions:

The BoS members had brainstorming discussion & interaction among themselves after discussion suggestions were incorporated appropriately in the curriculum and syllabi.

↓ Board of studies members discussed about the syllabus for I & II semesters.

↓ University Nominee Prof. G. Shobhalatha, Dept. of Mathematics, S.K. University, Anantapur discussed the implementation of APSCHE syllabus of I & II Semesters and suggested syllabi with few changes.

The changes are as follows:

- In Semester-I, Major Course -1: Essentials and Applications of Mathematical, Physical and Chemical Sciences, Unit – IV: Applications of Mathematics in Physics & Chemistry sub topics are not described in APSCHE syllabus so, she suggested to describe the topics as follows

Applications of Calculus: Work done by a constant force and work done by a variable force, Vertical elastic string, Horizontal elastic string, Some applications of calculus in chemistry.

Applications of Differential Equations: Simple Harmonic motion- Simple pendulum, Some applications of differential equations in chemistry

Applications of Complex Analysis: Harmonic function, Application to flow problems -Velocity potential.

- In Semester-I, Major Course -2: Advances in Mathematical, Physical and Chemical Sciences, Unit – IV: Mathematical Modelling Applications in Physics and Chemistry sub topics are not described in APSCHE syllabus so, she suggested to describe the topics as follows

Mathematical Modelling applications in physics and chemistry: Mathematical Models, Natural growth model, Population growth, decay models, Lake pollution model, Drug assimilation into the blood, Case of course of pills/Antibiotics

- ✚ BOS Members discussed about Autonomous (CIA) question paper pattern 60+40 pattern for I & II semester for the academic year 2023-24.
- ✚ BOS Members suggested to conduct I Semester Course-I&2 examination as objective type as per the guidelines given by APSCHE.

Resolutions:

The following resolutions are made and passed unanimously.

- ✚ As per APSCHE Course Structure in Semester-I there will be Two papers common to all physical sciences single Majors program like Mathematics, Physics, Chemistry and Computer science i.e., Course -1 and Course -2.
- ✚ Resolved to approve the APSCHE syllabus for Unit-1: Essentials of Mathematics in Course – 1 & Unit-1 Advances in Basics Mathematics in Course – 2 in Semester-I common for B.Sc., Mathematics, Physics, Chemistry and Computer Science.
- ✚ Resolved to approve the APSCHE syllabus for Unit-4: Applications of Mathematics in Physics & Chemistry in Major Course – 1 & Unit – IV: Mathematical Modelling Applications in Physics and Chemistry in in Major Course – 2 in Semester-I common for B.Sc., Mathematics, Physics, Chemistry and Computer Science with suggested changes mentioned in above discussion.
- ✚ As per APSCHE Course Structure in Semester-II there will be one common course for both single Major and Minor i.e., Core Course -3(major)/1(minor) and one more paper for single major mathematics i.e., Core Course -4.
- ✚ Resolved to approve the APSCHE syllabus for B.Sc., Mathematics Major and Minor Sem-II. The revised syllabus will come into effect from the academic year 2023-2024.
- ✚ Resolved to approve the question paper pattern for B.Sc. Mathematics Major and Minor in Sem-I & II, the external examination is for 60 Marks and weightage for the internal assessment is 40 marks as prescribed in the proforma in Annexure – I & II.
- ✚ The division for 40 marks is as follows.
 - Two Mid examinations for 35Marks (Mid -1 for 20 M and Mid-2 for 15 M).
 - Assignments-5 marks, Co-Curricular Activities-5 marks, Attendance-5 marks
 - The marks obtained by a student for 50 marks is to be scaled down to 40 marks.

- ✚ Resolved to approve the Blue Print of Question paper and Question paper pattern for B.Sc. Mathematics Major and Minor Courses for Semester-I & II, for the academic year 2023-24 as prescribed in the proforma in Annexure -I, II, III & IV.
- ✚ Resolved to approve the syllabus and paper pattern for the Skill Course - Analytical Skills as optional paper for all Degree programmes in Sem-I from the Academic year 2023-2024 as prescribed in the proforma Annexure -V
- ✚ Resolved to approve the question paper pattern for Analytical Skill in Sem-I, the external examination is for 50 Marks.
- ✚ Resolved to recommend the panel of examiners and paper setters as prescribed in the proforma in Annexure - VI from the academic year 2023-24.
- ✚ The revised syllabus will come into effect from the academic year 2023-2024.

B.Sc. Mathematics (Major)
Courses Structure (Sem-II) (w.e.f. AY 2023-24)

Year	Semester	Course	Title of the Paper	No. of Hrs /Week	No. of Credits	IA	EA	Total
I	I	1	Essentials and Applications of Mathematical, Physical and Chemical Sciences	5	4	40	60	100
		2	Advances in Mathematical, Physical and Chemical Sciences	5	4	40	60	100
I	II	3	Differential Equations & Problem-Solving Sessions	5	4	40	60	100
		4	Analytical Solid Geometry & Problem-Solving Sessions	5	4	40	60	100

Minor (Optional)
Subject: Mathematics
Courses Structure (Sem-II) (w.e.f. AY 2023-24)

Year	Semester	Course	Title of the Paper	No. of Hrs /Week	No. of Credits	IA	EA	Total
I	II	I	Differential Equations & Problem-Solving Sessions	5	4	40	60	100

Skill Course (Optional)
Subject: Analytical Skills
Courses Structure (Sem-I) (w.e.f. AY 2023-24)

Year	Semester	Title of the Paper	No. of Hrs /Week	No. of Credits	IA	EA	Total
I	I	ANALYTICAL SKILLS	2	2	-	50	50

6. Fundamentals of Physics by David Halliday, Robert Resnick, and Jearl Walker
7. Physics for Scientists and Engineers with Modern Physics" by Raymond A. Serway and John W. Jewett Jr.
8. Physics for Technology and Engineering" by John Bird
9. Chemistry in daily life by Kirpal Singh
10. Chemistry of bio molecules by S. P. Bhutan
11. Fundamentals of Computers by V. Raja Raman
12. Cyber Security Essentials by James Graham, Richard Howard, Ryan Olson

STUDENT ACTIVITIES

UNIT I: ESSENTIALS OF MATHEMATICS:

1: Complex Number Exploration

Provide students with a set of complex numbers in both rectangular and polar forms. They will plot the complex numbers on the complex plane and identify their properties

2: Trigonometric Ratios Problem Solving

Give students a set of problems that require the calculation of trigonometric ratios and their relations.

Students will solve the problems using the appropriate trigonometric functions (sine, cosine, tangent, etc.) and trigonometric identities.

3: Vector Operations and Applications

Provide students with a set of vectors in Cartesian form.

Students will perform vector addition and subtraction operations to find the resultant vectors. They will also calculate the scalar and vector products of given vectors.

4: Statistical Measures and Data Analysis

Give students a dataset containing numerical values.

Students will calculate the mean, median, and mode of the data, as well as other statistical measures if appropriate (e.g., range, standard deviation).

They will interpret the results and analyze the central tendencies and distribution of the data.

UNIT II: ESSENTIALS OF PHYSICS:

1. Concept Mapping

Divide students into groups and assign each group one of the topics.

Students will create a concept map illustrating the key concepts, relationships, and applications related to their assigned topic.

Encourage students to use visual elements, arrows, and labels to represent connections and interdependencies between concepts.

2. Laboratory Experiment

Select a laboratory experiment related to one of the topics, such as motion of objects or electric and magnetic fields.

Provide the necessary materials, instructions, and safety guidelines for conducting the experiment.

Students will work in small groups to carry out the experiment, collect data, and analyze the results.

After the experiment, students will write a lab report summarizing their findings, observations, and conclusions.

UNIT III: ESSENTIALS OF CHEMISTRY

1: Chemistry in Daily Life Presentation

Divide students into groups and assign each group a specific aspect of daily life where chemistry plays a significant role, such as food and nutrition, household products, medicine, or environmental issues.

Students will research and create a presentation (e.g., PowerPoint, poster, or video) that showcases the importance of chemistry in their assigned aspect.

2: Periodic Table Exploration

Provide students with a copy of the periodic table.

Students will explore the periodic table and its significance in organizing elements based on their properties.

They will identify and analyze trends in atomic structure, such as electronic configuration, atomic size, and ionization energy.

3: Chemical Changes and Classification of Matter

Provide students with various substances and chemical reactions, such as mixing acids and bases or observing a combustion reaction.

Students will observe and describe the chemical changes that occur, including changes in color, temperature, or the formation of new substances.

4: Biomolecules Investigation

Assign each student or group a specific biomolecule category, such as carbohydrates, proteins, fats, or vitamins.

Students will research and gather information about their assigned biomolecule category, including its structure, functions, sources, and importance in the human body.

They can create informative posters or presentations to present their findings to the class.

UNIT IV: APPLICATIONS OF MATHEMATICS, PHYSICS & CHEMISTRY

1: Interdisciplinary Case Studies

Divide students into small groups and provide them with interdisciplinary case studies that involve the interdisciplinary application of mathematics, physics, and chemistry.

Each case study should present a real-world problem or scenario that requires the integration of concepts from all three disciplines.

2: Design and Innovation Project

Challenge students to design and develop a practical solution or innovation that integrates mathematics, physics, and chemistry principles.

Students can choose a specific problem or area of interest, such as renewable energy, environmental conservation, or materials science.

3: Laboratory Experiments

Assign students laboratory experiments that demonstrate the practical applications of mathematics, physics, and chemistry.

Examples include investigating the relationship between concentration and reaction rate, analyzing the behavior of electrical circuits, or measuring the properties of materials.

4: Mathematical Modeling

Present students with real-world problems that require mathematical modeling and analysis.

UNIT V: ESSENTIALS OF COMPUTER SCIENCE:

1. Identifying the attributes of network (Topology, service provider, IP address and bandwidth of your college network) and prepare a report covering network architecture.
2. Identify the types of malwares and required firewalls to provide security.
3. Latest Fraud techniques used by hackers.

K.S.N. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), ANANTHAPURAM
INTERNAL ASSESSMENT EXAM PATTERN
For Course-1
(w.e.f. 2023-24)

S. No.	Type of Assessment	Weightage Assigned
1.	Assignments	5
2.	Project-Work/Seminar/Group Discussion/Quizzes/Presentations	5
3.	Cleaning, Greening and Attendance	5
4.	Testing of knowledge through Mid-term examinations (Mid -1 + Mid -2)	20 + 15
	Total	50 (Scale down to 40)

- ✚ Proposed to conduct Mid I Examination through following 5 kinds of objective questions for a total of 20 Marks:
 - Section-A: 3 Multiple Choice Questions. (3 x 1 = 3M)
 - Section-B: 5 Fill in the Blanks (5 x 1 = 5M)
 - Section-C: 5 Very Short Answers (5 x 1 = 5M)
 - Section-D: 5 Match the following (5 x 1 = 5M)
 - Section-E: 2 True/False (2 x 1 = 2M)
- ✚ Mid II Examination through 5 kinds of objective questions for a total of 15 Marks
 - Section-A: 4 Multiple Choice Questions. (4 x 1 = 4M)
 - Section-B: 3 Fill in the Blanks (3 x 1 = 5M)
 - Section-C: 3 Very Short Answers (3 x 1 = 5M)
 - Section-D: 3 Match the following (3 x 1 = 5M)
 - Section-E: 2 True/False (2 x 1 = 2M)
- ✚ The duration of examination is 1 Hour per paper.
- ✚ The marks obtained by a student for 50 marks (Total of two Mid exams for 35, Assignments 5, Classroom Activities 5, Clean, Green and Attendance 5) is to be scaled down to 40

K.S.N. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), ANANTHAPURAM
(w.e.f. 2023-24)

B.Sc. MATHEMATICS: Semester-I

**COURSE-1: ESSENTIAL AND APPLICATIONS OF MATHEMATICAL,
PHYSICAL AND CHEMICAL SCIENCES**

MATHEMATICS MODEL PAPER (OBJECTIVE TYPE)

Time: 2 Hrs

Max. Marks:60

SECTION – A

I . Answer all the following questions (Multiple choice questions) 20x1 =20M
(At least Four Questions should be given from each Unit)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20

SECTION – B

II Answer all the following questions (Fill in the blanks) 10x1 =10M
(At least Two Questions should be given from each Unit)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

SECTION – C

III Answer all the following questions (Short answer Questions) 10x1 =10 M
(At least Two Questions should be given from each Unit)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

SECTION – D

IV Answer all the following questions (Matching) 10x1 =10 M
(At least Two Questions should be given from each Unit)

Group – A

Group - B

- | | | |
|----|---|---|
| 1 | (| A |
| 2 | (| B |
| 3 | (| C |
| 4 | (| D |
| 5 | (| E |
| 6 | (| F |
| 7 | (| G |
| 8 | (| H |
| 9 | (| I |
| 10 | (| J |

SECTION – E

V Answer all the following questions (True/False) 10x1 =10 M
(At least Two Questions should be given from each Unit)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

ANNEXURE -II

K.S.N. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), ANANTHAPURAM

(w.e.f. 2023-24)

SEMESTER-I

COURSE 2: ADVANCES IN MATHEMATICAL, PHYSICAL AND CHEMICAL SCIENCES

Theory	Credits: 4	5 hrs/week
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Course Objective:

The objective of this course is to provide students with an in-depth understanding of the recent advances and cutting-edge research in mathematical, physical, and chemical sciences. The course aims to broaden students' knowledge beyond the foundational concepts and expose them to the latest developments in these disciplines, fostering critical thinking, research skills, and the ability to contribute to scientific advancements.

Learning outcomes:

- ✦ Explore the applications of mathematics in various fields of physics and chemistry, to understand how mathematical concepts are used to model and solve real-world problems.
- ✦ To Explain the basic principles and concepts underlying a broad range of fundamental areas of physics and to Connect their knowledge of physics to everyday situations.
- ✦ Understand the different sources of renewable energy and their generation processes and advances in nanomaterials and their properties, with a focus on quantum dots. To study the emerging field of quantum communication and its potential applications. To gain an understanding of the principles of biophysics in studying biological systems. Explore the properties and applications of shape memory materials.
- ✦ Understand the principles and techniques used in computer-aided drug design and drug delivery systems, to understand the fabrication techniques and working principles of nano sensors. Explore the effects of chemical pollutants on ecosystems and human health.
- ✦ Understand the interplay and connections between mathematics, physics, and chemistry in various advanced applications. Recognize how mathematical models and physical and chemical principles can be used to explain and predict phenomena in different contexts.
- ✦ Understand and convert between different number systems, such as binary, octal, decimal, and hexadecimal. Differentiate between analog and digital signals and understand their characteristics. Gain knowledge of different types of transmission media, such as wired (e.g., copper cables, fiber optics) and wireless (e.g., radio waves, microwave, satellite).

UNIT I: ADVANCES IN BASICS MATHEMATICS

Straight Lines: Different forms – Reduction of general equation into various forms – Point of intersection of two straight lines

[Handwritten signatures and names]
G. Shweta T. Rande
S. Rajan G. Raju
S. Raju

Limits and Differentiation: Standard limits – Derivative of a function – Problems on product rule and quotient rule

Integration: Integration as a reverse process of differentiation – Basic methods of integration

Matrices: Types of matrices – Scalar multiple of a matrix – Multiplication of matrices – Transpose of a matrix and determinants

UNIT II: ADVANCES IN PHYSICS:

Renewable energy: Generation, energy storage, and energy-efficient materials and devices.
Recent advances in the field of nanotechnology: Quantum dots, Quantum Communication- recent advances in biophysics- recent advances in medical physics- Shape Memory Materials.

UNIT III: ADVANCES IN CHEMISTRY:

Computer aided drug design and delivery, nano sensors, Chemical Biology, impact of chemical pollutants on ecosystems and human health, Dye removal - Catalysis method

UNIT IV: ADVANCED APPLICATIONS OF MATHEMATICS, PHYSICS & CHEMISTRY

Mathematical Modelling applications in physics and chemistry: Mathematical Models, Natural growth model, Population growth, decay models, Lake pollution model, Drug assimilation into the blood, Case of course of pills/Antibiotics

Application of Renewable energy: Grid Integration and Smart Grids, Application of nanotechnology: Nanomedicine,

Application of biophysics: Biophysical Imaging, Biomechanics, Neurophysics,

Application of medical physics: Radiation Therapy, Nuclear medicine

Solid waste management, Environmental remediation- Green Technology, Water treatment.

UNIT V: ADVANCED APPLICATIONS OF COMPUTER SCIENCE

Number System-Binary, Octal, decimal, and Hexadecimal, Signals-Analog, Digital, Modem, Codec, Multiplexing, Transmission media, error detection and correction- Parity check and CRC, Networking devices- Repeater, hub, bridge, switch, router, gateway.

Text Book:

“Advances of Mathematical, Physical and Chemical Sciences” by HK Dass, PS Hemne, RL Madan, Rama Verma, Rajnish Verma and Suneel K Duvvuri, S.Chand & Company Limited, New Delhi.

Recommended books:

1. Coordinate Geometry by S.L.Lony, Arihant Publications
2. Calculus by Thomas and Finny, Pearson Publications
3. Matrices by A.R.Vasishtha and A.K. Vasishtha, Krishna Prakashan Media(P)Ltd.
4. "Renewable Energy: Power for a Sustainable Future" by Godfrey Boyle
5. "Energy Storage: A Nontechnical Guide" by Richard Baxter

Y. Shoban T.D. Reddy

K. S. Jagan Y. S. Jagan

Dr. Jagan

6. "Nanotechnology: Principles and Applications" by Sulabha K. Kulkarni and Raghvendra A. Bohara
7. "Biophysics: An Introduction" by Rodney Cotterill
8. "Medical Physics: Imaging" by James G. Webster
9. "Shape Memory Alloys: Properties and Applications" by Dimitris C. Lagoudas
10. Nano materials and applications by M.N.Borah
11. Environmental Chemistry by Anil K.D.E.
12. Digital Logic Design by Morris Mano
13. Data Communication & Networking by Bahrouz Forouzan.

STUDENT ACTIVITIES

UNIT I: ADVANCES IN BASIC MATHEMATICS

1: Straight Lines Exploration

Provide students with a set of equations representing straight lines in different forms, such as slope- intercept form, point-slope form, or general form.

Students will explore the properties and characteristics of straight lines, including their slopes, intercepts, and point of intersection.

2: Limits and Differentiation Problem Solving

Students will apply the concept of limits to solve various problems using standard limits.

Encourage students to interpret the results and make connections to real-world applications, such as analyzing rates of change or optimizing functions.

3: Integration Exploration

Students will explore the concept of integration as a reverse process of differentiation and apply basic methods of integration, such as the product rule, substitution method, or integration by parts.

Students can discuss the significance of integration in various fields, such as physics and chemistry

4: Matrices Manipulation

Students will perform operations on matrices, including scalar multiplication, matrix multiplication, and matrix transpose.

Students can apply their knowledge of matrices to real-world applications, such as solving systems of equations or representing transformations in geometry.

UNIT II: ADVANCES IN PHYSICS:

1: Case Studies

Provide students with real-world case studies related to renewable energy, nanotechnology, biophysics, medical physics, or shape memory materials.

Students will analyze the case studies, identify the challenges or problems presented, and propose innovative solutions based on the recent advances in the respective field.

They will consider factors such as energy generation, energy storage, efficiency, sustainability, materials design, biomedical applications, or technological advancements.

2: Experimental Design

Assign students to design and conduct experiments related to one of the topics: renewable energy, nanotechnology, biophysics, medical physics, or shape memory materials.

They will identify a specific research question or problem to investigate and design and experiment accordingly.

Students will collect and analyze data, interpret the results, and draw conclusions based on their findings.

They will discuss the implications of their experimental results in the context of recent advances in the field.

3: Group Discussion and Debate

Organize a group discussion or debate session where students will discuss the ethical, social, and environmental implications of the recent advances in renewable energy, nano technology, biophysics, medical physics, and shape memory materials.

Assign students specific roles, such as proponent, opponent, or moderator, and provide them with key points and arguments to support their positions.

UNIT III: ADVANCES IN CHEMISTRY:

1. Experimental Design and Simulation

In small groups, students will design experiments or simulations related to the assigned topic.

For example, in the context of computer-aided drug design, students could design a virtual screening experiment to identify potential drug candidates for a specific disease target.

For nano sensors, students could design an experiment to demonstrate the sensitivity and selectivity of nano sensors in detecting specific analytes.

Chemical biology-related activities could involve designing experiments to study enzyme-substrate interactions or molecular interactions in biological systems.

Students will perform their experiments or simulations, collect data, analyze the results, and draw conclusions based on their findings.

2. Case Studies and Discussion

Provide students with real-world case studies related to the impact of chemical pollutants on ecosystems and human health.

Students will analyze the case studies, identify the sources and effects of chemical pollutants, and propose mitigation strategies to minimize their impact.

Encourage discussions on the ethical and environmental considerations when dealing with chemical pollutants.

For the dye removal using the catalysis method, students can explore case studies where catalytic processes are used to degrade or remove dyes from wastewater.

Students will discuss the principles of catalysis, the advantages and limitations of the catalysis method, and its applications in environmental remediation.

3: Group Project

Assign students to work in groups to develop a project related to one of the topics.

The project could involve designing a computer-aided drug delivery system, developing a nano sensor for a specific application, or proposing strategies to mitigate the impact of chemical pollutants on ecosystems.

Students will develop a detailed project plan, conduct experiments or simulations, analyze data, and present their findings and recommendations.

Encourage creativity, critical thinking, and collaboration throughout the project.

UNIT IV: ADVANCED APPLICATIONS OF MATHEMATICS, PHYSICS & CHEMISTRY

1: Mathematical Modelling Experiment

Provide students with a mathematical modelling experiment related to one of the topics. For example, in the context of renewable energy, students can develop a mathematical model to optimize the placement and configuration of solar panels in a solar farm.

Students will work in teams to design and conduct the experiment, collect data, and analyze the results using mathematical models and statistical techniques.

They will discuss the accuracy and limitations of their model, propose improvements, and interpret the implications of their findings in the context of renewable energy or the specific application area.

2: Case Studies and Group Discussions

Assign students to analyze case studies related to the applications of mathematical modelling in nanotechnology, biophysics, medical physics, solid waste management, environmental remediation, or water treatment.

Students will discuss the mathematical models and computational methods used in the case studies, analyze the outcomes, and evaluate the effectiveness of the modelling approach.

Encourage group discussions on the challenges, ethical considerations, and potential advancements in the field.

Students will present their findings and engage in critical discussions on the advantages and limitations of mathematical modelling in solving complex problems in these areas.

3.Group Project

Assign students to work in groups to develop a group project that integrates mathematical modelling with one of the application areas: renewable energy, nanotechnology, biophysics, medical physics, solid waste management, environmental remediation, or water treatment.

The project could involve developing a mathematical model to optimize the delivery of radiation therapy in medical physics or designing a mathematical model to optimize waste management practices.

Students will plan and execute their project, apply mathematical modelling techniques, analyze the results, and present their findings and recommendations.

Encourage creativity, critical thinking, and collaboration throughout the project.

UNIT V: Advanced Applications of computer Science

Students must be able to convert numbers from other number system to binary number systems

Identify the networking media used for your college network Identify all the networking devices used in your college premises.

K.S.N. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), ANANTHAPURAM
INTERNAL ASSESSMENT EXAM PATTERN
For Course-2
(w.e.f. 2023-24)

S. No.	Type of Assessment	Weightage Assigned
1.	Assignments	5
2.	Project-Work/Seminar/Group Discussion/Quizzes/Presentations	5
3.	Cleaning, Greening and Attendance	5
4.	Testing of knowledge through Mid-term examinations (Mid -1 + Mid -2)	20 + 15
	Total	50 (Scale down to 40)

- ✚ Proposed to conduct Mid I Examination through following 5 kinds of objective questions for a total of 20 Marks:
 - Section-A: 3 Multiple Choice Questions. (3 x 1 = 3M)
 - Section-B: 5 Fill in the Blanks (5 x 1 = 5M)
 - Section-C: 5 Very Short Answers (5 x 1 = 5M)
 - Section-D: 5 Match the following (5 x 1 = 5M)
 - Section-E: 2 True/False (2 x 1 = 2M)
- ✚ Mid II Examination through 5 kinds of objective questions for a total of 15 Marks
 - Section-A: 4 Multiple Choice Questions. (4 x 1 = 4M)
 - Section-B: 3 Fill in the Blanks (3 x 1 = 5M)
 - Section-C: 3 Very Short Answers (3 x 1 = 5M)
 - Section-D: 3 Match the following (3 x 1 = 5M)
 - Section-E: 2 True/False (2 x 1 = 2M)
- ✚ The duration of examination is 1 Hour per paper.
- ✚ The marks obtained by a student for 50 marks (Total of two Mid exams for 35, Assignments 5, Classroom Activities 5, Clean, Green and Attendance 5) is to be scaled down to 40

K.S.N. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), ANANTHAPURAM
(w.e.f. 2023-24)

B.Sc. MATHEMATICS: Semester-I

COURSE-2: ADVANCES IN MATHEMATICAL, PHYSICAL AND CHEMICAL
SCIENCES

MATHEMATICS MODEL PAPER (OBJECTIVE TYPE)

Time: 2 Hrs

Max. Marks:60

SECTION – A

I . Answer all the following questions (Multiple choice questions) 20x1 =20M
(At least Four Questions should be given from each Unit)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20

SECTION – B

II Answer all the following questions (Fill in the blanks) 10x1 =10M
(At least Two Questions should be given from each Unit)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

SECTION – C

10x1 =10 M

III Answer all the following questions (Short answer Questions)
(At least Two Questions should be given from each Unit)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

SECTION – D

10x1 =10 M

IV Answer all the following questions (Matching)
(At least Two Questions should be given from each Unit)

Group – A

Group - B

- | | | |
|----|---|---|
| 1 | (| A |
| 2 | (| B |
| 3 | (| C |
| 4 | (| D |
| 5 | (| E |
| 6 | (| F |
| 7 | (| G |
| 8 | (| H |
| 9 | (| I |
| 10 | (| J |

SECTION – E

10x1 =10 M

V Answer all the following questions (True/False)
(At least Two Questions should be given from each Unit)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Unit – 4

Higher order linear differential equations -II

Solution to a non-homogeneous linear differential equation with constant coefficients

P.I. of $f(D)y = Q$ when $Q = bx^k$

P.I. of $f(D)y = Q$ when $Q = e^{ax}V$, where V is a function of x

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

Unit – 5

Higher order linear differential equations with non-constant coefficients

Linear differential Equations with non-constant coefficients; Cauchy-Euler Equation; Legendre Equation; Method of variation of parameters

Activities:

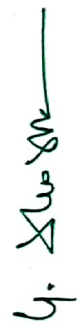
Seminar/ Quiz/ Assignments/ Applications of Differential Equations to Real life Problem /Problem Solving Sessions.

Text Book:

A text book of Mathematics for B.A/B.Sc, Vol 1, by N. Krishna Murthy & others, published by S.Chand & Company, New Delhi.

Reference Books:

1. Ordinary and Partial Differential Equations by Dr. M.D. Raisinghania, published by S. Chand & Company, New Delhi.
2. Differential Equations and Their Applications by Zafar Ahsan, published by Prentice-Hall of India Pvt. Ltd, New Delhi-Second edition.
3. Differential Equations published by Schaum series.
4. Differential Equations published by Pragati Prakashan.

BLUE PRINT FOR QUESTION PAPER PATTERN

COURSE 3 for Major Mathematics
COURSE 1 for Minor Mathematics

DIFFERENTIAL EQUATIONS

Unit	TOPIC	S.A.Q.(including choice)	E.Q.(including choice)	Total Marks
I	Differential Equations of first order and first degree	2	2	24
II	Differential Equations of first order but not of first degree Orthogonal Trajectories	2	2	24
III	Higher order linear differential equations-I	1	2	20
IV	Higher order linear differential equations-II	2	2	24
V	Higher order linear differential equations with non-constant coefficients	1	2	20
Total		8	10	112

S.A.Q. = Short answer questions (4 marks)

E.Q. = Essay questions (8 marks)

Short answer questions: 5 X 4 M = 20 M

Essay questions: 5 X 8 M = 40 M

Total Marks = 60 M

G. Suresh

R.

K. T. J. or T. R. J. or D.

or D. or D. or D.

K.S.N. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), ANANTHAPURAM
INTERNAL ASSESSMENT EXAM PATTERN
COURSE 3 for Major Mathematics
COURSE 1 for Minor Mathematics
DIFFERENTIAL EQUATIONS
(w.e.f. 2023-24)

S. No.	Type of Assessment	Weightage Assigned
1.	Assignments	5
2.	Project-Work/Seminar/Group Discussion/Quizzes/Presentations	5
3.	Cleaning, Greening and Attendance	5
4.	Testing of knowledge through Mid-term examinations (Mid -1 + Mid -2)	20 + 15
Total		50 (Scale down to 40)

- ✚ Proposed to conduct Mid I Examination through following three kinds of questions for a total of 20 Marks:
 - Firstly, One out of Three Essay type questions carrying 5 marks should be given.
 - Second, five out of seven short answer questions should be set carrying 2 marks for each question [5 x 2 = 10 M] with weightage.
 - Third, ten objective type questions should be framed carrying $\frac{1}{2}$ mark for each [10 x $\frac{1}{2}$ = 5 M] with weightage comprising multiple choice answers, fill in the blank questions.
- ✚ Mid II Examination through first two kinds of questions mentioned above for a total of 15 Marks
- ✚ The duration of examination is 1 Hour per paper.
- ✚ Two mid-term examinations as explained above should be conducted, I Mid after completion of 50% syllabus and II Mid after completion of total Syllabus with 35 marks for Mid Exam (Mid -1 for 20 Marks and Mid-2 for 15 Marks).
- ✚ The marks obtained by a student for 50 marks (Total of two Mid exams for 35, Assignments 5, Classroom Activities 5, Clean, Green and Attendance 5) is to be scaled down to 40

K.S.N. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), ANANTHAPURAM
(w.e.f. 2023-24)

B.Sc. MATHEMATICS: Semester-II

COURSE 3 for Major Mathematics & COURSE 1 for Minor Mathematics
DIFFERENTIAL EQUATIONS

MATHEMATICS MODEL PAPER

Time: 3 Hrs

Max. Marks:60

SECTION-A

Answer any FIVE of the following questions.

5 X 4 = 20M

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

SECTION-B

Answer ALL the following questions.

5 X 8 = 40M

9. (a)

(or)

(b)

10. (a)

(or)

(b)

11. (a)

(or)

(b)

12. (a)

(or)

(b)

13. (a)

(or)

(b)

ANNEXURE -IV

K.S.N. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), ANANTHAPURAM

(w.e.f. 2023-24)

SEMESTER-II

COURSE 4: ANALYTICAL SOLID GEOMETRY

Theory Credits: 4 5 hrs/week

Course Outcomes

After successful completion of this course, the student will be able to

1. understand planes and system of planes
2. know the detailed idea of lines
3. understand spheres and their properties
4. know system of spheres and coaxial system of spheres
5. understand various types of cones

Unit – 1

The Plane

Equation of plane in terms of its intercepts on the axis - Equations of the plane through the given points - Length of the perpendicular from a given point to a given plane - Bisectors of angles between two planes - Combined equation of two planes - Orthogonal projection on a plane.

Unit – 2

The Line

Equation of a line - Angle between a line and a plane - The condition that a given line may lie in a given plane - The condition that two given lines are coplanar - Number of arbitrary constants in the equations of straight line - Sets of conditions which determine a line - The shortest distance between two lines - The length and equations of the line of shortest distance between two straight lines - Length of the perpendicular from a given point to a given line.

Unit – 3

The Sphere

Definition and equation of the sphere - Equation of the sphere through four given points - Plane sections of a sphere - Intersection of two spheres - Equation of a circle - Sphere through a given circle - Intersection of a sphere and a line - Power of a point - Tangent plane - Plane of contact; Polar plane - Pole of a Plane - Conjugate points - Conjugate planes.

Unit – 4

Spheres (continued)

Angle of intersection of two spheres - Conditions for two spheres to be orthogonal - Radical plane; Coaxial system of spheres - Simplified form of the equation of two spheres.

G. Subramanian T. Prasad
R. T. Jagan R. Jagan

Unit – 5 Cones

Definitions of a cone – vertex, guiding curve and generators - Equation of the cone with a given vertex and guiding curve - Equations of cones with vertex at origin are homogenous - Condition that the general equation of the second degree should represent a cone - Enveloping cone of a sphere – Right circular cone - Equation of the right circular cone with a given vertex, axis and semi vertical angle.

Activities

Seminar/ Quiz/ Assignments/Three-dimensional analytical Solid geometry and its applications/ Problem Solving Sessions.

Text Book

Analytical Solid Geometry by Shanti Narayan and P.K. Mittal, published by S. Chand & Company Ltd. 7th Edition.

Reference Books

1. A text Book of Analytical Geometry of Three Dimensions, by P.K. Jain and Khaleel Ahmed, published by Wiley Eastern Ltd., 1999.
2. Co-ordinate Geometry of two and three dimensions by P. Balasubrahmanyam, K.Y. Subrahmanyam, G.R. Venkataraman published by TataMcGraw -Hill Publishers.
3. Solid Geometry by B. Rama Bhupal Reddy, published by Spectrum University Press.

BLUE PRINT FOR QUESTION PAPER PATTERN

COURSE 4: ANALYTICAL SOLID GEOMETRY

Unit	TOPIC	S.A.Q.(including choice)	E.Q.(including choice)	Total Marks
I	The Plane	2	2	24
II	The Line	2	2	24
III	The Sphere	2	2	24
IV	Spheres (continued)	1	2	20
V	Cones	1	2	20
Total		8	10	112

S.A.Q. = Short answer questions (4 marks)

E.Q. = Essay questions (8 marks)

Short answer questions: 5 X 4 M = 20 M

Essay questions: 5 X 8 M = 40 M

Total Marks = 60 M

G. Shweta

T. R. Ravi

S. T. Jagan

P. Ravi Sankar

P. Ravi Sankar

K.S.N. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), ANANTHAPURAM
INTERNAL ASSESSMENT EXAM PATTERN
COURSE 4: ANALYTICAL SOLID GEOMETRY
(w.e.f. 2023-24)

S. No.	Type of Assessment	Weightage Assigned
1.	Assignments	5
2.	Project-Work/Seminar/Group Discussion/Quizzes/Presentations	5
3.	Cleaning, Greening and Attendance	5
4.	Testing of knowledge through Mid-term examinations (Mid -1 + Mid -2)	20 + 15
Total		50 (Scale down to 40)

✚ Proposed to conduct Mid I Examination through following three kinds of questions for a total of 20 Marks:

- Firstly, One out of Three Essay type questions carrying 5 marks should be given.
- Second, five out of seven short answer questions should be set carrying 2 marks for each question [$5 \times 2 = 10$ M] with weightage.
- Third, ten objective type questions should be framed carrying $\frac{1}{2}$ mark for each [$10 \times \frac{1}{2} = 5$ M] with weightage comprising multiple choice answers, fill in the blank questions.

✚ Mid II Examination through first two kinds of questions mentioned above for a total of 15 Marks

✚ The duration of examination is 1 Hour per paper.

✚ Two mid-term examinations as explained above should be conducted, I Mid after completion of 50% syllabus and II Mid after completion of total Syllabus with 35 marks for Mid Exam (Mid -1 for 20 Marks and Mid-2 for 15 Marks).

✚ The marks obtained by a student for 50 marks (Total of two Mid exams for 35, Assignments 5, Classroom Activities 5, Clean, Green and Attendance 5) is to be scaled down to 40

K.S.N. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), ANANTHAPURAM

(w.e.f. 2023-24)

B.Sc. MATHEMATICS: Semester-II

COURSE 4: ANALYTICAL SOLID GEOMETRY

MATHEMATICS MODEL PAPER

Time: 3 Hrs

Max. Marks:60

SECTION-A

5 X 4 = 20M

Answer any FIVE of the following questions.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

SECTION-B

5 X 8 = 40M

Answer ALL the following questions.

9. (a)
(b) (or)
10. (a)
(b) (or)
11. (a)
(b) (or)
12. (a)
(b) (or)
13. (a)
(b) (or)

G. Shweta T. R. Reddy



A. T. J. an

G. Shweta T. R. Reddy

ANNEXURE - V

K.S.N. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), ANANTHAPURAM

(w.e.f. 2023-24)

SEMESTER-I

ANALYTICAL SKILLS

Theory	Credits: 2	2 hrs/week
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Course Objective:

Intended to inculcate quantitative analytical skills and reasoning as an inherent ability in students.

Course Outcomes:

After successful completion of this course, the student will be able to;

1. Understand the basic concepts of arithmetic ability, quantitative ability, logical reasoning, business computations and data interpretation and obtain the associated skills.
2. Acquire competency in the use of verbal reasoning.
3. Apply the skills and competencies acquired in the related areas
4. Solve problems pertaining to quantitative ability, logical reasoning and verbal ability inside and outside the campus.

UNIT - 1

Arithmetic ability: Algebraic operations BODMAS, Fractions, Divisibility rules, LCM & GCD (HCF).

Verbal Reasoning: Number Series, Coding & Decoding, Blood relationship, Clocks, Calendars.

UNIT - 2

Quantitative aptitude: Averages, Ratio and proportion, Problems on ages, Time-distance – speed.

Business computations: Percentages, Profit & loss, Partnership, simple compound interest.

UNIT - 3

Data Interpretation: Tabulation, Bar Graphs, Pie Charts, line Graphs. Venn diagrams.

Recommended Co-Curricular Activities: Surprise tests / Viva-Voice / Problem solving/Group discussion.

G. S. M.

T. R. S. D.

R. S. T.

R. S. T.

P. S. D.

Text Book:

Analytical skills textbook published by Society of JKC, Commissionerate of Collegiate Education, Andhra Pradesh

Reference Books

1. Quantitative Aptitude for Competitive Examination by R.S. Agrawal, S.Chand Publications.
2. Analytical skills by Showick Thorpe, published by S Chand And Company Limited, Rammagar, New Delhi-110055
3. Quantitative Aptitude and Reasoning by R V Praveen, PHI publishers.
4. Quantitative Aptitude for Competitive Examination by Abhijit Guha, Tata Mc Graw Hill Publications.



G. Sharma

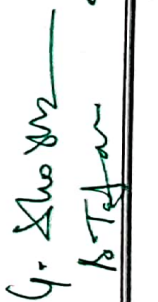
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S. T. J. R. R. R. R. R.

ANNEXURE -VI

K.S.N. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), ANANTHAPURAM PANEL OF EXAMINERS & PAPER SETTERS (w.e.f.2023-24)

Dr. S. Srilakshmi, Lecturer in Mathematics, N.S.P.R. Govt Degree college, Hindupur, Sri Satya Sai(D) Phone: 9866876245 Email: simha_sree@yahoo.com	Sri.B.Ravi, Lecturer in Mathematics Govt. Degree College for Men(A) Ananthapuram Phone: 7702806264 Email: ravidevi19@gmail.com
Dr. Penugurthi Murali Lecturer in Mathematics Govt. Degree College for Men(A) Ananthapuram Phone: Email:	Dr. S. Sreenivasulu Lecturer in Mathematics Govt. Degree College, Rayadurg Ananthapuram Phone: 9440989557 Email: ssreenu1729@gmail.com
P. Siva Prasad Lecturer in Mathematics Govt. Degree College, Kadiri Sri Satya Sai(D) Phone: 9492107731 Email: sasidharmanjunath@gmail.com	Smt. C.Gousia Sultana Choudri Y. V.N.R. Govt Degree College, Kaikaluru, Krishna Dist, Phone: 9640707861 Email: gousia@yvnrgdc.ac.in
Ch Naga Suresh Nekkanti Lecturer in Mathematics Silver Jubilee Govt. Degree College, Kurnool Phone: Email:	Dr. C. Pavithra Lecturer in Mathematics GDC (PVKN)(A), Chittoor Phone: 8074162348 Email: pavithragates@gmail.com
Dr. P. Gayathri Lecturer in Mathematics Govt. Degree College, Puttur, Chittoor Phone: 9533257538 Email: pgayathri.p@gmail.com	Dr. K. Madhavi Lecturer in Mathematics, Govt Degree College, Kuppam-517425. Phone: 9441449589, 7989187842 Email: madhubala2369@gmail.com
DR.S. NAGENDRA Lecturer in Mathematics GDC (M), Kadapa Mobile number:9985165051 Email: sndlpml@gmail.com	Smt. P. Lalitha Lecturer in Mathematics PSC & KVSC Govt. Arts College Nandyal, Kurnool Dist. Email: lalitha.gdc@gmail.com Phone: 9440207451




1.	Kum. T. Renuka Devi Lecturer in Mathematics and HoD K.S.N. GDCW(A), Anantapur	Chairperson	T. Renuka Devi 10/10/23
2.	Prof. G. Shobhalatha Dept. of Mathematics S.K. University, Anantapur	University Nominee	G. Shobhalatha 10/10/2023
3.	Dr. Shaik Jafarunnisa Lecturer in Mathematics Govt. Degree College (M), Kurnool	Subject Expert	S. Jafarunnisa 10/10/23
4.	Smt. Thiriveedi Sunitha Lecturer in Mathematics KVR Govt. Degree College(W)(A), Kurnool	Subject Expert	S. Thiriveedi Sunitha 10/10/23
5.	Smt. Y. Pradeeptha Contract Lecturer in Mathematics K.S.N. GDCW(A), Anantapur	Member	Y. Pradeeptha 10/10/23
6.	Sri. P. Naveen Kumar Digi Brains Academy Anantapur	Industrialist	P. Naveen Kumar 10/10/23
7.	G.Nageswari	Alumni	G. Nageswari