

GOVERNMENT COLLEGE (AUTONOMOUS) :: RAJAMAHENDRAVARAM

(Re-Accredited by NAAC with grade "A+")

DEPARTMENT OF PHYSICS

BOARD OF STUDIES MEETING: 12 /07/ 2024

The Board of studies meeting of DEPARTMENT OF PHYSICS was convened at 10.00AM on 12/07/2024 under the Chairmanship of **Smt. Ch. Komala Lakshmi**, In-charge of the Department. The members present have discussed various aspects such as changes to be made in the Syllabi of New Major System of Physics, Electronics, Material Science and Renewable Energy and old CBCS pattern, related to Physics, Electronics and Renewable Energy Management System. This includes Scheme of Evaluation and Blue print both for theory and practical papers, Departmental activities for 2024-25, Estimated Budget proposals-2024-25 for implementing them effectively during ALL semesters for the academic year 2024-25 .

List of Board of Studies Members Present

S.No	Name	Designation	Signature
1	Smt. Ch. Komala Lakshmi Lecturer In-Charge/HOD, Department of Physics, Government College(A), Rajahmundry	Chairman	
2	All Faculty Members of the Department	Members	
3	Sri PV L Narayana Lecturer in Physics, GDC(W), Nidadavole, W.G.Dist	University Nominee	
4	Sri E.Nageswara Rao Lecturer in Physics, GDC(M), Nidadavole,W.G.Dist	Subject Expert	
5	Dr.N.Udaya sri LecturerinPhysic, D.N.R College, Bhimavaram	Subject Expert	
6	Sri. A.V. Rama Suresh, DDE, APTRANSCO, Rajahmundry	Industry Nominee	
7	Kum. Jasmine Sultana	Student Nominee	

Signatures of the Faculty:

SL.NO	Name of the Faculty	Signature of the Faculty
1	Smt.Ch.Komala Lakshmi	
2	Dr.Lt.Esub Basha shaik	
3	B.Durga Lakshmi	
4	G.Srinivasa Rao	
5	K.Venkateswara Rao	
6	Dr.D.Sanjeev kumar	
7	Y.Ramu	
8	Dr.B.Gowrinaidu	
9	Dr.B.Harinadth Reddy	
10	H.Sudhakara Rao	
11	Dr.K. Bhargavi	
12	Dr.K.Suresh	
13	V.Srinivasa Rao	
14	J.Niranjana Rao	
15	P.Padmavathi	
16	Dr.B.lakshmana Rao	
17	Dr.Ch.Ch.Srinivasu	
18	Dr.P.V.S.S.S.N. Reddy	
19	B.Rajasekhar	
20	N.Venkanna Babu	
21	B.P.V.V.B.Narasimha Rao	
22	Smt.D.Sri Devi	

AGENDA

- Syllabi regarding all semesters of B.Sc program
- Following is the scheme of evaluation for CIA (50MARKS)& SEE (50 MARKS) for all semesters of B.Sc. programs.
- Introducing Institutionalized Internal Examinations for all semesters.
- Following is the Allocation of Credit for all semesters of B.Sc. Program as per previous academic year/Present Major system.
- Offering a eight week “Community Service Project” as a credit course at the end of II semester in I year
- Offering 8 week Internship / On Job Training (OJT) at the end of IV semester in II year
- Offering 6 months Internship/Apprenticeship at the end of V/ VI semester in III year
- Introducing Research Methodology in 7th and 8th semesters.
- Departmental activities for 2024-25 academic year
- Certificate courses offered by the Department of Physics
- Budget proposal for the academic year 2024-25
- List of Examiners
- BOS Certificate

GOVERNMENT COLLEGE (AUTONOMOUS): RAJAHMUNDRY
(Re-Accredited by NAAC with grade "A")

DEPARTMENT OF PHYSICS

BOARD OF STUDIES MEETING HELD ON 12/07/2024

RESOLUTIONS

Agenda 1: Syllabi regarding all semesters of B.Sc. program.

Proposal: It is presented before the BOS members to ratify and approve the syllabi.

Discussion:

- ❖ The members of BOS discussed about inclusion and deletion of the syllabi
- ❖ The major systems introduced in Physics, Material Science, Renewable Energy and Electronics.
- ❖ Physics as the Major offering 4 year course as honours with research.
- ❖ Material Science, Renewable Energy and Electronics are offered as Majors with 3 Year Degree Course.
- ❖ Subject expert proposed to conduct activities related to hands on experience for every given module.
- ❖ For this Academic year 2024-25 the semesters III, IV, V & IV follows CBCS pattern and semester I and II adopted the Major system.
- ❖ Chairman of BOS proposed that since the student has given the choice to do any 6 of the proposed experiments, It would be comfortable related experiments to theory should be given priority and also consider the experiments as per the equipment available as said in last BOS
- ❖ University nominee proposed to introduce research oriented community based project for the students to encourage the young generation towards research as well as social responsibility
- ❖ Subject experts proposed to continue the same syllabus for the second and final year as this common system is going to vanish in coming two years
- ❖ University nominee proposed to increase the budget to accommodate the physics labs as per the requirements

Agenda 2:

Following the scheme of evaluation for CIA (50 MARKS) & SEE (50 MARKS) for all the semesters of B.Sc. program and the Scheme of Examination and Blue print of Semester End Examination (SEE) for all Semesters of B.Sc., for the academic year 2024-25 in continuation with the academic years 2022-23 & 2021-22

Proposal:

It is presented before the BOS members to ratify and approve CIA: SEE = 50:50 for all semesters.

The pattern is furnished below

Examination	No. of Marks	Remarks
Semester end examination	50	Model of examination pattern furnished below
Internal examination	50 Direct assessment - 20 Indirect assessment-30	Mid examination(Offline) -20 marks MCQ exam(Online) -10marks Attendance -05marks Assignment -05marks Any TWO Pedagogy methods (Quiz, classroom seminar, Assignment or Case study, Test, puzzles, sviva) -10 marks (2X5) And few more innovative Methods followed by individual lecturer)

SCHEME FOR SEMESTER END THEORY EXAMINATION (SEE) – (Major1 /Major-2)

TYPE OF QUESTION	MARKS	SCHE ME
PART-A Essay Questions	Each question carries 10 Marks 3x10 = 30 M	Answer Any three out of given 5 questions questions 1. Theoretical Questions Not more than one question from Each unit
PART-B Short Answer Questions	Each question carries 1 Marks 20x1= 20 M	Answer any 5 out of 8 questions <ul style="list-style-type: none"> ● Objective Type Questions <ul style="list-style-type: none"> ● Not more than 4 question from Each unit. ● It May includes <ul style="list-style-type: none"> ● Matchings ● One word Answers ● Fill in the Blanks ● Very Short answers

SCHEME FOR SEMESTER END THEORY EXAMINATION (SEE) – (M.D.-Principles of the Physical Sciences)

TYPE OF QUESTION	MARKS	SCHE ME
<p align="center">PART-A</p> <p>Short Answer Questions</p>	<p>Each question carries 5 Marks</p> <p>4x5 = 20 M</p>	<p>Answer Any 4 out of given 8 questions</p> <p>1. Theoretical Short Answer Questions Not more than three question from Each unit</p>
<p align="center">PART-B</p> <p>Essay Type Answer Questions</p>	<p>Each question carries 1 Marks</p> <p>3x10= 30 M</p>	<p>Answer any 3 out of 6 questions</p> <ul style="list-style-type: none"> • Essay Type Questions • Not more than 2 question from Each unit.

SCHEME FOR INTERNAL (ODD SEM) & EXTERNAL (EVEN SEM) PRACTICAL EXAMINATION:

S.No	Description	Marks
1	Formula	05
2	Tabular Form & Readings	10
3	Calculations & Result (Including Graph)	15
4	Precautions & Units	05
5	Viva-Voce	05
6	Record**	10
7	TOTAL	50
INTERNAL SEE (ODD SEM): 50M		
EXTERNAL SEE (EVEN SEM): 50 M		

** Award of marks for number of practicals recorded in the Record

6 Practical	- 10
05 Practical	- 08
04 Practical	- 06
03 Practical	- 04
Less than 03	- 00

Agenda 3: Introducing Institutionalized Internal Examinations

Proposal: It is presented before the BOS members to consider and approve the above agenda 3

Agenda 4: Following the Allocation of Credits for all semesters of B.Sc. Program as per previous academic year/for first year based on the major system in to consideration.

Proposal: It is presented before the BOS members to consider and approve the above agenda 4

Agenda 5: Introducing student activity in major system

Proposal: It is proposed before the BOS members to consider and approve the agenda 5 in all major system courses offered by the Department of Physics & Electronics.

Agenda 6: Introducing and offering multi-disciplinary course “Principles of Physical Sciences” in major systems for other disciplines.

Proposal: It is proposed before the BOS members to consider and approve the agenda 6 in all major system courses offered by the Department of Physics & Electronics

Agenda 7: Offering one “Community Service Project” as accredit course to I year students who are to be promoted to II Year during summer vacation;

Proposal: It is presented before the BOS members to consider and approve the above agenda 7.

Agenda 8: Offering Internship/ On Job Training (OJT) as credit course to II year students who are to be promoted to III year during the vacation.

Proposal: It is presented before the BOS members to consider and approve the above agenda 8.

Agenda 9: Offering Internships/ Apprenticeship for 6 Months in any Industry as credit course to III year students in V \ VI semester as a completion of UG Course.

Proposal: It is presented before the BOS members to consider and approve the above agenda 9.

Agenda 10: Introducing and offering Research Methodology in Physics major (4 year) for SEM VII & VIII

Proposal: It is proposed before BOS members to consider and approve agenda 10

Agenda 11: Introducing B.Sc IV year for 2020-21 admitted students to 2022-23 admitted Batch (Before Major System admitted batch)

Proposal: It is presented before the BOS members to consider and approve the above agenda 11.

Agenda 12: Departmental activities for 2024-25 academic years

Proposal: It is presented before the BOS members to consider and approve the above agenda 12

Agenda 13: Certificate courses offered by the Department of Physics.

Proposal: It is presented before the BOS members to consider and approve the above agenda 13

Agenda 14: Departmental Proposed Activities for the academic year 2024-25

Proposal: It is presented before the BOS members to consider and approve the above agenda 14

Agenda 15: List of examiners

Proposal: It is presented before the BOS members to consider and approve the above agenda 14

Agenda 16: Budget proposal for the academic year 2024-25

Proposal: It is presented before the BOS members to consider and approve the above agenda 15

The Following Resolutions are made based on the above Agenda and proposals furnished from 1 to 14s.

Resolutions:

It is resolved to follow the syllabi for single major & minor systems for SEM I & II of this academic year 2024-25 as it was first time introduced as per NEP 2020, and CBCS system for SEM III, IV, V & VI

It is resolved and approved to evaluate the student's performance under Continuous Internal Assessment (CIA) and Semester End Examination (SEE) components at 50:50 ratio for **all the semesters** of B.Sc., Program for the academic year 2023–24. The duration of the Examination is 2:30 hrs. It is also resolved to follow the Scheme of Examination and Blue print of Semester End Examination (SEE) for all the semesters of B.Sc for the academic year 2024-25 in continuation with the previous academic year.

It is also resolved, no inclusion or deletion of syllabi for this academic year as the common subject system is going to vanish within two years.

It is resolved to approve the above proposals and the syllabi designed under the flexibility of autonomy for I, II, III, IV, V and VI Semesters of B.Sc., considering the syllabi based on feedback from stake holders and local needs of Industry and members of BOS for the academic year 2024-25.

It is resolved to approve the inclusion of institutionalized internal exam in CIA for all Semesters.

It is resolved and approved to follow the Allocation of Credits for all semesters except I and II of B.Sc. Program as per previous academic year and for semester I and II as per the major system introduced.

It is resolved to approve all the student based activity introduced in major systems of all disciplines.

It is also resolved to approve "Principles of Physical Sciences" as multi-disciplinary course for SEM I students.

It is resolved and approved the above proposals and to offer various "Community Service Projects" as accredit course to I year students who are to be promoted to II Year.

Examples of "Community Service Project" offered by the department are as follows...

- Collecting the data of Covid19 affected teenagers i.e., below 18 years in your area
- Impact of Covid-19 on street vendors
- Community disease analysis
- Ground water analysis
- Case study on street beggars and motivating them towards daily workers rather than begging.
- Usage of Renewable Energy Sources
- Usage of Mobile Phones and their Advantages and Disadvantages
- Solid Waste Management
- E-Waste Management.

It is resolved to approve 2 months On Job Training for the students after completion of II year (semester IV) to as to promote to III year UG course.

It is resolved to approve for offering Internships/Apprenticeship for 6 Months in any Industry as credit course to III year students in V VI semester as a completion of UG Course.

It is resolved and approved introducing of Research Methodology in SEM VII & VIII of Physics major.

It is resolved and approve introduced 4th year syllabus for the students admitted in bach 2020-21 to 2022-23. (before Major system comes into exsistance)

It is resolved to accept proposed list of experiments for the list of experiments. It is also resolved to approve the prescribed books for the proposed syllabus.

It is resolved and approved the above proposal and to follow the Departmental activities for 2024-25 academic year as per the date given.

It is resolved to continue the Certificate courses “House Hold Electrical Wiring” and “Principles of Photography” from the Department of Physics in continuation with the previous academic year.

It is resolved to approved the revised list of examiners and paper setters for the academic year 2024-25. List annexed.

It is resolved and approved the above proposal and to double the budget proposed amount in order to meet the required out comes in laboratories, as suggested by the University nominee.

Date: 30 Aug. 2023

Chairman
Board of Studies
Department of PHYSICS