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B.Sc. II YEAR SEMESTER III & IV

DEPARTMENT OF PHYSICS

2017-2018

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD (AUTONOMOUS) DEPARTMENT OF PHYSICS BOARD OF STUDIES Academic Year - 2017-18 Minutes of BOS Meeting

BOS meeting of the Department of Physics held on 21st August 2017, at 1:00PM The following members were present

The following members were present

Prof. C. Vishnu Vardhan Reddy -

University Nominee

Smt. Jyoti Hastak

Chairperson

Boold of Studies in Physics Demania University, Hyd.

Dr. G. Prasad

Member

Prof. M. V. Ramana Reddy

Member

Mrs. Kirana

Member

2.1 Welcome address by the chair

The chair welcomed the University Nominee and O.U Department of Physics and Members of B.O.S.

2.2 Previous meeting details.

Smt. Jyoti Hastak informed the respective members regarding the previous meeting which was held on 26th September 2016. She informed that from the academic year 2012-2013 onwards Hindi Mahavidyalaya was granted Autonomous status for the period of 6 years. College has implemented semester system as required under Autonomy for the last 5 years.

2.3 Details of choice based credit system.

Members were informed that TSCHE has referred that from the academic year 2016-17 autonomous institutions have to follow CBCS i.e. From the Academic Year 2016-17 Osmania University has instructed all the Degree colleges including Autonomous Degree colleges to follow CBCS under which after passing the exam student will get the Grade in the Final Result. 4 Credits are given for theory paper and 1 credit is given for practical in each semester.

2.4 Discussion and Distribution of Common Core Syllabus and Skill Enhancement Course.

iii. Members were informed by the chair that Department of Physics. Hindi Mahavidyalaya is following common core syllabus prescribed by Osmania University for B.Sc II Year for Semester III and IV. iv. We are adopting Osmania University same syllabus of each Semester as it is with minor changes in theory papers of Semester III and IV.

Syllabus copy for both the semesters is enclosed. Syllabus was approved by the Members of BOS.

2.4 Marks allotted for Internal and End Semester exams.

- Internal assessment is of 20 marks. (15M for Internal + 5 M for assignment). In each
 Semester two internal assessment of 15 Marks will be conducted and an average of
 both the internal assessments will be added in the marks of Theory exam.
- Theory Question paper is of 80 marks.
- 3. Total allotted marks are 100.

The distribution of marks was approved by the Members of BOS.

2.5 Discussion on Pattern and Model Paper of Semester exam and Model Paper of Internal Exam

 It was informed by the department that in each Semester Two Internal exams will be conducted for 15 marks. The internal assessment will have three sections.

Section - A 10 Multiple choice questions each carries 1/2 marks (10* 1/2 = 5M),

Section - B 10 Fill in the blanks each carries 1/2 marks (10° 1/2 = 5M) and

Section – C 5 short notes each 1mark (5°1=5)

Average of marks of these two internal exams will be taken. 5 marks will be allotted for assignment.

- Semester exam will be conducted as per the Almanac which will be provided by the exam branch. Internal exam duration will be 30Mts and Semester exam duration will be of 3 hrs.
- Model Question paper for Semester III and Semester IV was discussed. Theory paper for each Semester will have 2 sections.
 - Section A contains 8 short Questions. The student has to answer four questions. Each question carries 5 Marks (4X5=20 Marks)
 - ii) Section B contains 4 Essay type Questions with internal choice. Each question carries 15 Marks (4X15=60 Marks)
- Pattern of Model Theory Question Papers for DSC Paper III and Paper IV are enclosed.
- Pattern of Model Theory Question Papers for DSC was approved by Member of BOS.

2.6 Discussion on Practical Exam Model paper.

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It was decided in BOS meeting that 50 Marks Practical Exam of 3 hrs will be held in each Semester and 1 credit will be given for Practical in each Semester.

- Pattern of Model Practical Question Papers for Paper III and Paper IV are enclosed.
- Pattern of Model Practical Question Papers was approved by Members of BOS

Panel of Examiners 2.7

The panel of examiners was approved by the members.

- List is enclosed
- Any other matter. 2.8
- Vote of Thanks 2.9

Meeting concluded with the Vote of Thanks by Sri Devarshi Gangaji

Chairperson

University Nominee

Members

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD (AUTONOMOUS) BOARD OF STUDIES DEPARTMENT OF PHYSICS

COMPOSITION OF THE BOARD OF STUDIES IN AN AUTONOMOUS COLLEGE

- Head of the department concerned (Chairperson)
 Smt. Jyothi Hastak Department of physics
- The entire faculty of each specialization.
 Mr. Devarshi Gangaji
- One expert to be nominated by the vice-chancellor from a panel if six recommended by the College Principal.

Prof.C. Vishnu Vardhan Reddy Chairman, BOS, Dept. of Physics

- Three experts in the subject from outside the college to be nominated by the Academic Council.
 Dr. G.Prasad, Head of Physics Department, Osamnia University.
 Prof. M. V. Ramana Reddy, Professor, Department of Physics, Osmania University, Hyderabad.
 Mrs K.Kirana, Asst Prof-Department of Physics, Osmania University, Hyderabad.
- 5. Alumni: Shri Kailash

Chairperson

University Physics In Physics In

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2017-18 CBCS STRUCTURE

SCHEME OF INSTRUCTIONS & EVALUATION

B.SC. MPCS/MSCS

8.50	B.S.C. M. P.C.S. M. S.C.S.									
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SECO	SECOND YEAR SEMESTER-III			-	Semester End exam	Semester End exam	Internal Evaluation	nal ation	Total	Practical
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BS305	BS305 PHYSICS / STATISTICS	DSC-2C	41+2p=6	4+1=5	က	80	30 min	20	100	20
85306	BS306 COMPUTER SCIENCE	DSC-3C	4T+2P=6	4+1=5	С	80	30 min	20	100	20
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2017-18 CBCS STRUCTURE

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD (AUTONOMOUS)

B.Sc II Year Semester - III & IV PHYSICS

Practical Model Question Paper III & IV

Time - 3 Hrs

Max. Marks: 50

1. One Practical Question Paper

30 Marks

2. Record

10 Marks

3. Viva

10 Marks

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD (AUTONOMOUS)

B.Sc. II Year Semester III

Physics

Paper - III

Thermodynamics

Subject Code:

Theory Classes
Duration of the Semester Examination
Duration of the Internal Examination
Semester Examination
Internal Examination
No of Credits

4 Hrs/ Week
3 Hrs
30 Minutes
80 Marks
For Credits
5 Credits

Objective:

Aim of the department is to impart the knowledge of basic concepts in physics, through theory and practicals.

Unit - 1

1. Kinetic theory of gases: (6)

Introduction – Deduction of Maxwell's law of distribution of molecular speeds, Transport Phenomena – Viscosity of gases – thermal conductivity – diffusion of gases.

2. Thermodynamics: (8)

Basics of thermodynamics-Kelvin's and Claussius statements – Thermodynamic scale of temperature – Entropy, physical significance – Change in entropy in reversible and irreversible processes – Entropy and disorder – Entropy of universe – Temperature-Entropy (T-S) diagram – Change of entropy of a perfect gas-change of entropy when ice changes into steam.

Unit - II

3. Thermodynamic potentials and Maxwell's equations: (7)

Thermodynamic potentials – Derivation of Maxwell's thermodynamic relations – Clausius-Clayperon's equation – Derivation for ratio of specific heats – Derivation for difference of two specific heats for perfect gas. Joule Kelvin effect – expression for Joule Kelvin coefficient for perfect and Vanderwaal's gas.

4. Low temperature Physics: (7)

Joule Kelvin effect – liquefaction of gas using porous plug experiment. Joule expansion-Distinction between adiabatic and Joule Thomson expansion – Expression for Joule Thomson cooling – Liquefaction of helium, Kapitza's method – Adiabatic demagnetization – Production of low temperatures – Principle of refrigeration, vapour compression type.

Unit - III

5. Quantum theory of radiation: (14) Black body-Ferry's black body – distribution of energy in the spectrum of Black body – Wein's displacement law, Wein's law, Rayleigh-Jean's law – Quantum theory of Wein's displacement law, Wein's law, Rayleigh-Jean's law, Rayleigh-Jeans law, radiation – Planck's law – deduction of Wein's distribution law, Rayleigh-Jeans law, Stefan's law from Planck's law. Measurement of radiation using pyrometers – Disappearing filament optical pyrometer – experimental determination – Angstrom pyroheliometer - determination of solar constant, effective temperature of sun.

Unit - IV

6. Statistical Mechanics: (14)

Introduction, postulates of statistical mechanics. Phase space, concept of ensembles and some known ensembles ,classical and quantum statistics and their differences, concept of probability, Maxwell-Boltzmann's distribution law -Molecular energies in an ideal gas-Maxwell-Boltzmann's velocity distribution law, Bose-Einstein Distribution law, Fermi-Dirac Distribution law, comparison of three distribution laws, Application of B-E distribution to Photons-planks radiation formula, Application of Fermi-Dirac statistics to white dwarfs and Neutron stars.

Textbooks

- 1. Fundamentals of Physics. Halliday/Resnick/Walker.C. Wiley India Edition 2007.
- 2. Second Year Physics Telugu Academy.
- 3. Modern Physics by R. Murugeshan and Kiruthiga Siva Prasath (for statistical Mechanics) S. Chand & Co.
- 4. Heat and Thermodynamics by Mark W.Zemansky 5th edition Mc Graw Hill
- 5. Heat and Thermodynamics by D.S. Mathur.

Reference Books

- 1. Modern Physics by G. Aruldhas and P. Rajagopal, Eastern Economy Education.
- 2. Berkeley Physics Course. Volume-5. Statistical Physics by F. Reif. The McGraw-Hill Companies.
- 3. An Introduction to Thermal Physics by Daniel V. Schroeder, Pearson Education Low Price Edition.
- 4. Thermodynamics by R.C. Srivastava, Subit K. Saha&Abhay K. Jain Eastern Economy Edition.
- 5. Modern Engineering Physics by A.S. Vasudeva. S.Chand& Co. Publications.
- 6. Feyman's Lectures on Physics Vol. 1,2,3& 4. Narosa Publications.
- 7. Fundamentals of Optics by Jenkins A. Francis and White E. Harvey, McGraw Hill Inc.
- 8 . B.B. Laud "Introduction to statistics Mechanics" (Macmillan 1981)
- F.Reif: "Statistical Physics "(Mcgraw-Hill, 1998) 10.K. Haung: "Statistical Physics "(Wiley Eastern 1988)

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD (AUTONOMOUS)

B.Sc. II Year Semester III
Physics

Paper - III

Practical Paper: Thermodynamics

1. Co-efficient of thermal conductivity of a bad conductor by Lee's method.

Measurement of Stefan's constant.

3. Specific heat of a liquid by applying Newton's law of cooling correction.

Heating efficiency of electrical kettle with varying voltages. -

5. Determination of Thermo emf. -

6. Cooling Curve of a metallic body (Null method)

7. Resistance thermometer. To Determine temp coeff resistance

8. Thermal expansion of solids

9. Study of mechanical energy to heat.

10. Determine the Specific of a solid (graphite rod) -

11 Thermistor Characteristics. Calculation of A and B -

Note: Minimum of eight experiments should be performed. Maximum of 15 students per batch and maximum of three students per experiment should be allotted in the regular practical class of three hours per week.

Text and reference books

- 1. D.P. Khandelwal, "A laboratory manual for undergraduate classes" (Vani Publishing House, New Delhi).
- 2. S.P. Singh, "Advanced Practical Physics" (PragatiPrakashan, Meerut).
- 3. Worsnop and Flint- Advanced Practical physics for students.
- 4. "Practical Physics" R.K Shukla, AnchalSrivastava

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University

CHAIRMAN
Physics

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD (AUTONOMOUS)

B.Sc. II Year Semester IV

Physics

Paper - IV

OPTICS

Subject Code:

4 Hrs/ Week

Theory Classes

3 Hrs

Duration of the Semester Examination Duration of the Internal Examination

30 Minutes

Semester Examination

80 Marks

Internal Examination

20 Marks

No of Credits

5 Credits

Objective:

Aim of the department is to impart the knowledge of basic concepts in physics, through theory and practicals.

Unit I

1 Interference: (14)

Principle of superposition - coherence - temporal coherence and spatial coherence conditions for Interference of light

Interference by division of wave front: Fresnel's biprism - determination of wave length of light. Determination of thickness of a transparent material using Biprism change of phase on reflection - Lloyd's mirror experiment.

Interference by division of amplitude: Oblique incidence of a plane wave on a thin film due to reflected and transmitted light (Cosine law) - Colours of thin films - Non reflecting films - interference by a plane parallel film illuminated by a point source -Interference by a film with two non-parallel reflecting surfaces (Wedge shaped film) -Determination of diameter of wire-Newton's rings in reflected light with and without contact between lens and glass plate, Newton's rings in transmitted light (Haidinger Fringes) - Determination of wave length of monochromatic light - Michelson Interferometer - types of fringes - Determination of wavelength of monochromatic light, Difference in wavelength of sodium D₁,D₂ lines and thickness of a thin transparent plate.

Unit II:

2 Diffraction: (14)

Introduction – Distinction between Fresnel and Fraunhoffer diffraction Fraunhoffer diffraction: Diffraction due to single slit and circular aperture – Limit of resolution – Fraunhoffer diffraction due to double slit – Fraunhoffer diffraction pattern with N slits (diffraction grating)

Resolving Power of grating – Determination of wave length of light in normal and oblique incidence methods using diffraction grating. Fresnel diffraction-Fresnel's half period zones – area of the half period zones – zone plate – Comparison of zone plate with convex lens – Phase reversal zone plate – diffraction at a straight edge – difference between interference and diffraction.

Unit III:

3 Polarization (14)

Polarized light: Methods of Polarization, Polarization by reflection, refraction, Double refraction, selective absorption, scattering of light — Brewsters law — Malus law — Nicol prism polarizer and analyzer — Refraction of plane wave incident on negative and positive crystals (Huygen's explanation) — Quarter wave plate, Half wave plate — Babinet's compensator — Optical activity, analysis of light by Laurent's half shade polarimeter.

Unit IV:

3

4 Aberrations and Fiber Optics: (14)

Introduction – Monochromatic aberrations, spherical aberration, methods of minimizing spherical aberration, coma, astigmatism and curvature of field, distortion. Chromatic aberration – the achromatic doublet – Removal of chromatic aberration of a separated doublet.

Fiber Optics: Introduction – Optical fibers – Principles of fiber communication – Step and graded index fibers – Rays and modes in an optical fiber – Fiber material – Types of optical fibers and advantages of fiber communication.

NOTE: Problems should be solved at the end of every chapter of all units.

Textbooks

- Optics by AjoyGhatak. The McGraw-Hill companies.
- 2. Optics by Subramaniyam and Brijlal. S. Chand & Co.
- 3. Fundamentals of Physics. Halliday/Resnick/Walker.C. Wiley India Edition 2007.
- 4. Optics and Spectroscopy. R. Murugeshan and Kiruthiga Siva Prasath. S. Chand & Co.
- 5. Second Year Physics Telugu Academy.

Reference Books

- 1. Modern Engineering Physics by A.S. Vasudeva. S.Chand & Co. Publications.
- 2. Feyman's Lectures on Physics Vol. 1,2,3& 4. Narosa Publications.
- 3. Fundamentals of Optics by Jenkins A. Francis and White E. Harvey, McGrow Hill Inc.
- 4. K. Ghatak, Physical Optics'
- 5. D.P. Khandelwal, Optical and Atomic Physics' (Himalaya Publishing House, Bombay, 1988)
- 6. Jenkins and White; "Fundamental of Optics' (McGraw-Hill)
- 7. Smith and Thomson: "Optics' (John Wiley and sons)

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD (AUTONOMOUS)

B.Sc. II Year Semester IV Physics Paper - IV Practical-OPTICS

- 1. Thickness of a wire using wedge method.
- Determination of wavelength of light using Biprism.
- Determination of Radius of curvature of a given convex lens by forming Newton2s rings.
- Resolving power of grating.
- 5. Study of optical rotation-polarimeter.
- Dispersive power of a prism
- Determination of wavelength of light using diffraction grating minimum deviation method.
- 8. Wavelength of light using diffraction grating normal incidence method.
- Resolving power of a telescope.
- Refractive index of a liquid and glass (Boys Method).
- 11. Pulfrich refractometer determination of refractive index of liquid.
- 12. Wavelength of Laser light using diffraction grating.

Note: Minimum of eight experiments should be performed.

Maximum of 15 students per batch and maximum of three students per experiment should be allotted in the regular practical class of three hours per week.

Text and reference books

- 1. D.P. Khandelwal, "A laboratory manual for undergraduate classes" (Vani Publishing House, New Delhi).
- 2. S.P. Singh, "Advanced Practical Physics" (Pragati Prakashan, Meerut).
- 3. Worsnop and Flint- Advanced Practical physics for students.
- 4. "Practical Physics" R.K Shukla, AnchalSrivastava

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD (AUTONOMOUS)

B.Sc II Year Semester - III & IV

PHYSICS

Paper - III & IV

Theory Question Paper Pattern

Time: 3 hrs

Max. Marks: 80

SECTION A

I Write any Four of the following (Short Questions)

4 X5 = 20 Marks

- 1. A Question from Unit I
- 2. A Question from Unit I
- 3. A Question from Unit II
- 4. A Question from Unit II
- 5. A Question from Unit III
- 6. A Question from Unit III
- 7. A Question from Unit IV
- 8. A Question from Unit IV

SECTION B

II Essay Questions. Answer all the Questions

4 X 15= 60 Marks

- 9. (a) A Question from Unit ! (OR)
 - (b) A Question from Unit I
- 10. (a). A Question from Unit II (OR)
 - (b). A Question from Unit II
- 11. (a) A Question from Unit III

 - (b) A Question from Unit III
- 12. (a) A Question from Unit IV

(OR)

(b) A Question from Unit IV

Chairperson

Osmania University, Hyd.

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD (AUTONOMOUS) B.Sc II Year Semester – III & IV PHYSICS

Scheme of Model Question For Paper III & IV

Time – 3 Hrs Semester Exam Pattern	80 Marks
Semester Fyam Pattern	80 Marks
- suresian English Bettern	
Section – A 8 Short Answer Questions Answer any four Each carries 5 marks	4 X 5 = 20 Marks
Section—B - 4 Long answer questionswith internal choice	4 X 15 = 60 Marks
Lacii cames is Marks	Total Marks = 80
Internal Assessment Pattern 20 Marks	Duration - 30 Min
In Internal Assessment there will be 3 sections	
Sections A 10 –Multiple choice questions 10 X ½ =5 Marks	
Section –B 10—Fill in the Blanks 10 X ½ =5 Marks	CHAIRMAN PRIVA
Section –C 5 - Short Answer Questions 5 X 1= 5Marks	Semania University
15 Marks)en
Two Internal Assessment Average is to be considered 15+15 = 15 Mar	ks
One Assignment to be given 5 Marks	
Internal Assessment Total 20 Marks	

Note: Equal Weightage has to be given to all units in each semester

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD (AUTONOMOUS)

Department of Physics Panel of Examiners

S.N	Name and Designation	Mobile No
1	D.Sreedevi Head Department Of Physics New Science College	9701893897
2	Tancerpet Hyo	1
4	Dr.Sarala Department of physics	9440750244
	St. Anns Degree College for women	
-	mendipatnam	
3.	Mrs.Kirana	9966017561
	Assistant Professor	333301/301
	Department of Physics	
	Osmania university	
4.	Dr.somayya	9849154671
	University college of science saifabad	3073134071
	Osmania university	
5.	Dr.MV prasad	9849553669
	Assistant Professor	9849333009
	Department of Physics	
	Osmania university	
5.	Dr.Upender	
	Assistant Professor	
	Department of Physics	
	Osmania university	
	Dr.Aparna	
	Assistant Professor	
	Department of Physics (OU Engineering.)	
	Osmania university	
	Osmania amversity	
3	D.Srinivas	9849671840
	Assistant Professor	
	Department of Physics (OU Engineering.)	
- 1	Osmania university	

Chairperson

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Prof. M. V.Ramana Roddy

Department of Physics

University College of Science

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2020-4) CBCS STRUCTURE

SCHEME OF INSTRUCTIONS & EVALUATION

B.SC. MPCS/MSCS

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	TOTAL NO. OF CREDITS	COMPUTER SCIENCE	PHYSICS / STATISTICS	MATHS	Second Language (H/ S/ T)	English	Gender sensitization	Course Title	FIRST YEAR SEMESTER-II
7		DSC-3B	DSC-2B	DSC-18	CC-2B	CC-18	AECC-2	Course	
		47+3P=7	4T+3P=7	4T+3P=7	5	5	2	HPW	
54	27	4+1=5	4+1=5	4+1=5	5	5	2	Credits	
		24	2/2	みた	24.77	24	2	Duration in HRS	Semester End exam
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SCHEME OF INSTRUCTION

B.Sc. I YEAR SEMESTER I & II DEPARTMENT OF PHYSICS (2020-2021)

Semester	THEORY/ PRACTICAL	TITLE	WORKLOAD	CREDITS
			Hrs/week	
	THEORY-I	Mechanics	4	4
	PRACTICAL-I			1
	- MACTICAL-I	Mechanics	3	1
11	71100	Practical's		
	THEORY-II	Thermal Physics	4	4
	PRACTICAL-II	Thermal Physics	3	1
		Practical's		

Chairperson University Nominee

Department of Physics

Hindi Mahavidyalaya

Hindi Mahavidyala

Members

HINDI AHAOMOUSI HINDI AUTONORCO & Screen (AUTONORCO & Screen Arts. Common Hydorabad. Naliakunta. Hydorabad.

3. Prof. M. V. Han of Physics

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