

Anjuman-e-Islam's
NEHRU ARTS, SCIENCE, COMMERCE COLLEGE
GHANTIKERI, HUBLI-580 020

Department of Physics

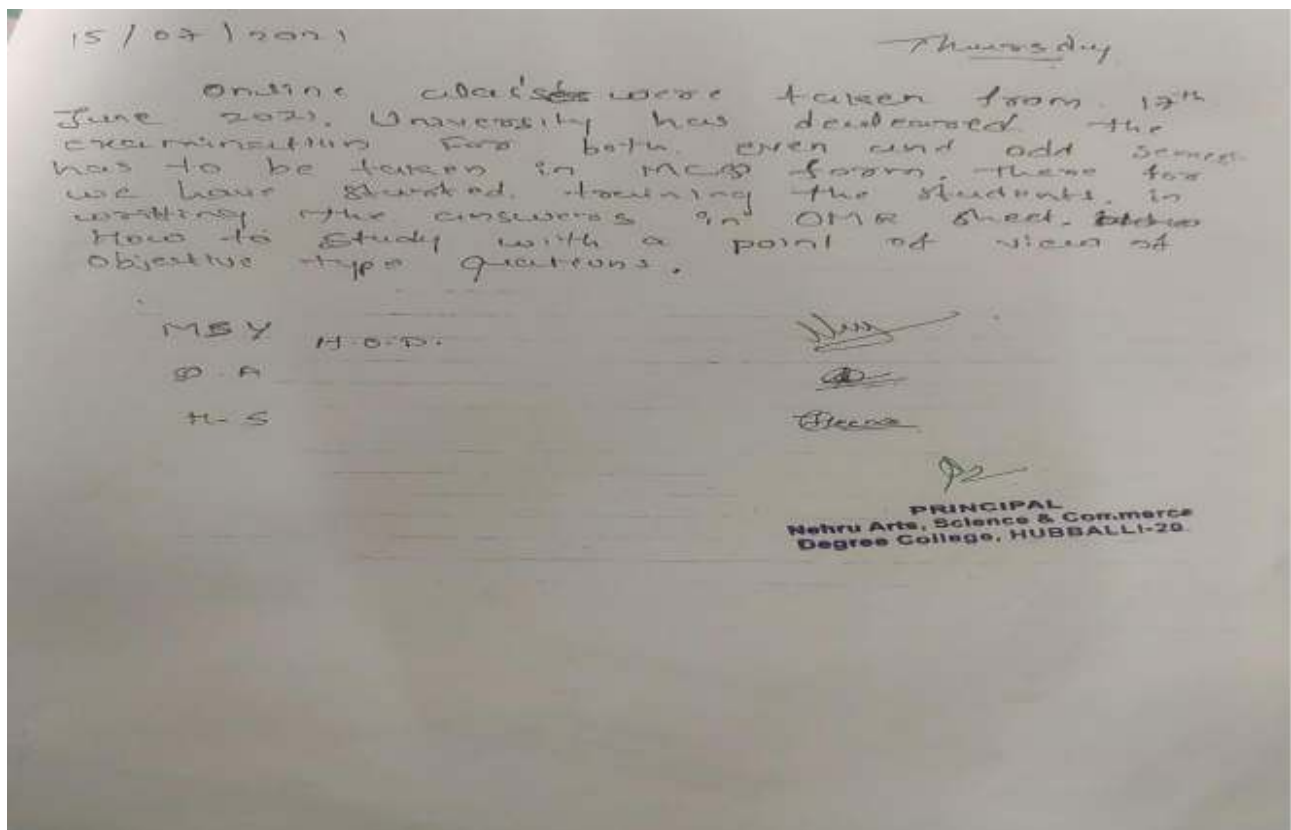
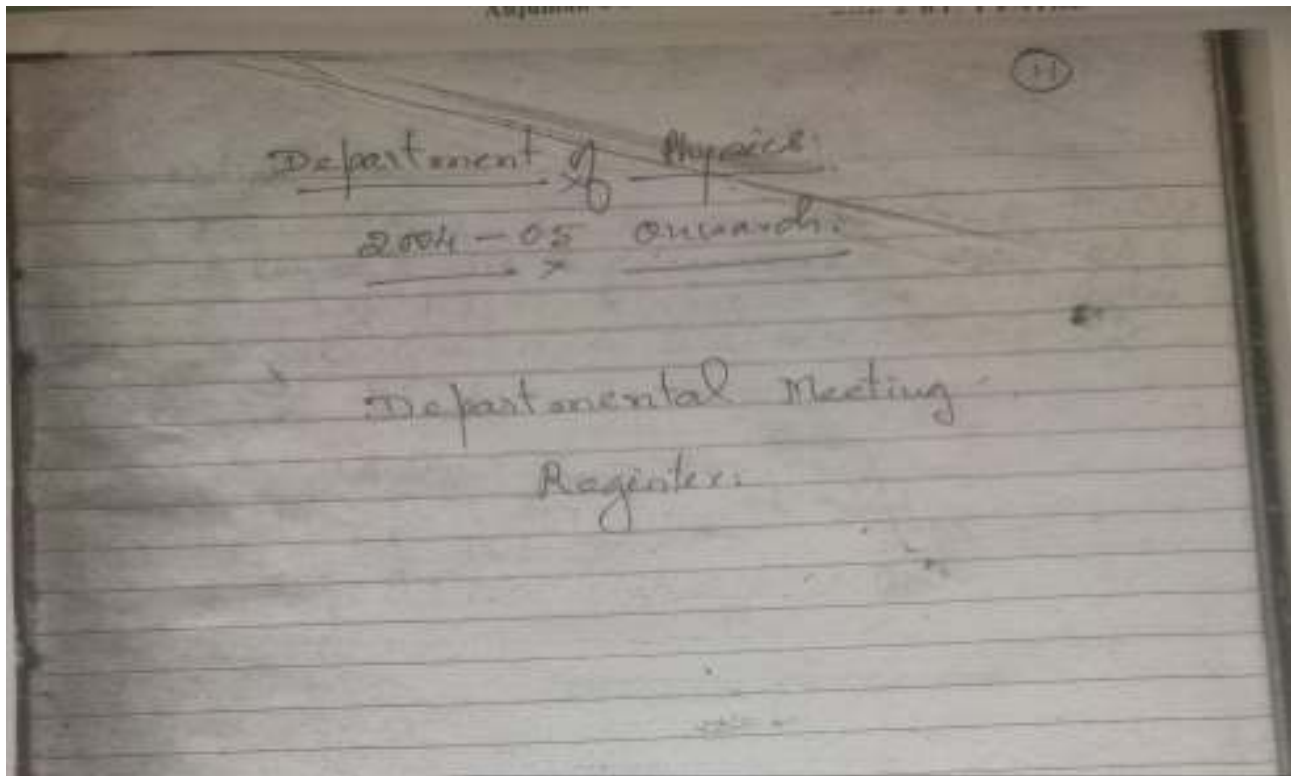
Criteria – I

(2020-2021)

Documents

- Department meeting register
- Timetable
- Calendar of events
- Unitization
- Seminar
- ICT Class
- Test marks
- Remedial class
- Assignments
- Department Library
- MOU s
- Question paper sample

1. Department meeting register



2. Time table

Anjuman-e-Islam's
NEHRU ARTS, SCIENCE, COMMERCE DEGREE COLLEGE & P.G. CENTRE
GHANTIKERL, HUBBALLI-580 020
DEPARTMENT OF PHYSICS - TIME TABLE FOR THE ACC YEAR 2020 – 2021

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
09.00 10.00	B Sc sem- V/VI <i>Qudsiya</i>					
10.00 11.00	B Sc sem- I/II <i>M S Yatnati</i>	B Sc sem- I/II <i>Heena s</i>	B Sc sem- V/VI <i>Heena s</i>	B Sc sem- I/II <i>Heena s</i>		B Sc sem- I/II <i>Qudsiya</i>
	B Sc sem- III/IV <i>Heena s</i>					
11.15 12.15		B Sc sem- III/IV <i>M S Yatnati</i>	B Sc sem- I/II <i>M S Yatnati</i>		B Sc sem- V/VI <i>M S Yatnati</i>	B Sc sem- III/IV <i>M S Yatnati</i>
			B Sc sem- III/IV <i>Qudsiya</i>	B Sc sem- III/IV <i>Qudsiya</i>		
12.15 01.15		B Sc sem- V/VI <i>M S Yatnati</i>		B Sc sem- V/VI <i>M S Yatnati</i>		B Sc sem- V/VI <i>M S Yatnati</i>
01.15 02.15						
PRACTICAL						
02.30 06.30	B Sc sem- V/VI -B1&B2 PRA-1 <i>Yatnati & Qudsiya</i>	B Sc sem- V/VI -B3 PRA-1 <i>Yatnati</i>	B Sc sem- V/VI -B1&B2 PRA-2 <i>Qudsiya & Yatnati</i>	B Sc sem- V/VI -B3 PRA-2 <i>Yatnati</i>		B Sc sem- I/II - B1&B2 <i>Heena s & Qudsiya</i>
		B Sc sem- III/IV -B3 - <i>Heena s</i>	B Sc sem- I/II - B3 <i>Heena s</i>	B Sc sem- III/IV B1 & B2 <i>Qudsiya & Heena s</i>		
THEORY HOURS: 16			PRCTICAL HOURS : 48		TOTAL HOURS: 64	


Head of department
*Head of The Department of Physics
Nehru Arts, Science & Commerce, Coll-
HUBBALLI - 20*


Principal
PRINCIPAL
**Nehru Arts, Science & Commerce
Degree College, HUBBALLI-20.**

3. Calendar of event

Anjuman-e-Islam's
NEHRU ARTS, COMM, & SCIENCE DEGREE COLLEGE & P.G. CENTRE GHANTIKERI, HUBLI-580 020

CALENDAR OF EVENTS
DEPARTMENT OF PHYSICS

ACADEMIC YEAR 2020-21 ODD SEM DURATION 31-08-2020 TO 01-03-2021

Week	Month	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Holidays	Activities
1	AUGUST 2020		31							31.Reopening of College
1	SEPTEMBER 2020			1	2	3	4	5	Last Somwar	05. Teachers day 7,8 & 9 II test only for final year students 15 to 30 contact classes only for final year students
2		6	7	8	9	10	11	12	13.Ganesh Chaturti	
3		13	14	15	16	17	18	19	21.Holiday	
4		20	21	22	23	24	25	26		
5		27	28	29	30					
1	OCTOBER 2020					1	2	3	2.Gandhi Jayanti 05Valmiki 30.Eid-Milad 31.Valmiki Jayanti	1 to 8 exam (Final exams for final year students only)
2		4	5	6	7	8	9	10		
3		11	12	13	14	15	16	17		
		18	19	20	21	22	23	24		
		25	26	27	28	29	30	31		
	NOVEMBER 2020	1	2	3	4	5	6	7	As per government order 5 Nov to 11 Nov Work from Home 14 Narak Chaturdasi 16 Depuwall	17 Covid -19 Test for Staff and final year Students
		8	9	10	11	12	13	14		
		15	16	17	18	19	20	21		
		22	23	24	25	26	27	28		
		29	30							
	DECEMBER 2020			1	2	3	4	5	03.Kanakadas Jayanti 25.Christmas	1 st Dec off line classes 1 st unit test December last week 14 contact classes for I & III
		6	7	8	9	10	11	12		
		13	14	15	16	17	18	19		
		20	21	22	23	24	25	26		
		27	28	29	30	31				

Continued

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Head of the Department of Physics
Nehru Arts, Science & Commerce College
Hubli-20

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Nehru Arts, Science & Commerce
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1

Anjuman-e-Islam's
 NEHRU ARTS, COMM, & SCIENCE DEGREE COLLEGE & P.G. CENTRE GHANTIKERI, HUBLI-580 020
CALENDAR OF EVENTS
DEPARTMENT OF PHYSICS

ACADEMIC YEAR 2020-21 ODD SEM DURATION 31-08-2020 TO 01-03-2021

Week	Month	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Holidays	Activities
1	JANUARY 2021						1	2	14.Sankaramana 26 Republic Day	2 nd unit test January last week
2		3	4	5	6	7	8	9		
3		10	11	12	13	14	15	16		
4		17	18	19	20	21	22	23		
5		24	25	26	27	28	29	30		
6		31								
1	FEBRUARY 2021		1	2	3	4	5	6		
2		7	8	9	10	11	12	13		
3		14	15	16	17	18	19	20		
4		21	22	23	24	25	26	27		
5		28								
1	MARCH 2021		1	2	3	4	5	6	From March 02 to April 27, 2021, Worked in College including NAAC work	31 st , last working day As per KUD
2		7	8	9	10	11	12	13		
3		14	15	16	17	18	19	20		
4		21	22	23	24	25	26	27		
5		28	29	30	31					
1	APRIL 2021					1	2	3	1. Holi Govt. Announced Janta Curfew From 28 April to 12 th May	
2		4	5	6	7	8	9	10		
3		11	12	13	14	15	16	17		
4		18	19	20	21	22	23	24		
5		25	26	27	28	29	30			
1	MAY 2021							1	3 Reopen KUD Postponed Holidays till 16 th May	Government announced Lockdown from 10 th May to 29 th May 17, Reopen & Online Dept. meeting
2		2	3	4	5	6	7	8		
3		9	10	11	12	13	14	15		
4		16	17	18	19	20	21	22		
5		23	24	25	26	27	28	29		
6		30	31							

(Signature)
 Head of The Department of Physics,
 Nehru Arts, Science & Commerce, College
 HUBLI-20

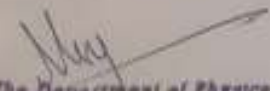
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CALENDAR OF EVENTS
DEPARTMENT OF PHYSICS

ACADEMIC YEAR 2020-21 EVEN SEM DURATION 17-05-2021 TO 14-08-2021

Week	Month	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Holidays	Activities
1	JUNE 2021			1	2	3	4	5		10 th PTA meeting
2		6	7	8	9	10	11	12		15 th national webinar on wind day
3		13	14	15	16	17	18	19		28,29,30 Vaccination Day
4		20	21	22	23	24	25	26		
5		27	28	29	30					
1	JULY 2021					1	2	3	21 Bakrid	14 th International webinar
2		4	5	6	7	8	9	10		15 th dept. meeting
3		11	12	13	14	15	16	17		24 & 26 Unit test (online)
4		18	19	20	21	22	23	24		27 to 30 Unit test 2 (offline)
5		25	26	27	28	29	30	31		
1	AUGUST 2021	1	2	3	4	5	6	7	15 Independence Day	31 st July to 7 th August practical unit test conducted 7 th Last Working Day 1 st Week of August II Unit Test
2		8	9	10	11	12	13	14	16 th August	
3		15	16	17	18	19	20	21	2021 final.	
4		22	23	24	25	26	27	28	exams for Odd Sem students	
		29	30	31						

Note: Initially we prepared the routine calendar of events in the beginning of the academic year. Then it was modified according to the covid code of conduct released by the Government and the circulars, notices sent by the Karnatak University, Dharwad.


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4. Unitization

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GHANTIKERI, HUBLI-586 020

UNITIZATION 2020-2021 (EVEN SEM) (online mode)

B.Sc. SEMESTER	FACULTY	UNIT NAME		TENTATIVE DATE OF COMPLETION	
III	Dr. M. S. YATNATTI	Unit 2 : kinetic theory of gases		July 1 st to 30 th July	
		Unit 5: Astrophysics		17 th May to 30 th June	
	Smt. QUDSIYA ATWANI	Unit 4: Radiation		17 th May to 30 th June	
		Unit 6: Fluid mechanics		1 st July to 30 th July	
	Miss. HEENA SAVANUR	Unit 1: Thermodynamics		17 th May to 30 th June	
		Unit 3: statistical physics		July 1 st to 30 th July	
IV	Dr. M. S. YATNATTI	Unit 1: Interference		17 th May to 15 th June	
		Unit 3: Polarization		16 th June to 30 th July	
	Smt. QUDSIYA ATWANI	Unit 2: Diffraction		16 th June to 30 th July	
		Unit 4: Thermoelectricity		17 th May to 15 th June	
	Miss. HEENA SAVANUR	Unit 5: Electromagnetic theory		17 th May to July 30 th	
VI	Dr. M. S. YATNATTI	PAPER- 1	Unit 2: Magnetic material & Nano Science	16 th June to 15 th July	
			Unit 3: Nuclear physics	18 th July to 30 th July	
		PAPER- 2	Unit 1: Astrophysics		17 th May to 15 th June
	Smt. QUDSIYA ATWANI	PAPER- 1	Unit 1: Solid state physics		17 th May to 30 th June
		PAPER- 2	Unit 2: computational physics		July 1 st to 30 th July
	Miss. HEENA SAVANUR	PAPER- 2	Unit 3: Electronics -II		17 th May to July 30 th

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 GHANTIKERI, HUBLI-580 020

UNITIZATION 2020 -2021 (000 SEM)

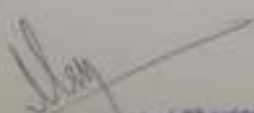
B.Sc. SEMESTER	FACULTY	UNIT NAME	TENTATIVE DATE OF COMPLETION	
I	Dr. M. S. YATNATTI	Unit 1: Frame of reference & Linear momentum Angular momentum	16 th Oct. to 15 th Nov.	
		Unit 3: Special theory of Relativity	15 th Sep. to 15 th Oct.	
	Smt. QUOSIYA ATWANI	Unit 2: Classical Mechanics	15 th Sep. to 30 th Oct.	
		Unit 4: Gravitation	1 st Nov. to 30 th Nov.	
	Miss. HEENA SAVANUR	Unit 2: Electricity	15 th Sep. to 15 th Oct.	
		Unit 5: Cathode ray oscilloscope	16 th Oct. to 30 th Nov.	
	II	Dr. M. S. YATNATTI	Unit 4: Alternating current	15 th Sep. to 30 th Oct.
			Unit 5: Electrical instruments & measurements	1 st Nov. to 30 th Nov.
Smt. QUOSIYA ATWANI		Unit 1: Fermat's principle, cardinal points & aberration	1 st Nov. to 30 th Nov.	
		Unit 3: current electricity, transient currents	15 th Sep. to 30 th Oct.	
Miss. HEENA SAVANUR		Unit 2: Electrostatics	15 th sep to 30 th Nov.	


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V	Dr. M. S. YATNATTI	PAPER-1	Unit 3: Atomic spectra & magnetic field effect on light	1 st Nov. to 30 th Nov.
		PAPER-2	Unit 2: Relativity	15 th Sep. to 30 th Oct.
	Smt. QUSIYA ATWANI	PAPER-1	Unit 1: Classical mechanics	15 th Sep. to 30 th Oct.
		PAPER-2	Unit 1: Molecular spectra	1 st Nov. to 15 th Dec.
	Miss. HEENA SAVANUR	PAPER-1	Unit 2: Quantum mechanics, wave uncertainty principle, mechanical model of the atom & statistical physics	15 th Sep. to 30 th Oct.
		PAPER-2	Unit 3: Electronics -I	1 st Nov. to 15 th Dec.


TENTATIVE *online classes

Date may be changed due to Covid -19 Pandemic.




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5. Seminar

 Anjuman-e-Islam's
NEHRU ARTS, SCIENCE, COMMERCE DEGREE
COLLEGEHANTIKERI, HUBLI-580 020

Topic: Classical mechanics(constraints)
Date: 09/01/2021

Name: Tuba TazeenPattankudi
Standard: B.Sc-I sem
Registration number:20S12277
Guides: Smt. Qudsiya Naseem Atawani & 
Miss. Heena Savanur 


Head of the Department of Physics
- Arts, Science & Commerce Degree College,
HUBLI-580 020


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Degree College, HUBBALLI-580 020.

CLASSICAL MECHANICS

CONSTRAINTS

The motion of a particle or system of particles is restricted or limited. The limitation or geometrical restriction on the motion of particle or system of particles is called constraints.

The constraints may be classified into two types:

1) Holonomic constraints and non-holonomic constraints.

2) Scleronomous and rheonomic constraints.

HOLONOMIC CONSTRAINTS

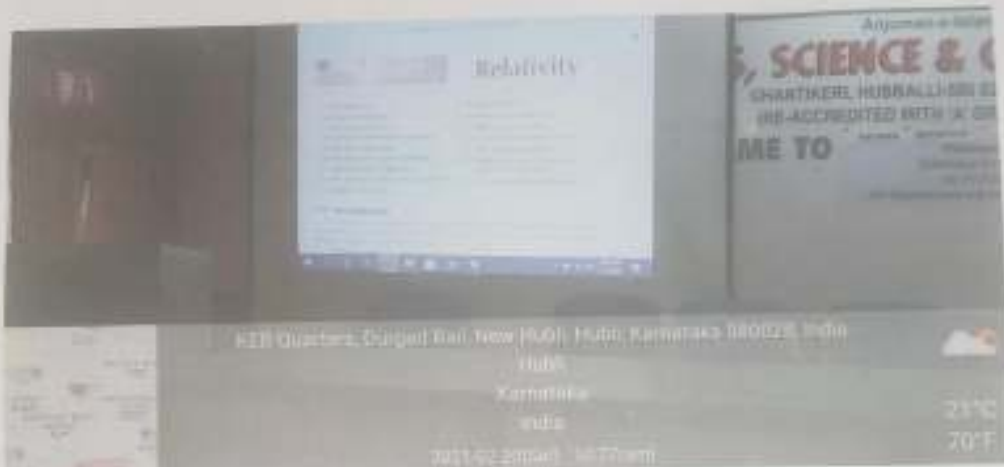
Let $r_1, r_2, r_3, \dots, r_n$ be the position coordinates of a system of a system and 't' denotes the time then if coordinates of all constraints are expressed as $f(r_1, r_2, r_3, \dots, r_n, t) = 0$ then the constraints are said to be holonomic.

If the condition $f(r_1, r_2, r_3, \dots, r_n, t) \neq 0$ then the constraints are said to be non-holonomic.



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6. ICT Class:



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Head of The Department of Physics
Nehru Arts, Science & Commerce College
HUBBALLI-20

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Degree College, HUBBALLI-20.

7. Test marks:

Anjuman-e-Islami's
NEHRU ARTS, SCIENCE & COMMERCE DEGREE COLLEGE
GHANTIKERU, HUBLI.

Sem: <u>TUth</u>	FROM	TO	TOTAL	Block No. <u>09</u>
Arts / Com / Sci				Date: <u>02/01/2021</u>

Time: 10:20:11

Subject: Physics **ATTENDANCE REPORT**

Seat No.	Signature of the Candidate	Seat No.	Signature of the Candidate	Seat No.	Signature of the Candidate
202	<u>Abek</u>	211	<u>Khadar</u>	211	<u>Payela</u>
240	<u>Banjari</u>	212	<u>Ashkan</u>	245	<u>S.S.S</u>
204	<u>Ahmedkatti</u>	246	<u>Sit</u>		
206	<u>Aana</u>	214	<u>Deval</u>		
229	<u>Naziya</u>	205	<u>Amey</u>		
270	<u>Rahmida</u>	207	<u>Umar H.</u>		
231	<u>Amey</u>	220	<u>Amey</u>		
268	<u>Seelcha</u>	280	<u>Amey</u>		
272	<u>Futkar</u>	238	<u>Rahmida</u>		
223	<u>Amey</u>	260	<u>Amey</u>		
250	<u>Amey</u>	236	<u>Amey</u>		
218	<u>Amey</u>	271	<u>Tahseen</u>		
273	<u>Amey</u>	264	<u>S/S</u>		
278	<u>Amey</u>	234	<u>Amey</u>		
207	<u>Amey</u>	207	<u>Arabi</u>		
235	<u>Amey</u>	216	<u>Amey</u>		
274	<u>Amey</u>	251	<u>Amey</u>		
259	<u>Amey</u>	225	<u>Amey</u>		

Signature of the Supervisor



Arjunan - e- Islamic
NEHRU ARTS, SCIENCE AND COMMERCE P.U. COLLEGE
GHANTKERI, HUBLI

2nd Intermedial Phase Examination Held on 01/01/2022
Class VIth Semester Subject PHYSICS - paper - II

STATEMENT OF MARKS

Roll No.	Total Marks Out of 20	Roll No.	Total Marks Out of	Roll No.	Total Marks Out of 20	Roll No.	Total Marks Out of	Roll No.	Total Marks Out of
203	20			245	18				
204	20			246	20				
206	20			247	20				
207	20			248	20				
208	20			257	20				
209	20			255	20				
211	20			256	20				
212	20			252	20				
213	20			259	20				
214	20			260	20				
215	20			262	20				
216	20			265	20				
220	20			266	20				
222	20			267	20				
223	20								
224	20								
225	20								
226	20								
227	20								
228	20								
231	20								
235	20								
237	20								
239	20								
240	20								
241	20								
242	20								

Name of the Head of Department
Dr. M. S. Ghatge
Signature [Signature]

Name of the Examiner
Qudus Ahsan & Akhbar
Signature [Signature]

8. Remedial class

Remedial Class
REMEDIAL CLASSES FOR SLOW LEARNERS

LIST OF STUDENTS
FROM THE YEAR 2019 TO YEAR 2020 BATCH

REGISTER NO	NAME OF STUDENTS
18012201	ARUN K SUDHAKAR
18012202	SAHITHA REDDY
18012203	VIJAYAN KUTANAR
18012204	RAJESHKANNAN SAGAYAN
18012205	SRINIVASAN ANANDH
18012206	POORNIMA SANKU SUDHAKAR
18012207	SARU ANANDH

FROM THE YEAR 2020 TO YEAR 2022 BATCH

REGISTER NO	NAME OF STUDENTS
18012208	DEEPIKA
18012209	SHARADH SANKU
18012210	SARANYA SANKU
18012211	SHRINIVASAN
18012212	SHRINIVASAN SANKU
18012213	VIJAY

Head of the Department of Physics
Dr. J. S. Sanku, Science & Commerce College
 HUSSALI-25

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ATTENDANCE REGISTER
 2020-2021

Class Remedial class

Roll No.	Name of the Student	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN
1801	Arun Sanku	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
217	Deepeeka	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
217	Shardha Sanku	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
251	Saranya Sanku	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
261	Shrinivasan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
264	Shrinivasan Sanku	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
284	Vijay	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

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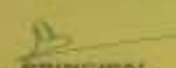
9. Assignments

NARAYAN UNIVERSITY
NEERU ARTS, SCIENCE AND COMMERCE
RELATED COURSE WORK
Physics Assignment

Name:- Anupama S Jaramelli
Roll no:- 07
Class:- B.A. 2nd Sem
Reg. No:- 12212209
Subject:- Physics Paper-II

Staff Members:-
1) Ganga Lakshmi
2) Heena Jaramelli


Head of the Department of Physics,
Neeru Arts, Science & Commerce College,
MUSLI - 50


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Degree College, MUSLI-50.

SOLVED QUESTION PAPER - 2015
PHYSICS - II
PART - I

1. Answer the following questions

1. Ruby laser was invented by
a) Barium b) I. N. Savelov
c) Al. Mason d) None of these
→ b) I. N. Savelov

2. Which of the following colours is least scattered in Rayleigh scattering?
a) red b) yellow
c) green d) violet
→ a) red

3. A cube moving with a relativistic speed with respect to an observer appears like
a) cube b) rectangular
c) sphere d) disc
→ b) rectangular

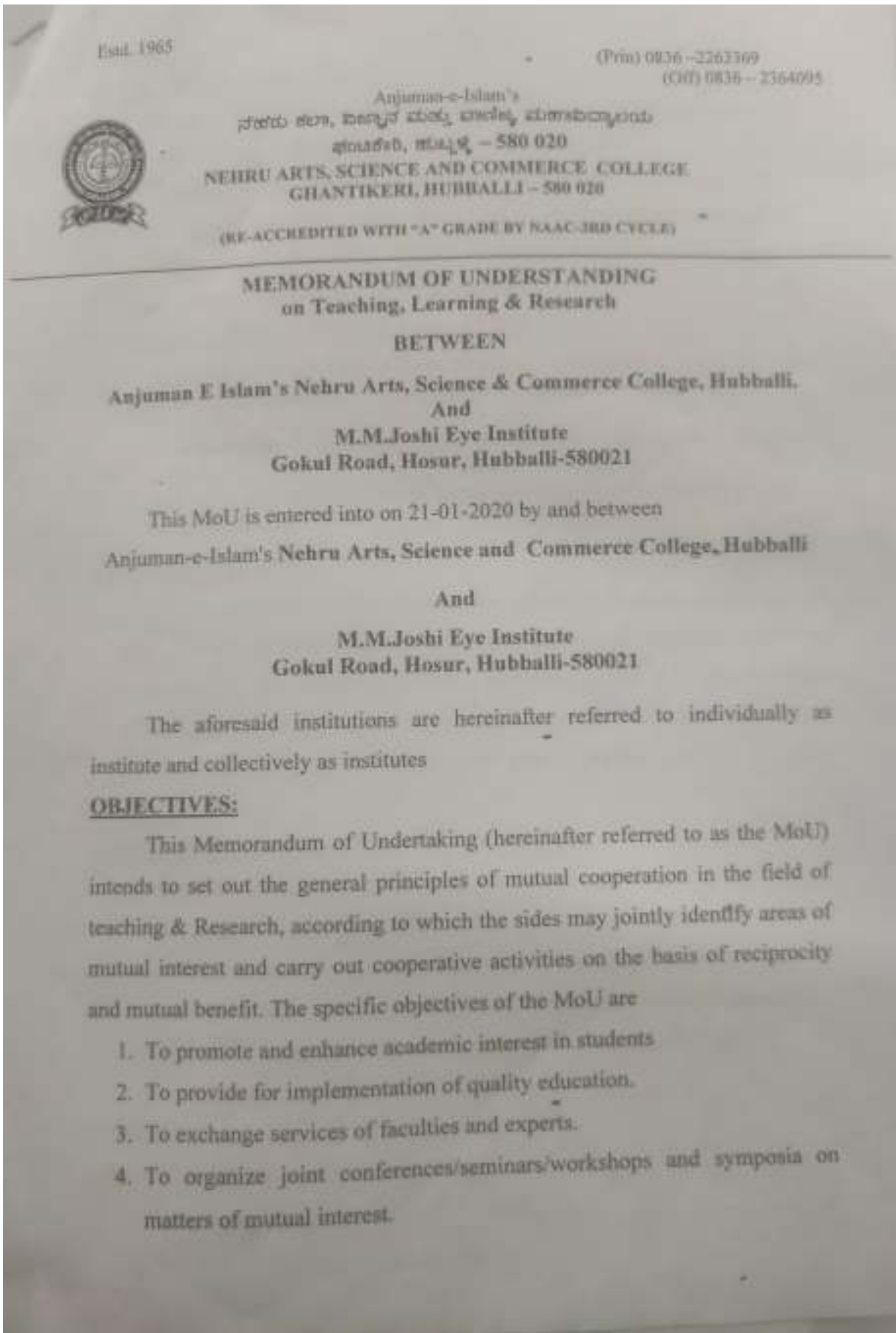
4. The _____ filter circuit results in the best voltage regulation.
a) choke input b) capacitor input
c) resistance input d) none of these
→ a) choke input

5. State the postulates of special theory of relativity.
→ a. Measurement of absolute motion is impossible to an observer stationed on a moving system

Departmental
LIBRARY

PHYSICS

- 201 Mechanics
D.S. Mathur.
- 202 Physics for B.Sc Ist Sem. (K.U.D.)
Dr. A. Sridhar & Dr. D. Sudhakar
203. Classical Mechanics
J. C. Upadhyaya.
- 204 Electricity & Magnetism.
K.K. Tewari
- 205 Refresher Course in Physics.
S. Chand
- 206 Co-ordinate Geometry.
M.L. Khanna.



AREA OF COLLABORATION:

1. On need basis, both the colleges may exchange their faculties to improve the teaching and learning process on mutual interest.
2. Provide academic interaction by delivering special lecture on topics of relevance. Provide necessary help in organizing workshops/Conferences/Seminars and personality Development programmes for enhancements of skills in respect of students of both the Institutes.

PROPOSED MODE OF COLLABORATION:

Anjuman-e-Islam's Nehru Arts, Science, Commerce College, & P.G. Centre Hubballi proposed to collaborate through the following:

1. Cooperation and promotion of education and training in areas of mutual interest.
2. Any other appropriate mode of interaction agreed upon between the two institutions.

CONFIDENTIALITY:

The Anjuman-e-Islam's Nehru Arts, Science, Commerce College, & P.G. Centre Hubballi, agreed to hold in confidence all information/data designated by the Institutes as being confidential which is obtained from either institutes or created during the performance of the MoU and will not disclose the same to any third party without written consent of other institutes.

ENTRY INTO EFFECT AND TERMINATION:

1. This MoU will come into effect on the date of signature.
2. This MoU will remain in effect for an initial period of three (3) years and will be extended for successive periods of one (1) year, unless either side notifies the other side, in writing, of its intention to terminate this MoU at least three (3) months before the expiry date of the relevant period.


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12. Question paper sample

