# 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

ST Department of Physics Our anyola 2004-05 Tickastmental meeting Regenters -

15/07/2021

-Thursday

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92-PRINCIPAL Nehru Arts, Science & Commerce Degree College, HUBBALLI-20

2. Time table

### Anjuman-e-Islam's NEHRU ARTS, SCIENCE, COMMERCE DEGREE COLLEGE & P.G. CENTRE GHANTIKERI, HUBLI-580 920 DEPARTMENT OF PHYSICS - TIME TABLE FOR THE ACC YEAR 2020 - 2021

Time	Monday	Tuesday	Wednesday		hursday	Friday	Saturday
09.00 10.00	B Sc sem- V/VI Qudsiya						B Sc sem- I/II
10.00 11.00	B Sc sem- 1/II M S Yatnoti	B Sc sem- 1/11 Heena s	B Sc sem- V/VI Heena s		B Sc sem- /II Heena s		Qudsiya
	B Sc sem- III/IV Heena s						B Sc sem-
11.15 12.15		B Sc sem- III/IV M S Yatnati	B Sc sem- I/ M S Yatnati	/11		B Sc sem- V/VI M S Yatnati	M 5 Yatnati
		W 3 Totala	B Sc sem- III/IV Qudsiya	10024	B Sc sem- III/IV Qudsiya		
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02.15	_		PRACT	TICA	L		B Sc sem- 1/1
02.30 06.30	B Sc sem- V/VI -B1&B2 PRA-1 Yatnati & Qudsiya	B Sc sem- V/VI -B3 PRA-1 Yatnati	B Sc sem- V/VI V B1&B2 PRA-2 F		t <b>A-2</b> tnati		- B1&B2 Heena s & Qudsiya
	Quanya	B Sc sem- III/IV -B3 - Heena s	B Sc sem- I - B3 Heena s		B Sc sem III/IV B1 & B2 Qudsiya & Heena s	6	
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Head of department

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

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			27	28	29	30	31				for 1 # 111
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NEHRU ARTS, COMM, & SCIENCE DEGREE COLLEGE & P.G. CENTRE GHANTIKERI, HUBLI-580 020 CALENDAR OF EVENTS

DEPARTMENT OF PHYSICS

Week	Month	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Holidays	Activities	
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-	JANUARY 2021	10	11	12	13	14	15	16	26 Republic		
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3	FEBRUARY	14	15	16	17	18	19	20			
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2	COCCURATE S		(IN)	9	10		ΞØ.	(a)	to April 27, 2021, Worked	day As per KUE	
3	MARCH	14	74	16	110	3.8	14		in College		
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2		4		1		8	8	10	Govt, Announced		
3	APRIL 2021	- 11	12		e a l		10		Janta Curfew		
4	Cardier .	3.8	14	0.3		22			From 28 April to 12 <sup>m</sup> May		
5		25	26	27	28	29	30				
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2		2	3	-4	5	6	7	.8	3 Reopen	announced Lockdown from	
3		9	10	R.	12	耕	34	15	KUD Postponed	10th May to 200	
4	MAY 2021	36	1165				21	22	Holidays till	May	
3		23	24	25	26	27	28	29	16 <sup>th</sup> May	17.Reopen & Online Dept.	
6		30	31							meeting	
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NEHRU ARTS, COMM, & SCIENCE DEGREE COLLEGE & P.G. CENTRE GHANTIKERI, HUBLI-580 020

CALENDAR OF EVENTS

DEPARTMENT OF PHYSICS

#### ACADEMIC YEAR 2020-21

EVEN SEM DURATION

17-05-2021 TO 14-08-2021

Week	Month	Sun	Men	Tue	Wed	Thu	Fri	Sut	Halidays	Activities	
R.				1	2	3	4	5		10 <sup>®</sup> PTA meeting	
2	JUNE	6	4	8	9	10	31	12		15 <sup>th</sup> national webinar on wind day 28,29 30 Vaccination Day	
3	2021	13	14	15	1.6	37.5	111	19			
4		20	2.1	22	23	24	25	26			
5.		27	28	29	30						
-14 -		1				21	2	3	21 Bakrid	14 <sup>th</sup> International webinar	
2	JULY 2021	394.0	5.	Ó	7.:	.8	9	10		15" dept. meeting	
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4		18	19	20	21	22	23	-24			
<u>\$</u> ?		25	26	27	28	29	30	31.			
1.		T.	2	3	4	3	6	7.	15 Independence	31" July to 7" augus	
2	AUGUST	8	.9	10	11	12	1Ĵ	14	Day 16 <sup>41</sup> August 2021 final	practical unit test conducted	
3	2021	1.5	16	17	18	19	20	21		7th Last Working Da	
4	ave.t	22	23	.24	25	26	27	28	exama for Odd	1" Week of August I	
		29	30	31					Sem students	Unit Test	

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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-ore Arts, Seince & Commerce, College, HUBLI - 20

PRINCIPAL Nehru Arts, Science & Commerce Degree College, HUBBALLI-20. 4.Unitization

SEMISTER	FACULTY		UNIT NAME	TENTATIVE DAT	
		Minit2 : N	notic theory of goost	July 3* 50 30* J	
	Dr. M. S. TATNATTI	Unit B: Ad	draphysics	-17 <sup>10</sup> May to 30 <sup>40</sup>	
	SIME QUDSTYA ATWANE	Unit 4: #2	ollation	1.7 <sup>m</sup> May 10 30 <sup>n</sup>	
-5		United	ald intechanics	1° July to 30°	
	MISS. HEENA SAVANUR	Unit 1: Th	#rmodynamics	37 <sup>th</sup> May to 30 <sup>th</sup>	
		Unit 3: cc	etistical physics.	inty 1° to: 30°.	
	Dr. M. S. YATNATTI	Unit 1: In	erference	-17" May 10 15"	
		Unit 3: Po	lamzation	15" June to 30"	
tV.	Seet. QUDSIYA ATWANI	Liwit 25 Dif	fraction	36 <sup>th</sup> June to 30 <sup>th</sup>	
		Unit 4: Th	ermoniectricity	17 <sup>th</sup> May to 15 <sup>th</sup>	
	MILL HEENA SAVANUR	Unit Sc Els	ictiomagnetic theory	1. <sup>34</sup> May to July )	
	Dr. M. S. VATNATTI	PAPER-1	Unit 2: Magnetic material & Nano Science	16" June to 15"	
			Unit 3: Nuclear physics	IN" July to 30"	
		PAPER-2	Unit 1: Astrophysics	17" May to 15" Ju	
	SHL QUOSYA ATWANI	PAPER-1	Unit 1: Solid state physics	17" May to 30"	
		PAPER-2	Unit 2: computational physics	July 1" to 30"	
30	Mim. HEENA SAVANUR	PAPER-2	Unit 3: Dectronics -II	37 <sup>th</sup> May to July	

PRINCIPAL Nehru Arts, Science & Commarce Degree College, HUBBALLI-20.

### NERRU ARTS, SCIENCE, COMMERCE DEGREE COLLEGE & P.G. CENTRE GHANTIKERI, HUBLI-580 020

UNITERTION 2020 -2023 (DOD SEMI)

BLSC. SEMISTER	FUNCULTY	UNIT NAME	COMPLETION	
	Dr. M. 5.	Mwit 3: Frame of reference & Unear momentum Angular momentum	56" Oct. to: 19" Nos	
	VATHATTI	Unit 3: Special theory of Resetivity	15" Sep. to 15" Oct.	
	SHR. QUOSWA ATWANI	Unit 2: Classical Mechanics	15" Sep. to 10" Oct.	
		Unit A: Erzoffation	1" Nov. to 30" Nov.	
	MISS. MEENA SAVANDIT	Unit 2: Flasticity	15" Sep. to 15" Oct.	
		Unit 5: Carbodie vay applications	16 <sup>th</sup> Oct. 10 30 <sup>th</sup> 80th	
	Dr. M. S. YATRATTI	Unit 4: Abernating current	15 <sup>th</sup> Sep. to 30 <sup>th</sup> Oct.	
*		Unit 5: Electrical Instruments & measurements	1" New, to 30 <sup>10</sup> New.	
	Set. QUDSIVA	Unit 3: Fermat's principle, cardinal points & aberration	1" Nov. to 30 <sup>%/</sup> Nov.	
	ATWANE	Unit 3: current electricity, transient currents	15th Sep. to 30 <sup>th</sup> Out	
	MUL HEETILA. SHVANUR	Unit 2: Decimination	15 <sup>th</sup> sep to 50 <sup>th</sup> Nor	

# NEHRU ARTS, SCIENCE, COMMERCE DEGREE COLLEGE & P.G. CENTRE GHANTIKERI, HUBLI-580 828

	Dr. M. B. YATNATTI	PAPER-1	Unit & Atomic spectra & magnetic field whect on light	1 <sup>4</sup> flow, to 32 <sup>50</sup> Non.
		PAPER-2	Unit 2: Helatisty	\$5 <sup>th</sup> Sep. to 30 <sup>th</sup> Dol.
۷	Smt. QUESIVA ATWANI	PAPER-1	Unit 3: Classical mechanica	15 <sup>th</sup> Sep. 10.30 <sup>th</sup> Cert.
		PAPER-2	Unit 5: Molecular spectra	1" Nov. 10 15" Ove.
	MISS, HEENA SAVANUR	PAPER-1	Unit 2: Quantum mechanics, wave . uncertainty principle. mechanical model of the atom & statistical physics	15** Sep. to 30* Oct.
		PAPER-2	Unit 3: Electronics 4	$T_{\rm H}$ (pilled to $T_{\rm H}$ (pilled

TENTATIVE "softine classes

Date may be changed due to Covid -19 Pundamie

Hued of The Superimant of Physics rears Arts, Seince & Commerce, Coller-HUBLI - 26

PRINCIPAL Nehru Arts, Science & Commerce Degree College, HUBBALLI-20. 5. Seminar

Anjuman-e-Islam's NEHRU ARTS, SCIENCE, COMMERCE DEGREE COLLEGEGHANTIKERI, 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&

### CLASICAL MECHANICS

#### CONSTRAINTS

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

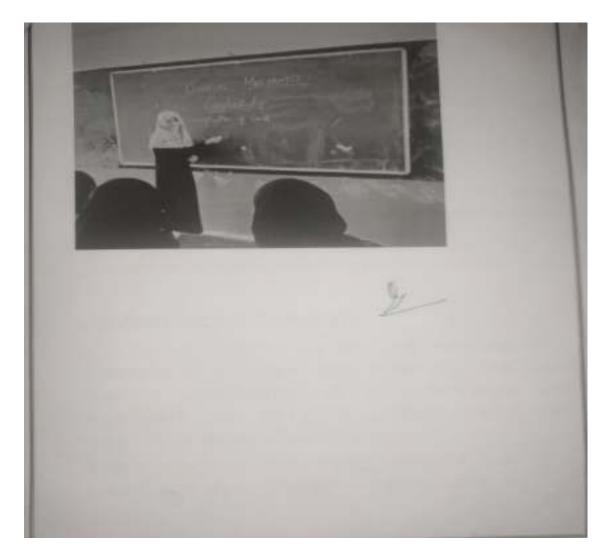
The constraints may be classified into two types: 1)Holonomic constraints and non-holonomic constraints.

2)Scleronomics and rheonomic constraints.

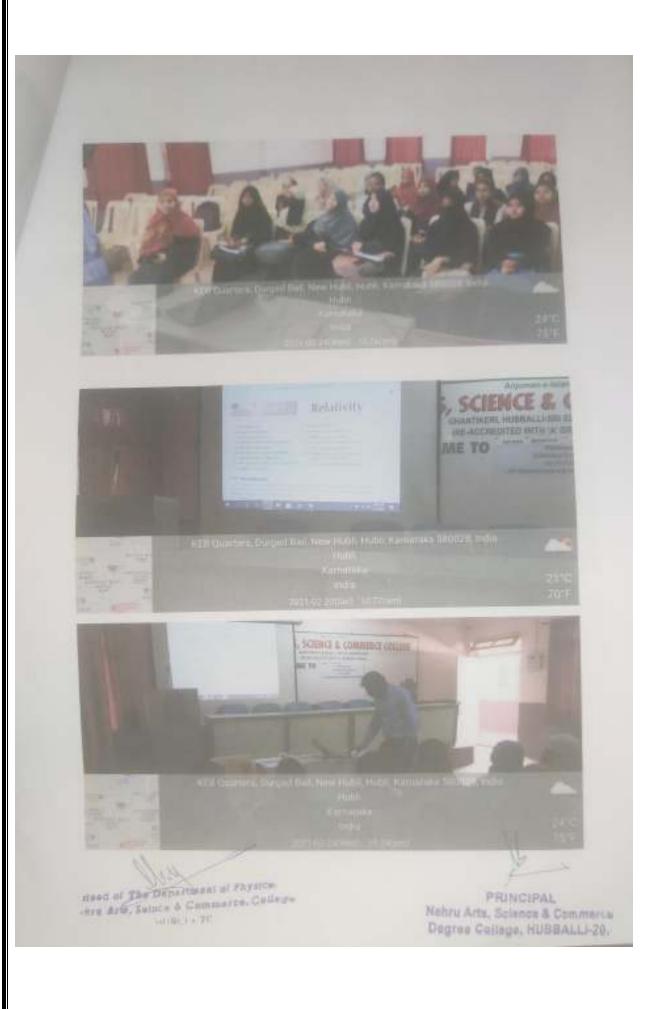
#### HOLONOMIC CONSTRAINTS

Let r1,r2,r3,....rn 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(r1,r2,r3,...rnt)=0 then the constraints are said to be holonomic

If the condition  $f(r1, r2, r3, ..., rn, t) \neq 0$  then the constraints are said to be non-holonomic.







#### 7.Test marks:

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#### 9.Assignments

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#### 11.MOU s

Estil 1965

(Prin) 0836-2262369 (C00) 0836-2364095

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(RE-ACCREDITED WITH "A" GRADE BY NAAC-3RD CYCLE)

MEMORANDUM OF UNDERSTANDING on Teaching, Learning & Research

BETWEEN

Anjuman E Islam's Nehru Arts, Science & Commerce College, Hubballi. And M.M.Joshi Eye Institute Gokul Road, Hosur, Hubballi-580021

This MoU is entered into on 21-01-2020 by and between Anjuman-e-Islam's Nehru Arts, Science and Commerce College, Hubballi

And

### M.M.Joshi Eye Institute Gokul Road, Hosur, Hubballi-580021

The aforesaid institutions are hereinafter referred to individually as institute and collectively as institutes

#### OBJECTIVES:

This Memorandum of Undertaking (hereinafter referred to as the MoU) intends to set out the general principles of mutual cooperation in the field of teaching & Research, according to which the sides may jointly identify areas of mutual interest and carry out cooperative activities on the basis of reciprocity and mutual benefit. The specific objectives of the MoU are

- 1. To promote and enhance academic interest in students
- 2. To provide for implementation of quality education.
- 3. To exchange services of faculties and experts.
- To organize joint conferences/seminars/workshops and symposia on matters of mutual interest.

# AREA OF COLLABORATION:

- On need basis, both the colleges may exchange their faculties to improve the teaching and learning process on mutual interest.
- Provide scademic interaction by delivering special lecture on topics of relevance. Provide necessary help in organizing workshops/Confirmnees /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:

- Cooperation and promotion of education and training in areas of mutual interest.
- 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.

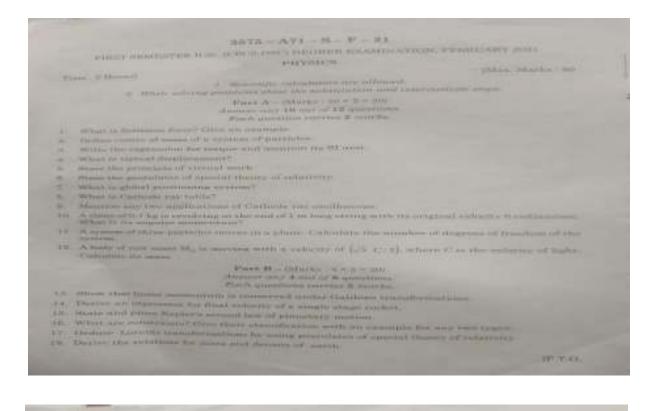
### ENTRY INTO EFFECT AND TERMINATION:

- 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.

PADMA NAYANALAYA" GOKUL ROAD, HOSUR 

PRINCIPAL Nehru Arts, Science & Commerce Degree College, HUBBALLI-28.

#### 12. Question paper sample



# Pare 4 - colors - the second American start is and a market Flash attended and a market

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- Construction of strategies are ded P ( N , A) ( ) without the element construction of provide being of a second many of the second in Res. 37 blue and the second s
- in the second division of many second to an an an and the second se
- the up to a sublimit equilation of married for Manual Internation on Observe
- Securit Long-Higgs in approximit of motions. Its that of inputs principality
- in . The approximation of word V and investing in dispositive directions would will be a speed of the state one "
- A trypteral adult Brothing base is there all about 70.00 his and Which Barris during a built mean second on a Brothing, where it is discussible to consider a the resonance and the barries and the Company on the barries and with their constraint on the brothing by the constant.

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th sector of hermitik 2 on in Rand of non-need must be finite of 10.26 to explotted on the order cost. The and interaction of the wire in 2 or 10 ° at and the Young's productive of almosticity of the sector and 2 or 10° for the data distant the others will statist.

Pare D - Durks - 2 - D - 20 Against and 2 not of 4 quantum. Each question corries 10 marks

- 27 9) TheOries Income and an annumber of the later of contarge allow of the my provide the participant.
- an standard and an article and and particular which sight regardles to false atom frames of a
- Design Lagrange's Equation for a conservation spation rating TrAlenders's principle
- me Replan with relevant, theory Machineses Marine experiment.
- An Alternative and regulations for the dependences of the bounded over of the Annual Disputer, the annual of the constitution of the