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

Onstine adaisés worse taken from 19th June 2023. Unaverseity has developmend odd seven has to be taken in that form and odd seven use have studen in that form, there for use have students in the students. In how the students in the students. In the do study with a point of view of objective type quarterns.

MBY HOD. go A

11-5

and 00-

Beense

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		
12.15 01.15		B Sc sem- V/VI M S Yatnati	Quanya		B Sc sem- V/VI M 5 Yatnat		B Sc sem- V/VI M S Yatnati
01.15							
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 A-2 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	
	THEORY HO	URS: 16	PRCTICAL	HOU	RS : 48	TOTAL	IOURS: 64
	THEORY HU	JON3. 10	1. Contraction	1.1.1.1.1.1			10

Head of department

Reed of The Department of Physics are Srie, Selpes & Commerce, Con-40.81 (- 20

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

				DEP	ARTM	INT OF	PHY	SICS.			
AC	ADEMI	CYEAR 20	20-21	OD	DSEN	I DUR	TION			31-08-2020 T	0 0 1-03-202
	Week	Month	Sun	Mon	Tue	Wed	Thu	Eti	Sat	Holidays	Activities
	Ť	AUGUST	-	33	1			1			31.Reopening of College
	1	2020	-	-	i	2	3	4	5	Last Somewar	05.Teuchers da
	2		6	7	1	-	in	11	12	Charutti	7,8 & 9 II test only for final year students 15 to 30 contac classes only for final year students
	3	SEPTEMBER	13	84	15	16	17	111	10	31.Efoliday	
	.4	2020	11562	01	22	23	24	25	26		
	- 3		20		29	30	-				
	-r		27	28	HR .	29	1	12	3		I to 8 exam
	1				-	-	1		10	2.Gandhi Jayanti 05Valmiki	(Final examp
	_	OCTOBER	-41	- 5:	.0	7	-	16	17	30.Eid-Milad 31.Valmiki	for final year students only
		2020	11	12	13-	44	15	21	24	Jayanti	
			18	19	20	21	22				
			25	26	27	28	-29	30	31		
			1	2	3	4	1	10	-	As per government order 5 Nov 10 11 Nov Work from Home 14 Narak Chaturdasi	17 Covid -19 Test for Staff and final year Students
		NOVEMBER			100		12	13	14		
		2020	15	16.	17.	18	19	20	21		
			22	23	24	25	26	27	28		
			29	30					_	16 Depuwali	
					1	2	13	4	5	03.Kanakadas Jayanti	classes
		DECEMBER	6	7//	X	.9	10	11	12	25 Christmas	1" unit test
		2020	13	14	12	16	17	18	19	- Contraction	December last week.
			20	21	22	23	24	25	26		14 contact classe
			27	28	29	30	31				for 1 # 111
	Hoad 	al Sin Doper	Comm	of Physics	nen Se lin an				Nel De	PRINCI Tru Arts, Science gree College, H	Card I and a state

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	
1						-	1	2		2 ⁴⁴ unit test January	
2	LAND AND	3	4	3	6	.7	8	.9	14.Sankaramana	Inst wirek	
-	JANUARY 2021	10	11	12	13	14	15	16	26 Republic		
4		17	18	19	20	21	22	23	Day		
5		24	25	26	27	28	29	30			
6		31		CTC-CO-C		Carr					
1	_		T	2	3	-4	5	.6			
- 2	114100000000000000000	7	8	9	10	11	12	13			
3	FEBRUARY	14	15	16	17	18	19	20			
4	2021	21	22	23	24	25	26	27			
1.5		28									
- 1			1	an	an a	1.4	797	18	From March 02	31 st last working	
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		
4	2021	71	12	24	74		20	17	including		
£		28	79	1.30	94				NAAC work		
110									1. Holī		
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 ^m May		
5		25	26	27	28	29	30				
1								1		Government	
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 th May	17.Reopen & Online Dept.	
6		30	31							meeting	
1	1.	1	-						0		
3	feed of The De	Art.	at of Phy	rrice		2			PRINCIP	PAL a & Commerce MIRRAILL-20.	

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 [®] PTA meeting	
2	JUNE	6	4	8	9	10	31	12		15 th 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 th International webinar	
2	JULY 2021	394.0	5.	Ó	7.:	.8	9	10		15" dept. meeting	
3		3.1	12	13	14	15	16	17		24 d: 26 Unit test t(online.) 27to 30Unit test 2 (offline)	
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 ⁴¹ 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.

2

claud of The Denarmani of Physics

-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 ¹⁰ May to 30 ⁴⁰	
	SIME QUDSTYA ATWANE	Unit 4: #2	ollation	1.7 ^m May 10 30 ⁿ	
-5		United	ald intechanics	1° July to 30°	
	MISS. HEENA SAVANUR	Unit 1: Th	#rmodynamics	37 th May to 30 th	
		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 th June to 30 th	
		Unit 4: Th	ermoniectricity	17 th May to 15 th	
	MILL HEENA SAVANUR	Unit Sc Els	ictiomagnetic theory	1. ³⁴ 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 th 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 th Oct. 10 30 th 80th	
	Dr. M. S. YATRATTI	Unit 4: Abernating current	15 th Sep. to 30 th Oct.	
*		Unit 5: Electrical Instruments & measurements	1" New, to 30 ¹⁰ New.	
	Set. QUDSIVA	Unit 3: Fermat's principle, cardinal points & aberration	1" Nov. to 30 ^{%/} Nov.	
	ATWANE	Unit 3: current electricity, transient currents	15th Sep. to 30 th Out	
	MUL HEETILA. SHVANUR	Unit 2: Decimination	15 th sep to 50 th 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 ⁴ flow, to 32 ⁵⁰ Non.
		PAPER-2	Unit 2: Helatisty	\$5 th Sep. to 30 th Dol.
۷	Smt. QUESIVA ATWANI	PAPER-1	Unit 3: Classical mechanica	15 th Sep. 10.30 th 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.

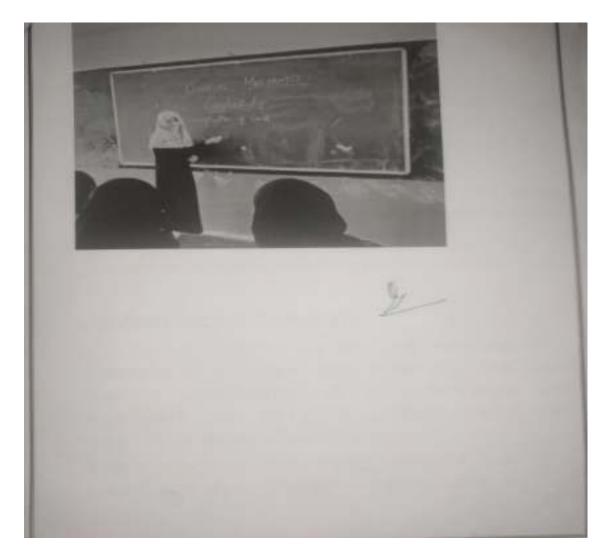
The constraints may be classified into two types: 1)Holonomic constraints and non-holonomic constraints.

2)Scleronomics and rheonomic constraints.

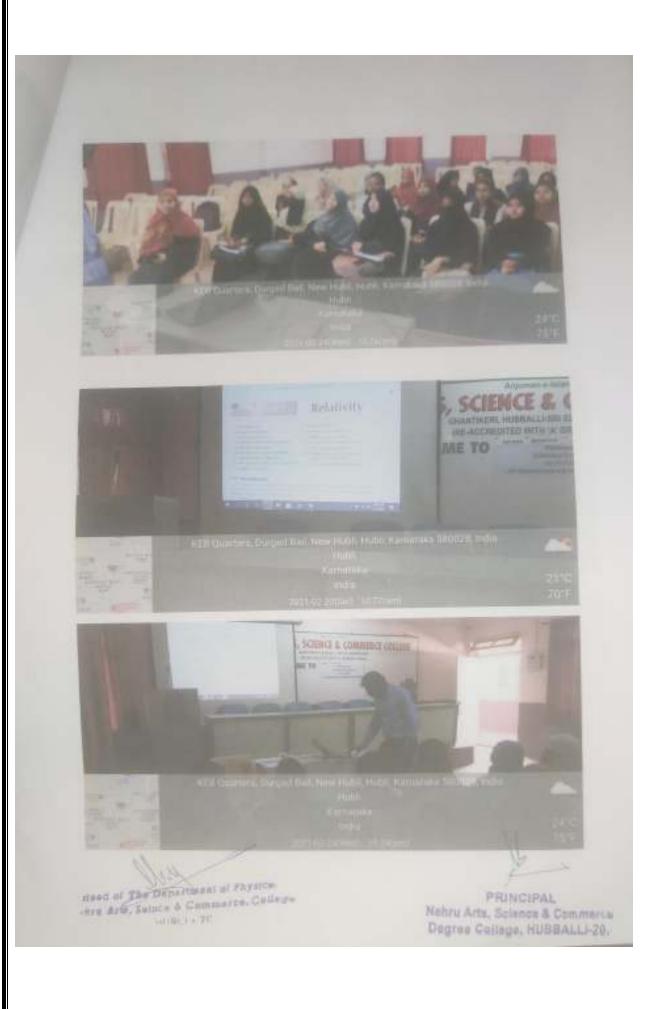
HOLONOMIC CONSTRAINTS

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:

m 1		44	CHANTIKERI, HUBLE TO TOTAI		Biock 04	11100
	m/sci	ATTE	NDANCE REPORT	Danst No.	Date : <u>b3 / nr / 3=3-</u> Time : <u>t0 20 31</u> Signature of the Carufidate	10 m
eet No.	Signature of the Candidate	11000	Bignoture of the Candidate	211	and the second se	
10.2	But .	214	Khadaal	245	Payeres S-29	
240	Omjarti	3012	Apellian	2465		1
204	Atran Chatti	346	Sit	-		1
206	Same	214	Deyntal	+		1
229	Nazilye	205	- Chippi	_		-
270	0 -10	20	Open of the			-
231	Q.A.	220	- 19			_
2.68		280	Ret	_		
2/12	Cuskas	238	- C2 B4			
22.3	ave	360	Brecogili			
220		236	1.20			
	d guy	241	Techyer			
	120 09	364	8/2-			
273	and the second se	234	a1			
278	Anter .	2.07	Anatavi			
2.08	and an and	2.16				
235	Conditos UNE	251	Clerke	-	-	

Dignature of the Supervision

to all	Thin	mail	Annes Ex	aminat	ion Held Subj	on	mysics	- 02		<u>m</u>
186	N		STATE	MEN						And a
	List Martin	and the second	Toront Adarbox	PROS PAGE	Total Manual	Real Mr.	Tutel Marks Out of	-	Carton	
Mall O	90 1010	Paul Hos	Cul of	2.45	14		-	-	-	
63	1.0	-		13.46	20	-	-	-	1	
EW	30	-	-	247	30		1	+	1	
湖石	9.0	-		243	70		-	+-	1	
U=7	7.0	-		257	20		-	+	-	
8.0	30	-	-	255	95	-	-	+	T	
2.119	20	-		2.56	20		-	-	T	
110	24	-	-	253	20		-	+-	+	
243	12-11	-	-	1.959		1	-	+	+	
215	20:	-	-	2.80	and the second se			+		
2.15/	0.0	-	-	2.83	20	-			-+-	
2115	30	+	-	2.65		1			-+-	
214	20	+		26		-			-+-	
12.70	20	-		2.6	7 20			-+-		
2.22	20	-		-	1	-	_			
325.	20	-	-	-				-	-	
254	and the second s	-	-	-			-			
225	30	-	-							_
2.26		-	-					-		
227			-							_
228	and the second second	-	-							
7.81	3.0		-							1
235	and the second se	-								N. COL
237	71 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-								
25	Contraction of the second	1	-	-					_	-
2.41		_								
24			-		-				-	-
240		3								

8. Remedial class

	CARDEL ARTIS, SETTING R. COMPARISON TO COMPANY AND A COMPANY AND A COMPANY REPARTMENT CLANDER FOR BALLING AN	
	NUMBER OF STREETS	
ARTICLE OF A	And in the American	
	ANTITAL BETTUNE	
1001103-01	Designer Aller Ball Colleges A	
THEORY	BALINET HIRAGE BARANCO	
- APRILIANT	SERVICE ADDRESS	
	PARCHURI BALLL BAVARIERD	
	LABR APPRICE	
- BALLINEY	same orall	
	And a second	
The second second second	IDENHI STR. MAADONIA V.S.	
A REGISTER PART	LINE PORT	
and the second se		
aspides.	IIII PHOA	
19913915	LIBR PHEA BIRR PHEA	
10010312 30013317 64613557	INTERPIES BEREINKER STROKT BRUNNER BONERD	
10011010 10011010 1001100 1001200	INTERPRET	
1999110114 9399110114 939912014 199112000 34012000	Interpreta. Antanania manana mananana manana mananani manana mananana mananana mananana mananana mananana mananana mananana mananana mananana manana manana manana manana manana manana manana manana manana manana manana manana manana mananana mananana mananana manana mananana mananana mananana mananana manana manana manananan	
1999110114 9399110114 939912014 199112000 34012000	Interpreta. Antanania manana mananana manana mananani manana mananana mananana mananana mananana mananana mananana mananana mananana mananana manana manana manana manana manana manana manana manana manana manana manana manana manana mananana mananana mananana manana mananana mananana mananana mananana manana manana manananan	
1999110114 9399110114 939912014 199112000 34012000	Interpreta. Antanania manana mananana manana mananani manana mananana mananana mananana mananana mananana mananana mananana mananana mananana manana manana manana manana manana manana manana manana manana manana manana manana manana mananana mananana mananana manana mananana mananana mananana mananana manana manana manananan	
any lights see lights man lights lights and lights and lights and		2
anniara anniar anniara anniar anniara anniara anniara anniar an	Interpreta. Antanania manana mananana manana mananani manana mananana mananana mananana mananana mananana mananana mananana mananana mananana manana manana manana manana manana manana manana manana manana manana manana manana manana mananana mananana mananana manana mananana mananana mananana mananana manana manana manananan	DEMINICIPAL HENRY Arts, Defenses & Co

Chans	Resident class	2010 ATTENE	DANCE	REGIS	TER
125/7-	Name of the October	100 7.2	No and And		Bankar man
	Deeplers	1	2 R.A.	17. 5	Theer
	Sutan Burgh		1 1 1 P	Galine.	T P F F F
	Skatanika in ppra		1 + 1 H		7 7 7 7 5 5
	assud	RTIAN - NO.	n h e le	du -	A b b n f
	Fand of The Decomption	Ronconel. Rohm Ann, Scherre & Co Pegree Oelinge, Kone			

9.Assignments

MERRY BREA SCHWARE HERE LAND SCHWARE Physica Bastqueeret Mamet- Drupara S Junamette Rall not of class :- Bass 22 th dem Rey Not - LARSZON Subject :- Thysics Plaper-TE. state our-bala 1) Buda Da Batanian Ber +) House Internet Range A Company of Company

BOLNED QUESTION PATER OF - 2015 TT-INGUAR - TT PRET-I · Prosent the fillenting questions Eining lander some Second by a) Barnerd & ST T. H. Materian (2) Oli dager do since of these b) T. H. Titsleman alloch of the following colours in teast mathemal to the construction of the co A cube menting with a relativistic speed with respect in sath Che meringe Ce The ____ When cleants mustbe in the best wittings constitution to prove the second to comparition to put the second of the second to put the second to p a the production of apertal theory of actuality.

10. Department Library Departmental -ZIBRARY PHYSICS. Mechanics 201 D.S. Mathur. Physics ber Bisc Ist Som (KUD) Dr. A. Sridhan & Dr. D. Sudhaka 202 Classical Mechanics. J. C. Upadheyaya, 203. Electricity & Magnetism. 204 Refresher Coursic in Physics. 205 Chand Milling MI s. Co-ordinate Greenedry, 206 M.L. Khanna . Head of The Department of Physical rebra Aris, Selace & Commerce, College HUBLI - 20

11.MOU s

Estil 1965

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

Anjuman-e-Islum's statio dere, mergis story story story out ginadab, marg - 580 020 NEHRU ARTS, SCIENCE AND COMMERCE COLLEGE GHANTIKERI, HUBBALLI - 580 020

(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.

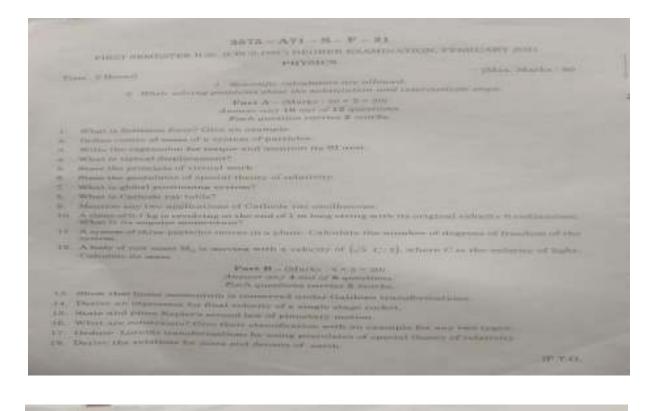
ENTRY INTO EFFECT AND TERMINATION:

- 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

8878-A21-8-F-21

- 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.

Minness (Minness Minness - 2.10) w (Minness of the emotion - 5.57 - 1000 km) means. The result of entry (177 - 107 cm)

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