



Anjuman-e-Islam's
NEHRU ARTS, SCIENCE AND COMMERCE COLLEGE
GANTIKERI, HUBLI - 580020
(RE-ACCREDITED WITH "A" GRADE BY NAAC 3rd Cycle)

DEPARTMENT OF MATHEMATICS

Meeting Register

Wednesday * Notice *

02-09-2020

The departmental meeting called on 02-09-20, Wednesday in the department of mathematics. The faculty members attend it without fail.

Time: 3.00 pm


Venue: Department.


* Agenda *

1. To discuss the online syllabus coverage
2. Regarding 2nd unit test for the final year students
3. Time table for the 2nd unit test.

~~Attendance~~ Attendance Report.

1. T.V. Marigoudar
HOD
2. Mrs. Jabeen Megawar
(Guest faculty).


HOD, Dept of Mathematics
Nehru Arts, Science & Commerce
College, HUBLI-580020.


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DEPARTMENT OF MATHEMATICS MASTER TIME TABLE

YEAR : 2020 - 2021

DAYS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
⇒ TIME						
8 - 9						
9-10		I - SEM	III - SEM	III - SEM	V - SEM	I - SEM
		V-SEM	V - SEM	V - SEM		V - SEM
10-11	V - SEM	V - SEM	I - SEM	V - SEM	V - SEM	I - SEM
					I - SEM	III - SEM
11-15	III - SEM					
12-15	I - SEM			III - SEM	III-SEM	V - SEM
12-15	III - SEM		I - SEM			
01-15	V - SEM	III - SEM	V - SEM			I - SEM
01-15			III - SEM	I - SEM		
02-15		V - SEM	V - SEM	V - SEM		III - SEM
02-15						
02-15	LAB & OTHER CURRICULAR ACTIVITIES					
I - SEMESTER	08 CLASSES		TOTAL WORKING HOURS : 33			
III - SEMESTER	10 - CLASSES		NUMBER OF FACULTIES : 02			
V - SEMESTER	15 - CLASSES					


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April 2021							
SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
				01	02	03	From 20 th GOVT declared holiday till to 4 May
04	05	06	07	08	09	10	
11	12	13	14	15	16	17	As per the order by the management and HOI worked on holidays
18	19	20 SLD	21 SLD	22 SLD	23 SLD	24 LD	SLD - semi lockdown LD - lockdown
25 LD	26 LD	27 LD	28 LD	29 LD	30 LD		
Note							

May 2021							
SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
						01 LD	From 20 th GOVT declared holiday till to 4 May - extended Upto June 21 - 2021
02 LD	03 LD	04 LD	05 LD	06 LD	07 LD	08 LD	
09 LD	10 LD	11 LD	12 LD	13 LD	14 LD	15 LD	As per the order by the management and HOI worked on holidays
16 LD	17 LD	18 LD	19 LD	20 LD	21 LD	22 LD	Online classes of even semester
	OC	OC	OC	OC	OC	OC	
23 LD	24 LD	25 LD	26 LD	27 LD	28 LD	29 LD	
	OC	OC	OC	OC	OC	OC	
30	31 LD						
	OC						
Note							


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February 2021							
SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
	01	02	03 CL	04	05	06	
07	08	09	10	11	12 Word M D	13	12 MATHS DAY
14	15	16	17	18	19	20	14 Maha shivarathri
21	22	23	24	25 cl	26	27	17 ICT Class 26 th NSS workshop
28							27 th workshop on maths at Ankola
Note	24 th Departmental meeting						

March 2021							
SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
	01	02	03	04	05	06	From 01 holiday as per KUD rule
07	08	09	10	11	12	13	From 02; Holiday cancelled the college HOI and imposed the work
14	15	16	17	18	19	20	
21	22	23	24	25	26	27	
28	29	30	31				
Note							


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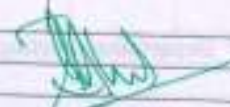
Odd Semester Regular offline classes from Dec 2020 to March 2021
December 2020

SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
		01	02	03	04	05	ONLINE CLASSES START FROM 08 TH ONWARDS
06	07 CL	08	09	10	11	12	
13	14	15	16	17	18	19	
20	21	22	23	24	25	26	26 AND 27 Gram Panchayat ED, Kandagula
27	28	29 CL	30 CL	31 CL			
Note							

January 2021

SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
					01	02	14 Holiday, SANKRANTI
03	04	05	06	07	08	09	16 ICT Class
10	11	12	13	14	15	16	19 NSS SWAMI VIVEKANAND JAYANTI
17	18	19	20	21	22	23	From 22 nd to 28th Second unit tests
24	25	26 REP DAY	27	28	29	30	
31							
Note 28 th Department meeting							


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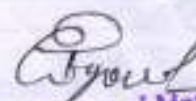
October 2020							
SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
				01	02	03	
04	05	06	07	08	09	10	Central valuation AT hod
11	12	13	14	15	16	17	30 holiday.. Eid
18	19	20	21	22	23	24	
25	26	27	28	29	30	31	
Note							

November 2020							
SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
01	02	03	04	05	06	07	14, Holiday, deepawali
08	09	10	11	12	13	14	
15	16	17	18	19	20	21	
22	23	24	25	26	27	28	
29	30						
Note							



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August 2020							
SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
						01	
02	03	04	05	06	07	08	From 22 onwards ON LINE CLASSES FOR THE I, II AND III YEAR BSc STUDENTS AS PER BY THE GOVT ORDER
09	10	11	12	13	14	15 Ind day	
16	17	18	19	20	21	22	ON LINE CLASSES FOR THE I, II AND III YEAR BSc STUDENTS AS PER BY THE GOVT ORDER
23	24	25	26	27	28	29	
30							
Note							

September 2020							
SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
		01	02	03	04	05	
06	07	08	09	10	11	12	2nd unit test for the VI sem from 03 to 09
13	14	15	16	17	18	19	Only final year main exams from 15 th to 30 th sep
20	21	22	23	24	25	26	ON LINE CLASSES FOR THE I, II AND III YEAR BSc STUDENTS AS PER BY THE GOVT ORDER
27	28	29	30				
Note							

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June 2020							
SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
	01	02	03	04	05	06	
07	08	09	10	11	12	13	From 04 to 15 onwards ON LINE CLASSES FOR THE I, II AND III YEAR BSc STUDENTS AS PER BY THE GOVT ORDER
14	15	16	17	18	19	20	
21	22	23	24	25	26	27	ON LINE CLASSES FOR THE I, II AND III YEAR BSc STUDENTS AS PER BY THE GOVT ORDER
28	29	30					
Note							

July 2020							
SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
			01	02	03	04	
05	06	07	08	09	10	11	From 22 onwards ON LINE CLASSES FOR THE I, II AND III YEAR BSc STUDENTS AS PER BY THE GOVT ORDER
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	ON LINE CLASSES FOR THE I, II AND III YEAR BSc STUDENTS AS PER BY THE GOVT ORDER
26	27	28	29	30	31		
Note							


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Department of Mathematics

Calendar of Events 2020-2021

April 2020							
SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
			01	02	03	04	ON LINE CLASSES FOR THE I, II AND III YEAR BSc STUDENTS AS PER BY THE GOVT ORDER
05	06	07	08	09	10	11	
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	
26	27	28	29	30			
Note							

May 2020							
SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
					01	02	From 04 onwards ON LINE CLASSES FOR THE I, II AND III YEAR BSc STUDENTS AS PER BY THE GOVT ORDER
03	04	05	06	07	08	09	
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
24	25	26	27	28	29	30	
31							
Note							


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June 2021							
SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
		01 LD OC	02 LD OC	03 LD OC	04 LD OC	05 LD OC	From 20 th GOVT declared holiday till to 4 May extended Upto June 21 - 2021
06 LD	07 LD	08 LD	09 LD	10 LD	11 LD	12 LD	
13 LD	14 LD	15 LD	16 LD	17 LD	18 LD	19 LD	As per the order by the management and HOI worked on holidays
20 LD	21 LO OC	22 LO OC	23 LO OC	24 LO OC	25 LO OC	26 LO OC	Online classes of even semester from 18 th May
27 LO	28 LO OC duty	29 LO OC meeting	30 LO OC work				
Note							

July 2021							
SUN	MON	TUE	WED	THU	FRI	SAT	SUMMARY
				01	02	03	
04	05	06	07	08	09	10	Confidential work AT kud
11	12	13	14	15	16	17	27 offline classes starts
18	19	20	21	22	23	24	
25	26	27 CL	28 CL	29	30	31	
Note 30, Departmental Meeting							

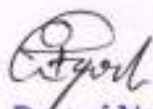
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UNITIZATIONS

Course	B.Sc Mathematics Non CBCS	Class	5 th Semester	Paper	III
Title of the paper ; STATICS AND LAPLACE TRANSFORM					
Name of the Faculty	Miss. Jabeen Mujawar				
Month and Year	Units & Syllabus	Number of hours covered	Number of marks Covered		
December 2020 to February 2021	UNIT – I DEFINITIONS of couples and Moment of a couple and geometrical representation. Varginan's Theorem Resultant of coplanar couples. Resultant of forces and a couples. Resultant of a system of coplanar forces acting at a different points of a rigid body. Conditions of equilibrium forces couples, Finding the equations off the line of actions the resultant	20 hrs	63 Marks		
	UNIT – II Laplace Transform: Definition and properties of LT. Periodic Functions (definition theorem of LT of PF and sums) Derivatives of LT Integration of LT Inverse LT and sums LT of solving differential equations of first and second order with constant coefficients Heavy side functions and direc delta functions and sums.	20 hrs	63 Marks		
	Four Units	40 hours	126 Marks		



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UNITIZATIONS


Course	B.Sc Mathematics Non CBCS	Class	5 th Semester	Paper	II
Title of the paper ; NUMERICAL ANALYSIS					
Name of the Faculty	Shri. T.V.Marigoudar				
Month and Year	Units & Syllabus	Number of hours covered	Number of marks Covered		
December 2020 to February 2021	UNIT – I Solution of System of non Linear equations: Introduction, intermediate property Solution of equations by the following methods: Bisection method Regula-Falsi Method Secant Method Newton Raphson Method Iteration Method	10 hrs	34 Marks		
	UNIT – II Solution of System of Linear equations: Gauss Elimination Method Gauss Siedal Method Gauss Iteration Method	10 hrs	29 Marks		
	UNIT – III Finite Differences: Forward and backward differences formation of differences tables. The relation between forward, backward, shifting operator and differential operators. Newton greogary Forward and Backward difference formula. Lagranges formula for the unequal intervals.	10 hrs	44 Marks		
	UNIT – IV Least Square methods: Method of finding the derivative using the F & B differences. Numerical Integrations: Newton cote's Formula, Simpsons 1/3 rd and 3/8 th Formula. Trapezoidal Rule, least square of best fitting of straight lines.	10 hrs	19 Marks		
	Four Units	40 hours	126 Marks		


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UNITIZATIONS

Subject: Mathematics		Year : 2020 to 2021			
December 2020 to February 2021					
Course	B.Sc Mathematics Non CBCS	Class	5 th Semester	Paper	I
Title of the paper ; REAL ANALYSIS					
Name of the Faculty	Miss: Jabeen Mujawar				
Month and Year	Units & Syllabus	Number of hours covered	Number of marks Covered		
December 2020 to February 2021	UNIT – I The Riemann Integration: Definition of Upper and Lower Sums. Related Theorems and Examples. Necessary and Sufficient condition of R – Integrable Algebra of Integral Functions Integrability of continous and monotonic functions, Fundamental theorem of integral calculus. Change of variables, Integral by parts, The First Mean value theorem The second Mean value theorem of integral calculus,. Examples	20 hrs	46 Marks		
	UNIT – II Improper Integrations; Definition and examples. Improper integrals of first and second kind. Comparison test.Able's Test and Dirchlet's Test and examples.	10 hrs	29 Marks		
	UNIT – III Beta and Gamma Functions: Definition of Beta and Gamma functions, Relation between them by theorems Sums on it.	10 hrs	20 Marks		
	UNIT – IV Double and triple Integration: Differentiations under integral sign. Integration under integral sign. Double and triple integrations.	10 hrs	31 Marks		
	Four Units	40 hours	126 Marks		


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UNITIZATIONS

Course	B.Sc Mathematics Non CBCS	Class	3 rd Semester	Paper	I
Title of the paper : ALGEBRA & NUMBER THEORY					
Name of the Faculty	Shri: T.V.Marigoudar				
Month and Year	Units & Syllabus		Number of hours covered	Number of marks Covered	
December 2020 to February 2021	UNIT – I ELEMENTS OF SET THEORY Recaptulation of sets, union intersection of sets. Equivalence relations. Partian of a set. Arbitrary union intersection of a set. DeMorgan's Laws. Countable and uncountable sets.		10 hrs	24 Marks	
	UNIT – II NUMBER THEORY Divisibility definition and properties. GCD of two integers, The Euclidean Algorithm. Congruences and properties . Fundamental theorem of Arithematic, Eulers function, Fermat's and Wilson's Theorem		10 hrs	29 Marks	
	UNIT – III GROUP THEORY Group, Abelian group properties and examples. Subgroups, permutation of a group. Cyclic group. Cosets, Lagranges theorem. Normal subgroup and quotient groups. Homomorphism and isomorphism and kernel of homomorphism of a group. Fundamental theores of homomorphism.		20 hrs	53 Marks	
	UNIT – IV Double and triple Integration: Differentiations under integral sign. Integration under integral sign. Double and triple integrations.		10 hrs	31 Marks	
	Four Units		40 hours	106 Marks	



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DEPARTMENT OF MATHEMATICS

EFFECTIVE CURRICULUM DELIVERY THROUGH SEMINARS

Students Seminars from 2020 – 2021			
Sl No	Name of the students	Class	Topic of the Seminar
01	Miss.Saniya Fairoz	B.Sc VI Semester	Topology and Separable Spaces
02	Miss.Farida Kousar	B.Sc VI Semester	M-Modeling
03	Miss.K Sana Begum	B.Sc VI Semester	Residues and C-Residue theorem
04	Miss.Mahe Sabreen Morab	B.Sc VI Semester	Fourier Transformations


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Department of Mathematics
Group Discussion

Sl No	Date	Class	No of students involved	Topic
01	30-01-2021	B.Sc 5th sem	41	Advantage of Numerical methods

Summary

Group Discussion classes conducted for the fifth semester students, there were 41 students attended and divided them into four groups. In Numerical Analysis out of four units the First unit Solution of non linear equations by Bisection method, Regula Falsi Method, Secant Method, Newton Raphson Method and Iterative Method. It can be selected for the discussion after two hours of discussion all the four groups overcome with the following points.

Overcome:

- Bisection Method is easier for solving equations but it takes many iterations for the accuracy.
- Regula Falsi Method is good and easier than Bisection but the process is lengthy.
- Secant Method is similar to R-F Method so need it for solving equations.
- Newton Raphson method is very good than the above methods from this we get desired accuracy with minimum steps and it formulate many results such as formula for cube roots, fourth roots and many.
- Iterative Method not for all the time helps it is for only Particular sums

Group Discussion conducted by,
Faculties 1. T.V.Marigoudar
2. Miss: Jabeen Mujawar

NEHRU ARTS, SCIENCE & COMMERCE DEGREE COLLEGE, HUBLI.

Department of Mathematics
Group - Discussion

Date: 13-02-2021

Attendance Report

Seat No.	Signature of the Candidate	Seat No.	Signature of the Candidate	Seat No.	Signature of the Candidate
45		56		44	
15		07		35	
05		22		21	
31		03		59	
37		60		61	
16		38			
08		10			
19		58			
15		24			
34		39			
55		46			
25		42			
35		12			
41		57 57			
17		10			
61		48			
33		18			
28		01			

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Signature of the Supervisor



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DEPARTMENT OF MATHEMATICS

During the year 2020 – 2021

ICT classes conducted for the B.Sc fifth semester students.

Total Number of hours 40

Sl No	Class	PPT topic	Date
01	B.Sc V Sem	Numerical Analysis 1) Bisection Method And Examples 2) Regula Falsi and Secant Method and Examples 3) Newton Raphson method and examples 4) Iteration method and examples	From 08 - 12 - 2020 To 18 - 12 - 2020
02	B.Sc V Sem	Solution of Linear equations 1) Gauss Elimination Method 2) Gauss Jordan method 3) Gauss Siedal iteration Method	From 19 - 12 - 2020 To 25 - 02 - 2020
03	B.Sc V Sem	Finite Difference 1) Operators and relations 2) FW & BW difference tables and examples 3) NGFIF and NGBIF theorems and sums 4) Lagranges Interpolation formula and sums	From 04 - 01 - 2021 To 21 - 01 - 2021
04	B.Sc V Sem	Numerical Differentiation And Numerical Integration	From 04 - 02 - 2021 To 20 - 02 - 2021


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1st unit Test Internal Test Records
Anjuman-e-Islam's Year 2020-2021

NEHRU ARTS, SCIENCE & COMMERCE DEGREE COLLEGE, HUBLI.

Test Held on _____ Class BSc - II Sem Subject Maths

Paper - I

STATEMENT OF MARKS Paper - IInd

Roll No.	Total Marks out of	Roll No.	Total Marks out of	Roll No.	Total Marks out of	Roll No.	Total Marks out of	Roll No.	Total Marks out of
03	20	60	18			03	20	60	18
04	20	65	20			04	20	65	20
06	20	66	20			06	20	66	20
07	20	74	20			07	20	74	20
08	20	78	20			08	20	78	20
10	20	81	20			10	20	81	20
12	20					12	20		
13	20					13	20		
17	20					17	20		
18	19					18	19		
19	20					19	20		
21	20					21	20		
22	20					22	20		
24	20					24	20		
25	20					25	20		
26	20					26	20		
28	18					28	18		
30	20					30	20		
33	18					33	18		
38	20					38	20		
39	20					39	20		
40	20					40	20		
41	20					41	20		
42	20					42	20		
45	20					45	20		
47	20					47	20		
48	20					48	20		
49	18					49	18		
50	20					50	20		
51	20					51	20		
55	18					55	18		
57	20					57	20		
58	18					58	18		
59	18					59	18		

Name & Sign. of H.O.D. / Dept. of Mathematics

Name & Sign. of Examiner

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1st unit Test Internal Test Records
Anjuman-e-Islam's Year 2020-2021

NEHRU ARTS, SCIENCE & COMMERCE DEGREE COLLEGE, HUBLI.

Test Held on _____ Class BSc - II Sem Subject Maths

Paper - I

STATEMENT OF MARKS paper - IInd

Roll No.	Total Marks out of	Roll No.	Total Marks out of	Roll No.	Total Marks out of	Roll No.	Total Marks out of	Roll No.	Total Marks out of
03	20	60	18			03	20	60	18
04	20	65	20			04	20	65	20
06	20	66	20			06	20	66	20
07	20	74	20			07	20	74	20
08	20	78	20			08	20	78	20
10	20	81	20			10	20	81	20
12	20					12	20		
13	20					13	20		
17	20					17	20		
18	19					18	19		
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26	20					26	20		
28	18					28	18		
30	20					30	20		
33	18					33	18		
38	20					38	20		
39	20					39	20		
40	20					40	20		
41	20					41	20		
42	20					42	20		
45	20					45	20		
47	20					47	20		
48	20					48	20		
49	18					49	18		
50	20					50	20		
51	20					51	20		
55	18					55	18		
57	20					57	20		
58	18					58	18		
59	18					59	18		

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Name & Sign. of H.O.D. Dr. Iqbal Dept. of Mathematics
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DEPARTMENT OF MATHEMATICS

Remedial classes for the slow/average learners Year 2020 -2021

Sl No	Name of the Candidates	Semester
01	Sabafalomas Hongal	III/IV Sem
02	Noorain Shaikh	III/IV Sem
03	Munirabegum	III/IV Sem
04	Sharanabasapp Tegghalli	III/IV Sem
05	Mr.Srikanth Hiremath	III/IV Sem
06	Madanasab Bagewadi	III/IV Sem
07	Prajwal Chabbi	III/IV Sem

Time Table for the Remedial Classes				
Class	Month & Time		Syllabus covered	Remark
B.Sc III – Sem	Jan Month	5 hrs	Paper I, set theory	
	Feb Month	5 hrs	Paper I, Group Theory	
	March Month	5 hrs	Ring & Fields, Trigonometry	


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Sl No	Name of the Candidates	Semester
01	Anupama Janamatti	V/VI Sem
02	Mr.Ganesh Atterawal	V/VI Sem
03	Mr. Mustafamiya	V/VI Sem
04	Meenaz Mulla	V/VI Sem
05	Tahaseen Neelagar	V/VI Sem

Time Table for the Remedial Classes				
Class	Month & Time		Syllabus covered	Remark
B.Sc II – Sem	Dec Month	5 hrs	Paper I:real analysis and the important results	
	Jan Month	5 hrs	Numerical Analysis:solution of system of equations by different methods has been derived	
	Feb Month	5 hrs	Revision taken on stastics and laplace transform	
	March month	5 hrs	Solving model question papers	


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Reference:

1. Text Book of Complex variable
B.S. Tyagi
2. Introduction of complex variables
by J.N. sharma
3. Notes provided by Nehru College
faculties
4. Web help

Thank - You.

Verified
Proceed

P. J. J.

Prof. Dept of Mathematics
Nehru Arts, Science & Commerce
College, HUBLI-580020.

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**NEHRU ARTS, SCIENCE AND COMMERCE
DEGREE COLLEGE**

GANTIKERI HUBLI - 580020

NAAC RE - ACCREDITED WITH 'A' GRADE



ASSIGNMENT

DEPARTMENT	Mathematics	PAPER	
CLASS	B.Sc Semester		
ROLL NUMBER	38		
EXAMINATION ENROOL NUMBER	18512216		

CERTIFICATE

This is to certify that shri/kuñ Ganesh. M

has satisfactorily completed the course of assignment work in

T. V. Mengoudar under my

Supervision in the department of mathematics, during the year

2020 - 2021.

Subject Faculty


HOD, Dept of Mathematics
Nehru Arts, Science & Commerce
College, HUBLI-580020.
Head of the department

INDEX

SL NO	Assignment title	Page	Remark																
8	Construct the table of difference for the data below;	05																	
	<table border="1" style="margin-left: 20px;"> <tr> <td>x</td> <td>0</td> <td>10</td> <td>20</td> <td>30</td> <td>40</td> </tr> <tr> <td>f(x)</td> <td>1</td> <td>1.5</td> <td>2.2</td> <td>3.1</td> <td>4.6</td> </tr> </table>	x	0	10	20	30	40	f(x)	1	1.5	2.2	3.1	4.6						
x	0	10	20	30	40														
f(x)	1	1.5	2.2	3.1	4.6														
	Evaluate: $\Delta^2 f(20)$, $\Delta^3 f(10)$ & $\Delta^4 f(0)$.																		
9	Find the missing terms in the following table.	06																	
	<table border="1" style="margin-left: 20px;"> <tr> <td>x</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td>y</td> <td>25</td> <td>-</td> <td>49</td> <td>-</td> <td>81</td> </tr> </table>	x	1	2	3	4	5	y	25	-	49	-	81						
x	1	2	3	4	5														
y	25	-	49	-	81														
10	Estimate the missing term in the following table.	07																	
	<table border="1" style="margin-left: 20px;"> <tr> <td>x</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> </tr> <tr> <td>y</td> <td>2</td> <td>4</td> <td>8</td> <td>-</td> <td>32</td> <td>64</td> <td>128</td> </tr> </table>	x	1	2	3	4	5	6	7	y	2	4	8	-	32	64	128		
x	1	2	3	4	5	6	7												
y	2	4	8	-	32	64	128												
11	Find the 10 th term of 3, 14, 39, 84, 155, 285 by constructing difference table.	08																	
	<table border="1" style="margin-left: 20px;"> <tr> <td>x</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td>y</td> <td>3</td> <td>14</td> <td>39</td> <td>84</td> <td>155</td> <td>285</td> </tr> </table>	x	1	2	3	4	5	6	y	3	14	39	84	155	285				
x	1	2	3	4	5	6													
y	3	14	39	84	155	285													

Prove that

$$1. E\Delta = \Delta E$$

$$2. E = 1 + \Delta$$

$$3. \nabla = 1 - E^{-1}$$

$$4. \nabla = \Delta E^{-1}$$

$$5. E = e^{hD} \text{ or } hD = \log E, \text{ where } D = \frac{d}{dx}$$

$$1. E\Delta = \Delta E$$

$$\text{Proof: } E\Delta f(x) = E[f(x+h) - f(x)]$$

$$= Ef(x+h) - Ef(x)$$

$$= f(x+2h) - f(x+h)$$

$$= \Delta f(x+h)$$

$$E\Delta f(x) = \Delta Ef(x)$$

Therefore, $E\Delta = \Delta E$

$$2. E = 1 + \Delta$$

$$\text{Proof: } \Delta f(x) = f(x+h) - f(x)$$

$$= Ef(x) - f(x)$$

$$= (E-1)f(x)$$

$$E-1 = \Delta$$

Therefore, $E = 1 + \Delta$

$$3. \nabla = 1 - E^{-1}$$

$$\text{Proof: } \nabla f(x) = f(x) - f(x-h)$$

$$= f(x) - E^{-1} f(x)$$

$$\nabla f(x) = (1 - E^{-1}) f(x)$$

$$\text{Therefore, } \nabla = 1 - E^{-1}$$

$$4. \nabla = \Delta E^{-1}$$

$$\text{Proof: } \nabla f(x) = f(x) - f(x-h)$$

$$= \Delta f(x-h)$$

$$= \Delta E^{-1} f(x)$$

$$\text{Therefore, } \nabla = \Delta E^{-1}$$

$$5. E = e^{hD} \text{ or } hD = \log E, \text{ where } D = \frac{d}{dx}$$

Proof: By Taylor's series

$$f(x+h) = f(x) + hf'(x) + \frac{h^2}{2!} f''(x) + \dots$$

$$E f(x) = f(x) + hDf(x) + \frac{h^2}{2!} D^2 f(x) + \dots$$

$$E f(x) = \left\{ 1 + hD + \frac{h^2}{2!} D^2 + \dots \right\} f(x)$$

$$E f(x) = e^{hD} f(x)$$

$$\text{Therefore, } E = e^{hD}$$

QUESTION BANKS

S.No	
1	State and Prove necessary and Sufficient condition for a function $f(x)$ to be differentiable in $[a, b]$
2	If a function $f(x)$ is bounded and R differentiable in $[a, b]$, then prove that $m(b - a) \leq \int_a^b f(x) dx \leq M(b - a)$
3	If $f(x)$ and $g(x)$ are bounded and R differentiable in $[a, b]$, then prove that $ f(x) - g(x) $ is also R differentiable in $[a, b]$, also Prove that $\int_a^b [f(x) + g(x)] dx = \int_a^b f(x) dx + \int_a^b g(x) dx$
4	If $\lim_{n \rightarrow \infty} \left \frac{f(n)}{g(n)} \right = L$, where $L \neq 0$ and L is not infinite then prove that $\int_a^b f(x) dx \neq L \int_a^b g(x) dx$ either both converge or diverge together
5	State and Prove fundamental theorem of integral calculus
6	State and Prove differentiable test for the convergence of the product of two functions
7	State and Prove differentiable test for the convergence of the product of two functions
8	State and prove first mean value theorem and hence show that $\frac{0^+}{24} < \int_0^1 \frac{x^2}{2 + 3 \cos x} dx < \frac{0^+}{6}$

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9	With usual notation Prove that $\frac{d}{dt} \int_a^b f(x, y) dx = \int_a^b f_t(x, y) dx$
10	Prove that: (i) $\lim_{n \rightarrow \infty} \int_0^1 \frac{x^{2n-1}}{(1+x)^{2n-2}} dx = \frac{\ln 2}{\ln 3}$ (ii) $\lim_{n \rightarrow \infty} \int_0^1 \frac{dx}{\sqrt{\sin x}} = 0$
11	Prove that: $\int_0^{\frac{\pi}{2}} \frac{dx}{\sqrt{\sin x}} = \int_0^{\frac{\pi}{2}} \sqrt{\sin x} dx = 0$
12	Find the volume of the sphere $x^2 + y^2 + z^2 = a^2$ by triple integral
13	Find the volume of the tetrahedron bounded by the three coordinate planes and $\frac{x}{2} + \frac{y}{3} + \frac{z}{4} = 1$
14	Find the volume of the ellipsoid $\frac{x^2}{4} + \frac{y^2}{9} + \frac{z^2}{16} = 1$ Using triple integration.

Name of Candidate	Books Name	Class
12.	Tasmiya Jagirkar	General Topology
		B.Sc 6 th sem
13.	Shagufta	Analytical Geometry
		B.Sc 2 nd sem
14.	Vinaya kote	B.Sc. Mathematics
		Vol 1 part 1
15.	Peer hashmi Kuppavar	Higher Algebra
		B.Sc 2 nd sem
16.	M. Sandeep	Algebra
		B.Sc 2 nd sem
17.	Sohail Ahmed	Co-ordinate Geometry
		B.Sc 2 nd sem
18.	Nafisa Bijapur	Mathematics and its History
		B.Sc 2 nd sem

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DEPARTMENT OF MATHEMATICS

DEPARTMENT LIBRARY

Department : MATHEMATICS

Departmental Library

Number of Text Books in the department

S no	Name of the book	Author	No of copies
1	Elements of real analysis	Shanti Narayan	2
2	Numerical Analysis	B D Gupta	1
3	Finite Difference and Numerical Analysis	H C Sexena	1
4	Vector analysis	Shanti Narayan	1
5	Functional Analysis	Pawan K Jain	1
6	Partial Differential Equations	Renuk Ravindra	1
7	Higher Algebra	M Ray and H S Sharma	2
8	Probability Theory	M Ray and H S Sharma	1
9	BSc Mathematics vol 1 part 1	G K Ranganath	1
10	BSc Mathematics	Vinaya S Chikatti	5
11	Introduction to Topology	J V Despande	1
12	Engineering Mathematics	Dr.K S C	2
13	Differential Geometry	Bansi Lal	1
14	Solid Geometry	N P Bali	3
15	Maths Series and Geometry	Golden Series	1
16	Analytical Geometry	Shanti Narayan	2
17	Co-Ordinate Geometry	N P Bali	2
18	Mechanism	P duraipandian	1
19	Mathematical Statics for Economics	G S Monga	1
20	General Topology	M G Muradeshwar	1
21	Real Analysis	N P Bali	2
22	Topology	M L Khanna	1
23	Topology	J N Sharma	1
24	Topology	Srivastava and Azad	1
25	Topology	J N Sharma	1
26	Modern Algebra	M D raisinghania	1
27	Linear Algebra	Golden Series	2
28	Modern Algebra	Sharma and Seth	1
29	Algebra	Golden Series	2
30	Higher Algebra	Hall and Knight	1

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31	Modern Algebra	R U Verma	1
32	Vector Algebra	Golden series	2
33	Linear Algebra	Golden series	2
34	Vector Calculus	Golden series	2
35	Elements of Matrices	Ray and seth	1
36	Differential Calculus	Golden series	1
37	Applications of Calculus	Debasis and Gupta	1
38	Simplified Course in Trigonometry	M D RAisinghania	1
39	Dynamics	N P Bali	2
40	Mathematics and its History	John stillwal	1
41	Mathematics for degree students	Dr.P K Mittal	1
42	Topology	M L khanna	1
43	BSc mathematics	V s chikatti	5
44	Integral Calculus	M K khanna	1
45	Integral Calculus	Golden Series	2
46	Algebra and Plane Geometry	A K Joshi	1
47	Differential Equations	Golden Series	2
48	College Mathematics	Jayaram Prabhakar	1
49	The mathematics Education	H M Shirinivas	1
50	Sequene and Infinite Series	N P Bali	2
51	Problems In Mathematics	S S Bosco	2
52	Co-Ordinate Geometry of 3D	Ramaprasad and sons	1
53	Probability and Queening Theory	Dr. P Kandasamy	1
54	Concise BSc maths part I	Dr.S S Bhoosunarmath	2
55	Concise BSc maths part II	Dr.S S Bhoosunarmath	2
56	Concise BSc maths part III & IV	Dr.S S Bhoosunarmath	2
57	Higher Engineering Mathematics	B S agarawal	1
58	College Mathematics	Jayaram	1
59	Matrices	Golden Series	2
60	A text Book of Mathematics	G K Ranganath	1
61	Common Entrance Text Book	Dr.A H Rama Rao	1
62	Theory of Numbers	Golden Series	2
63	Graph Theory	Frank Harary	1
64	Elements of real analysis	Shanti Narayana	1
65	Solid Geometry	Dr.Hari Krishna	1
66	Topics in Algebra	I N Herstein	1
67	Real Analysis	L S Varshney	1
68	College mathematics	Himalaya publication	1
69	Vector Calculus	R Gupta	1
70	Matrices	R Gupta	1
71	Ordinary Differential Equation	Earl A Coddington	1
72	Data Structure and Algorithms	Alfred V Aho (Pearson)	1

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LIST OF DEPARTMENTAL PROGRAMMES	
NAME OF THE DEPARTMENT:	Mathematics
FACULTIES:	1. T.V. Marigoudar (Regular) M.Sc, M.Phil
	2. Miss: Jabeen Muniyar (Guest Faculty) M.Sc
PROGRAMMES	
01	International Day of Mathematics
02	National Mathematics day on the occasion of Birthday of Mathematician Srinivas Ramanujan

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HUBBALLI- 580020, KARNATAKA**

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Affiliated to Karnatak University, Dharwad

IQAC Initiative

The Department of Mathematics

INVITATION

National Mathematics day on the occasion of Birthday of Mathematician Srinivas Ramanujan

On this occasion we organise lecture by, Prof. T.D. Rayanagoudar

Department of mathematics, GFGC Hubballi

All of you are cordially invited

Date: 22-12-2020

Timing: 3.00 pm

Venue: Sabha Bhavan(NCH)

Prof.T.V.Marigoudar
Organising Secretary

Dr.S.M.Chillur
IQAC Co-ordinator

Dr. M.S. Yathatti
NAAC Co-ordinator

Prof.Syed Feroze Ahmed
Principal



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IQAC Initiative

The Department of Mathematics

INVITATION

International Day of Mathematics

On this occasion we organise lecture by, Prof. S.H. Doddagoudar

Department of mathematics, GFGC Hirekerur

All of you are cordially invited

Date: 12-02-2020

Timing: 3.00 pm

Venue: Sabha Bhavan(NCH)


Prof.T.V.Marigoudar
Organising Secretary

Dr.S.M.Chillur
IQAC Co-ordinator

Dr. M.S. Yarnatti
NAAC Co-ordinator

Prof.Syed Feroze Ahmed
Principal

<u>Sl No</u>	Signature Of The Student
62)	<i>[Signature]</i>
63)	<i>[Signature]</i>
64)	<i>Nisha Indira</i>
65)	<i>Parveen</i>
66)	<i>[Signature]</i>
67)	<i>[Signature]</i>
68)	<i>K.R. Tareen</i>
69)	<i>[Signature]</i>
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78)	<i>[Signature]</i>
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87)	<i>Y. Shaikh</i>
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Date: 10-02-2020

NOTICE

On the occasion of "International Day of mathematics " The department of Mathematics organizing the special Lecture by the Prof. S.H.Doddagoudar Govt First grade college, Hirekerur all the faculty members and the students attend the programme.

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SI
NO
Signature of the
students

- 33) Nagaraj naik
- 34) Rupa
- 35) ~~Wahab~~
- 36) ~~Fatin~~
- 37) ~~Alal~~
- 38) ~~Amal~~
- 39) ~~Tal~~
- 40) ~~Kamal~~
- 41) ~~PP. Kulkarni~~
- 42) ~~Amal~~
- 43) ~~Blau~~
- 44) ~~Maam~~
- 45) ~~Amal~~
- 46) ~~Amal~~
- 47) ~~Mahadus~~
- 48) ~~Amal~~
- 49) ~~Amal~~
- 50) ~~Fatin~~
- 51) ~~Amal~~
- 52) ~~Gowriya M. K~~
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SI No	Signature of the Students	Name
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Press-Report :

Hubballi:Date 22 Dec 21, On the occasion of 124th Birthday of Srinivas ramanujan.The national mathematics Day Celebrated in the Nehru arts, science and commerce college,Hubballi. The Chief-Guest of the function is Dr.T.D.Rayanagoudar, Professor Department of Mathematics, Government First Grade College, Hubballi he given the special Lecturer on the Importance and Contribution of Ramnaujan invenetations, there were about 120 students attended the function along with faculties. The function followed by the Introduction and well come speech by HOD, of Mathematics T.V.Marigoudar and presidential remark by the head of the institution Professor Sayed Firoz Ahmed and concluded by the vote of thanks by IQAC coordinator Prof S.M.Chillur.



Press-Report :

Hubballi:14th march,2021; On the occasion of International Day of national mathematics The Special Lecture is arranged in the Nehru arts, science and commerce college,Hubballi. The Chief-Guest of the function is Shri.S.H.Doddagoudar , Professor Department of Mathematics, Government First Grade College, Hirekerur given the special Lecturer on the Importance and Contribution of World Mathematicians and Indians, there were about 120 students attended the function along with faculties. The function followed by the Introduction and well come speech by HOD, of Mathematics T.V.Marigoudar and presidential remark by the head of the institution Professor Sayed Firoz.Ahmed and concluded by the vote of thanks by IQAC coordinator Prof S.M.Chillur.


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*National
Mathematics Day*




**IDEAL
INTERNATIONAL
SCHOOL**




22 NATIONAL
DECEMBER MATHEMATICS
DAY

**DEPARTMENT OF
MATHEMATICS NEHRU ARTS,
SCIENCE AND COMMERCE
COLLEGE, HUBBALLI-580020**

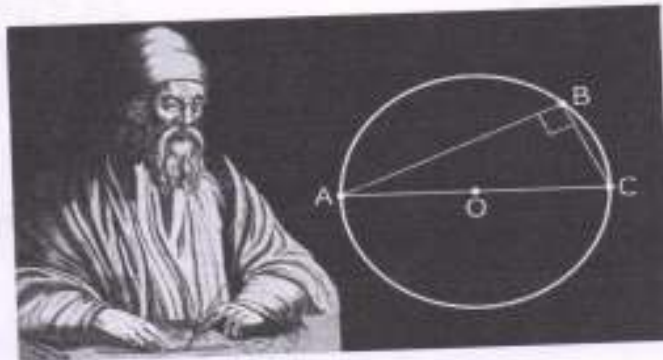
22nd December, 2020


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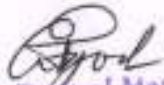



INTERNATIONAL DAY OF
MATHEMATICS!
MARCH 14



DEPARTMENT OF
MATHEMATICS NEHRU ARTS,
SCIENCE AND COMMERCE

14th March, 2021


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Date: 10-02-2020

NOTICE

On the occasion of "International Day of mathematics " The department of Mathematics organizing the special Lecture by the Prof. S.H.Doddagoudar Govt First grade college, Hirekerur all the faculty members and the students attend the programme.

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