

RajarshiShahuMahavidyalaya (Autonomous), Latur

Structured Work Plan for Teaching First/ThirdTerm (Jun 2022 to Oct2022) **Department of Mathematics**

Name: Shivkanya Dinkar Shinde 1. Details of Classes to be taught

28 Lectures/Week	TOTAL						
02	Project Guidence(2 Group)	P-PRO-370			III Sem	M.ScII	7
01	Seminar	P-SEM-371			III Sem	M.ScII	6
01	Seminar	P-SEM-170	Mathematics	Miss.S.D.Shinde	I Sem	M.ScI	5
06	Foundation of analysis I	P-LAB-369			III Sem	M.Sc. II	4
90	Ring theory	P-RIT-365	Y T		III Sem	M.Sc. II	ω
90	Complex analysis	P-COA-167			l Sem	M.ScI	2
90	Ordinary differential equation	P-ODE-166			l Sem	M.ScI	, _
				Prof.			No.
Workload	Paper	Course Code	Subject	Name of Asst.	Semester	Class	Sr.

Course Teacher Miss. S.D.Shinde

Head)
Department of Mathematics,
Rajarshi Shahu Mahavidyalaya,
(Autonomous) Latur-413512



Rajarshi Shahu Mahavidyalaya PRINCIPAL. (Autonomous), Letor

3. Summary of Lesson Plan for M.Sc- II (semester III)

Name of Teacher: miss. S.D.Shinde

Cource Name:Ring Theory

Cource Code: P-RIT-365

Paper XI (theory)

A 9.7				Sr.
Division in Domains, Euclidean Domains, Principal Ideal Domains, Factorization Domains, Unique Factorization Domains, Unique Factorization Domains, Eisenstein's Criterion	ys undamental eld of	Definitions Maximal Ideals, Generators, Basic Properties of Ideals, Algebra of Ideals, Quotient Rings, Ideals in Quotient Rings, Local Rings.	Rings of Continuous Functions, Polynomial Rings, Power Series It Rings, Boolean Rings, Some Direct Products, Several posite Rings, Characteristic of a	Unit to be covered
16/09/2022 to 15/10/2022	17/08/2022 to 15/09/2022	09/07/2022 to 16/08/2022	20/06/2022 to 08/07/2022	Date
15	15	15	15	No. of Lectures
			NPTEL cource Registration	Academic activities to be organized
Assignment solve Homework examples		Home assignment	Homework examples	No.of Test/ Assignment with topic and date









4. Summary of Lesson Plan for M.Sc-II (semester III)

Name of Teacher: miss.S.D.Shinde Cource Name: foundation of analysis I

Cource Code:P-LAB-369

Lab Cource III

S. S.	Unit to be covered	Date	No. of Lectures	Academic activities to be organized	No.of Test/ Assignment with topic and date
	Section -I				
	Elementary set theory, finite,				
	countable and uncountable	11/07/2022			
	sets, Real number system as a to	to	30		
	complete ordered field,	25/08/2022			Home assignment
	Archimedean property,				
	supremum, infimum.				
	Sequences and series,				
	convergence, limsup, liminf.				
110	Continu		Tent		
10	Bolzano Weierstrass	ics.	Department of Mathemalics.	Cepanne	
	theorem, Heine Borel	313 AG	SISHED PART METERNANDA	STATE OF	
	theorem. Continuity, uniform	T G	Vitauous (suchantelly)	(Paranti	
		27/08/2022 to	30		Home assignment
	mean value theorem.	15/10/2022			
	Sequences and series of				
	functions, uniform				
	convergence.				

Course Teacher Miss. S.D.Shinde



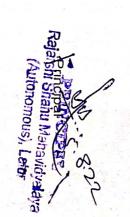


7 6 U M.Sc.-II M.Sc.-I M.Sc.-II Project Seminar Seminar To То Oct 2022 July 2022 Oct 2022 July 2022 Oct 2022 July 2022 20 20 20 6 Student per project week 2 student per week 2 student per 2- Project Presentation for each group

Course Teacher Miss. S.D.Shinde

Hgado Departmente/Nethernatics, Rajarshi Shahu Mahavidyalaya, (Autonomous) Latur-413512





Head, Date Managers, Date of Mahamaucs, Date of Mahamaucs, Asjanta Mahamaucs, Date of Autonomous)

1.Summary of Lesson Plan for M.Sc- I (semester I)

Name of Teacher: miss. S.D.Shinde Cource Name:Ordinary Diffrential Equations Cource Code:P-ODE-166 Paper III (theory)

	Re														
(4 (15) A.		•	•											N Z	Sr.
2000	duction of order, Non-homog	Unit III: Wronskian and linear independence,	coefficient operators	non-homogeneous equation, Algebra of constant	of order-n, A special method for solving the	real constants, The non-homogeneous equations	Problem for nth order equations, Equations with	homogeneous equations of order n, Initial Value	homogeneous equations of order two, The	A formula for the Wronskian, The non-	Unit II: Linear dependence and independence,	homogeneous equation.	Unit I: Initial value problems, Solutions of the	Unit to be covered	
м шта (гиотполоди х)	omogeneous 28/41/2022 Revisioned IstM to inaminate Constitution of the Constitution of	07/11/2022 To					30/09/2022			2		29/09/2022	_	Date	
WAY	200	15	1.				15					15		Lectures	No. of
£.		·		- X		: II II	4					-		activities to be organized	Academic
		Assignment solve					Home assignment					Homework examples		and date	No.of Test/ Assignment with topic

1

Non Second order equation with regular singular Equations with complex valued functions. Approximations to, and uniqueness of solutions. approximations, equations, Unit IV: Separation of variables, points, Exceptional cases, The Bessel equation with regular singular points: Euler equation, equations, Legendre equation, Linear Equations Convergence of the successive approximations The Bessel equation (Continued) local Method existence Lipchitz of of successive solutions condition, Exact 20/12/2022 29/11/2022 15 Homework examples

Course Teacher Miss. S.D.Shinde

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Department of Wathematics,
Department of Wathematics,
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2.Summary of Lesson Plan for M.Sc- I (semester I)

Unit to be covered	ered	Date	No. of Lectures	Academic activities to be organized	No.of Test/ Assignment with topic and date
Unit 1: Comp	Complex Field, Modulus, Argument	12/09/2022 To	16	-	Homework examples
and Conjugate	and Conjugate of complex numbers, Algebra of	30/09/2022			
complex numbers,	bers, Rectangular and Polar				
representation	representation of Complex numbers, Point sets				
in the plane,	ie, Sequences. Stereographic				
Projection, Lir	Projection, Linear Fractional, Transformation,				
Other Mappings,	gs, The Exponential Function,		=		
Mapping Properties	rties		7		
Unit II: The	Unit II: The Logarithmic Function, Complex	01/10/2022	15		Home assignment
Exponents, Po	Power series, Analytic functions,	To 10/11/2022			
Analyticity, H	Analyticity, Harmonic Functions, Sequences of				
Functions, U	Functions, Uniform Convergence, Maclaurin		-		
and Taylor Se	and Taylor Series, Operations on Power series.				
Taylor's Theo	Taylor's Theorem, Cauchy's Estimate, Zeros of	Charles and Ministra			Participant Communication of the Communication of t

Theorem, The Riemann mapping Theorem.	Convex Functions and Hadamard's three Circles	Principle, Rouche' Theorem, Schwartz Lemma.	Meromorphic functions, The Argument	Residue Theorem, Evaluation of Integrals,	Weierstrass Theorem, Residues, Cauchy's	 Unit -IV: Singularities, Classification of 01/12/2022 14	mapping Theorem, Goursat's theorem.	connectivity, Counting of Zeros, The Open	version of Cauchy's Theorem and simple	Formula, Morera's Theorem, The Homotopic	curve, Cauchy's Theorem, Cauchy's Integral	Integrals, Cauchy's Theorems. Index of a closed 30/11/2022	Unit -III: Curves, Parameterizations, Line 11/11/2022 15	Modulus Theorem.	
													15	1 ₂	
			7.			Homework examples							Assignment solve		

Course Teacher Miss. S.D.Shinde

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Depatrivation Mathematics,
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PRINCIPAL
Rajarshi Shahu Mahavidyalaya

(Autonomous), Latur





Rajarshi Shahu Mahavidyalaya (Autonomous), Latur Structured Work Plan for Teaching (Dec-2022 to Mar-2023)

:	_	No.	Sr.	
	M Sr II		Class	
	Miss. S.D.Shinde		Name of the Teacher	
	Mathematics		Subject	
Cource Code: P-FIT-461	Cource Title: Field Theory		Paper	

•	4		w		2		ъ		2	Sr
	VI – TINU		III – TINU		UNIT - II		UNIT - I		Unit	
	The Galois Group		Normal and separable extension		Field extension	-	Introduction	¥.		Unit to be covered
29/03/2023	1/03/2023 to	28/02/2023	26/01/2023to	25/01/2023	2/01/2023 to	31/12/2022	8/12/2022 to			Date
	15		15		15		15		Lectures	No. of
			Problem solving				Discussion	organized	activities to be	
unit III and IV	Assignment on			unit I and II	Assignment on			topic and date	Assignment with	No. of Test/











Rajarshi Shahu Mahavidyalaya (Autonomous), Latur Structured Work Plan for Teaching (Dec-2022 to Mar-2023)

	2			р		Zo.	Sr.
	II – TINU			I TINII - I		Unit	
	Function of Several variables		vieillailli ilitegral	Diomann into		Office to be covered	
29/03/2023	26/01/2022 to	25/01/2023	12/12/2022 to			Date	
C	20		30		Lectures	No. of	
	Solville	solving	Problem	organized	activities to be	Academic	
problems	propietits	P 20 1	Homework	topic and date	Assignment with	No. of Test/	



miss. s.D.shinde

Head

Head,
Head,
Department of Mathematics,
Rajarshi Shahu Mahavidyalaya,
(Autonomous) Latur-413512



Rajarshi Shahu Mahavidyalaya (Autonomous), Latur Structured Work Plan for Teaching

Sr. Class	Name of the Teacher	Subject	rape
20			
	MAINTAIN MAI	Mathematics	Cource Title: Topology
1. M.Sc.I	W139, 3:0:3111136		Cource Code: P-TOP-266

Unit Unit Unit Unit Unit Unit Unit Unit				Andrew Control of Cont	A CONTROL OF THE PROPERTY OF T		
Unit Unit Unit Unit Unit Unit Unit Unit	unit III and IV		75	08/04/2023	Normal Spaces	VI – TINU	4
Unit Unit Unit Unit Unit Onit Onit	Assignment on		7	100 1000			
Unit Unit Unit to be covered Unit to be covered UNIT - II Basis for Topology UNIT - III Connected and Compact Spaces Date No. of Academic Lectures activities to be organized 12/01/2023 to 12 Discussion 13/01/2023 25/02/2023 Problem solving	And the second community of the second secon			23/03/2023			U
Unit Unit to be covered Unit to be covered UNIT - I Basis for Topology Unit to be covered Date No. of Academic Lectures activities to be 12/01/2023 to 12 Discussion 25/02/2023 to 16		Problem solving	17	27/02/2023to	Connected and Compact Spaces		υ
Unit Unit to be covered Date No. of Academic Lectures activities to be organized 12/01/2023 to 12 Discussion 31/01/2023 to 16	II pue I jiun			25/02/2023			١
Unit to be covered Unit to be covered Unit to be covered Date Lectures activities to be organized 12/01/2023 to 12 Discussion 31/01/2023	Assignment on		16	01/02/2023 to	Basis for Topology	The second state of the second	J
Unit to be covered Date No. of Academic Lectures activities to be organized	And the second of the second o	e everegelektrister evertrig bedere viktomin stittvet i disken sende stittende eft.	And the second section of the second section of the second section of the second section secti	31/01/2023			•
Unit to be covered Date No. of Academic Lectures activities to be organized		Discussion	12	12/01/2023 to	Introduction		-
Unit to be covered Date No. of Academic Lectures activities to be	topic and date	The same of the sa	And the second s			Cilit	No.
Holt to be covered Date No. of Academic	Assignment with		Lectures				Sr.
	No. of Test/		No. of	Date	Unit to be covered	e de la companya de la composiçõe de la companya del companya de la companya de la companya del companya de la companya del la companya del la companya de l	





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1. M.Sc.	No.	Sr. Class	
.I Miss. S.D.Shinde		Name of the Teacher	
Mathematics		Subject	
Cource Code: P-PDE-267	Course Title: Partial Diffrential Equations	Paper	

unit III and IV		12	28/03/2023 to 08/04/2023	PDE in the case of n-Variable	ONI – IV	4
Assignment on			27/03/2023			(
	Problem solving	15	01/03/2023to	Dirichlet and Neumann problem	UNIT – III	J.
Unit I and II			28/02/2023			١
ASSIgnment on		15	06/02/2023 to	Second order PDE	- N	2
			04/02/2023			1
	Discussion	18	12/01/2023 to	Introduction	UNIT - I	_
topic and date					Onit	No.
Assignment with	activities to be	Lectures			- - -	Sr.
No. of Test/	Academic	No. of	Date	Unit to be covered		5







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