Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

Structured Work Plan for Teaching

First Term (July 2019 to Nov 2019)

1. Details of Classes to be taught

Name of Teacher: D.M.Ghuge

Class

: B.Sc.III (V- Semester) :Metric Spaces

							<u> </u>	T	2	Sr.
					1				No.	
							Mathematics			Subject
Unit III: Weierstrass Theorem, Sequen	Compactness & Connectedness.	spaces, Baire category Theore To	Unit II:Cauchy Sequence, Complete Met 29-07-2019	Sets, Interior point, Interior, Open Set.	Isolated Point Closed Set, Boundary	Metric, Neighborhood, Limit Point,	Mathematics Unit I: Metric Space, Introduction,			Unit and Chapter to be covered
	28-08-2019	То	29-07-2019		24-07-2019	То	21-06-2019			Date
	,	15				15			Lectures	No. of
		Seminar	Classroom		workshop			organized	activities to be	Academic
								topic and date	Assignment with	No. of Test /

		2
lemma, Continuity and Uniform Continu 30-09-2019	Lebesgue number, Lebesgue Cov To	Compactness, Totally
uity and Unifor	mber, Lebes	Totally
m Continu	gue Cov	bounded
30-09-2019	То	bounded 3-09-2019
	2	15
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3. Summary of Lesson Plan

Name of Teacher: D.M.Ghuge

Class

: M.Sc.I (I- Semester) Abstract algebra

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Finite Abelian Groups, Permutation	Unit-III: Fundamental Theorem of	Nilpotent groups.	Normal series, Solvable groups, 3	Automorphism, Conjugacy and G-sets, To	Unit-II: Isomorphism theorems, 0	quotient group	and relations, Normal subgroup and	and cosets, Cyclic groups, Generators	groups, Homomorphism, Subgroups To	Official Groups, semi groups and 0.			Unit and Chapter to be covered D:
			31-08-2019	0	01-08-2019		.,	31-07-2019	0	04-07-2019			Date
				15					15			Lectures	No. of
				Seminar	Classroom	workshop		courses	NPTEL online		be organized	activities to	Academic
											topic and date	Assignment with	No. of Test /

	applications.	group, Sylow Theorems	Groups, Invariants of a finite abelian	product, Finitely Generated Abelian	Unit-IV: Structure of groups, Direct	Alternating group An,	Groups, C
		v Theorem:	iants of a fi	tely Generat	cture of gro	oup An,	Cyclic dec
		s and its		ed Abelian	ups, Direct	¥	decomposition, 01-09-2019
		24-10-2019	01-10-2019		30-09-2019	То	01-09-2019
		Ţ	ר				15
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3.Summary of Lesson Plan Name of Teacher: D.M.Ghuge

Class

: M.Sc.II (Sem-III) Ring Theory

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							Mathematics		o. Subject
	Opposite Rings , Characteristic of a Ring	Direct Products Several Variables	, Boolean Rings ,Some Special Rings	Rings, Power Series Rings , Laurent Rings	Functions, Matrix Rings , Polynomial	Cincle recitilliology, Rings of Continuous	linit i. Torminal		Unit and Chapter to be covered
				20-07-2019	То	24-06-2019			Date
	i.			,	15			Lectures	No. of
And the second of the second o	Classroom	workshop		courses	NPTEL online		organized	activities to be	Academic
								with topic and date	No. of Test / Assignment

Unit-II: Definitions, Maximal Ideals, Generators, Basic Properties of Ideals , in Quotient Rings , Local Rings. Algebra of Ideals , Quotient Rings , Ideals | 16-08-2019 Unit-III: Definitions and Basic Properties, Fundamental Theorems Endomorphism Rings Field of fractions Prime fields Unit-IV: Division in Domains, Euclidean Criterion, Factorization Domains, Eisenstein"s Factorization Domains, Principal Ideal Domains, Domains, Unique 22-07-2019 14-09-2019 19-08-2019 То 16-09-2019 24-10-2019 15 15 15



Mr. D.M.Ghuge

Departmer#8PMathematics, Rajarshi Shahu Mahavidyalaya, (Autonomous) Latur-4/3512



Rajarshi Shahu Mahavidyalaya, Latur (Autonomous) PRINCIPAL PRINCIPAL

Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

Structured Work Plan for Teaching

Second Term(Dec 2019-april 2020)

1. Details of Classes to be taught

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Summary of Lesson Plan	IVI.SC.II	200	MI-SC.II	7.1 C - 11	B.3C.1	D C 2 1			Class	255
n Plan	~		<		=		ш		Semester	
			D.IVI.GIIUSE	ファイクト・・・・・	7				Name of Asstt. Prof.	
	ar.		Mathematics					2	Subject	
	PDE		Linear Algebra		Integral Calculus				Paper	

Name of Teacher: D.M.Ghuge

Class

: B.Sc.I (II- Semester) :Integral Calculus

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					4		س		NO.	Sr.
							Mathematics			Subject
sufficient condition of Inerrability,	Darboux's theorem , Necessary and	Riemann integrals, Riemann integrals ,	oscillatory sum, upper and lower	upper and lower Darboux's sums ,	closed interval ,Norm of partition,	Lectures] Introduction, Partition of a	Unit I: Riemann Integration [20			Unit and Chapter to be covered
					11-01-2020	То	09-12-2019			Date
		=			1	15			Lectures	No. of
		Seminar	Classroom		workshop	4		organized	activities to be	Academic
								topic and date	Assignment with	No. of Test /

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: M.Sc.I (I- Semester) Linear algebra

						Terry					1			-			No.
														Mathematics			subject
	Unit-III:Elementary Matrix Operations	ordinate matrix, Dual spaces.	Isomorphism, The change of Co-	transformations, Invertibility and	transformation, Composition of linear	representation of a linear	spaces, Ranges, The matrix	Unit-II:Linear Transformations, Null	Maximal Linear Independent Subsets.	independence, Bases and dimension,	equations, linear dependence and	combinations and system of linear	subspaces, Quotient Spaces, Linear	Unit-I:Introduction, Vector spaces,			Unit and Chapter to be covered
13-01-2020	1 2					11-02-2020	27-12-2019						To 26-12-2019	09-12-2019		97 E	Date
		1				* E	ע ק						15		E.	Lectures	No. of
				W. 2		14 26 2	Seminar	Classroom	workshop			courses	NPTEL online		organized	to be	Academic
																with topic and date	No. of Test / Assignment

Polynomial, Rational Canonical form.	Canonical form-II, The Minimal	Jordan Canonical form-I, Jordan	Bilinear forms, Quadratic forms.	the adjoint of a linear operator,	process and orthogonal complements,	Gram-Schmidt Orthogonalization	Unit-IV:Inner products and Norms, The	CayleyHamilton Theorem	Operators, Invariant Subspaces,	Diagonalizability, Triangulable	Eigen values and Eigen vectors,	equations-Computational Aspects,	Theoretical Aspects, System of linear	a matrix, System of linear equations-	and circlical and inces, the falls of
				22-02-2020	То	01-02-2020	- - 		-	-		- V .		31-01-2020	ō
	21			15	- 3		=								ļ
		30					,, 4	· ·							

Name of Teacher: D.M.Ghuge 3.Summary of Lesson Plan

Class

: M.Sc.I (Sem-II) P.D.E

	Juplent	Unit and Chapter to be covered	Date	No. of	Academic	No. of Test / Assignment
Ž.				Lectures	activities to be	with topic and date
_,	Mathamatica				organized	
	ואומנוופווומנוכא	Unit-1:Introduction, Linear Equation of 09-12-2019	09-12-2019			
		first order, Charpit"s Method, Jacobi"s	То	15	NPTEL online	
			01-01-2020		courses	
		- Glder F.D.E, General				
		solution of higher order PDE"s with			workshop	
		constant coefficients, Special			Classroom	
		Functions - Bessel"s function,			Seminar	
		Legendre"s function.				
		Unit-II:Introduction, Method of		15		
		separation of variables, Classification 02-01-2020	02-01-2020			
		of Second order PDE, One Dimensional	То			
			18-01-2020			

Teaching Staff

Mr. D.M.Ghuge

Problem for different regions, Unit-III:Dirichlet Harnack"s Theorem, Heat Conduction \mid 05-02-2020 Unit-IV:Classification of P.D.E. in the Problem, Duhamel"s Principle case of n-variables, Families of Equipotential Surfaces, Kelvin"s | 29-02-2020 Inversion Theorem. and Neumann

06-02-2020

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Boundary Value

Problems,

Cauchy"s Problem

15

20-01-2020





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