

Yashwantrao Chavan Maharashtra Open University, Nashik - 422 222

SUBJECT: Counselling Schedules for current year (2020-2021)

C.S. No.	Course Code And Name	Month	Date	Time	Theory/ Practical course	Торіс
1.	S24031:	August	02/08/2020	10.30 am - 11.30 am	Theory	Normed Linear Spaces
2.	FUNCTIONAL	August	09/08/2020		1 1	Banach Spaces
3.	ANALYSIS	August	16/08/2020	- //	. / /	Hahn-Banach Theorem
4.		August	23/08/2020		1.	Open Mapping Theorem
5.		September	30/08/2020		1	Hilbert Spaces
6.		September	06/09/2020			Bessel Inequalities
7.		September	13/09/2020			Fourier Expansions
8.		September	20/09/2020			Conjugate Space
9.		September	27/09/2020			The Adjoint Operators
10.		October	04/10/2020			Special Type of Operators
11.		October	11/10/2020			Finite Dimensional Spectral Theory
12.		October	18/10/2020			Contraction Mapping Principle
13.		October	25/10/2020			Backlog Clearance
14.		November	01/11/2020	and the sub-	and the same	Conduction of CA
15.		November	08/11/2020			Guidance for End Exam
16.	S24032:	August	02/08/2020	11.30am- 12.30pm	Theory	Graph Theory: Introduction, Graphs as Models

V57: M.SC. (MATHEMATICS) {2015 PATTERN}

17.	ADVANCED DISCRETE	August	09/08/2020			Graph Theory: The Matrix Representation of Graphs,
17.	MATHEMATICS	August	07/00/2020			Fusion,
						Trees: Introduction, Trees and Connectivity,
18.		August	16/08/2020			Connector Problems,
		0				Kruskals Algorithm, Prims Algorithm
-		1 1				Lattice Theory: Introduction, Theorem, Product
10		August	22/08/2020	010		of Two Posets-Theorem,
19.		August	23/08/2020	9101		Lattices, Distributivity and Modularity,
		6 F				Lemma, Ideals, Dual Ideals
20.		Santamhan	30/08/2020	XX		Lattice Theory: Lattices, Distributivity and
20.		September	50/08/2020			Modularity, Lemma, Ideals, Dual Ideals
			8			Boolean Algebra: Introduction, Theorem,
21.		September	06/09/2020			Simplification of Circuits,
					1. 6	Designing of Switching Circuits.
22.		September	13/09/2020		1	Recurrence Relations: Introduction
23.		September	20/09/2020		1 - 1	Recurrence Relations: Linear Difference
		-		- 17	1 1	Equation with Constant Coefficients
24.		September	27/09/2020		1	Generating Functions
25.		October	04/10/2020		1	Combinotorics
26.		October	11/10/2020			Automata
27.		October	18/10/2020			Languages
28.		October	25/10/2020			Backlog Clearance
29.		November	01/11/2020		1	Conduction of CA
30.		November	08/11/2020			Guidance for End Exam
	S24033: NUMBER			12.30pm - 1.30pm	Theory	Divisibility: Introduction, Division Algorithm,
31.	THEORY	August	02/08/2020			Uniqueness of q and r,
51.		August	02/00/2020		-	To establish the Second Assertion of the
				And the Assessment of	and and	Theorem.
32.		August	09/08/2020		1.1.5	Prime Numbers and Their Distribution:
		, i i i i i i i i i i i i i i i i i i i				Introduction, Prime Numbers
33.		August	16/08/2020			Prime Numbers and Their Distribution:Prime

34. 35. 36. 37. 38.		August September September	23/08/2020 30/08/2020 06/09/2020 13/09/2020			Conjecture Congruence Relation: Introduction, Definition, Theorem, Corollary Fermat's-Theorem and Applications: Introduction, Theorem Fermat's-Theorem and Applications: Corollary,
35. 36. 37. 38.		September September	30/08/2020 06/09/2020			Theorem, Corollary Fermat's-Theorem and Applications: Introduction, Theorem
35. 36. 37. 38.		September September	30/08/2020 06/09/2020			Fermat's-Theorem and Applications: Introduction, Theorem
36. 37. 38.		September September	06/09/2020			Introduction, Theorem
36. 37. 38.		September September	06/09/2020	60		
37. 38.		September	0	-		Fermat's-Theorem and Applications: Corollary,
37. 38.		September	0	010		
38.		-	13/09/2020			Alternative Proof
38.		-	15/07/2020	YVYV		Number Theoretic Functions: Introduction,
						Lemma, Theorem
		September	20/09/2020			Number Theoretic Functions: Mobius Inversion
•		Bepteniber	20/07/2020			Formula
39.		September	27/09/2020			Euler's Function: Introduction, Lemma, Gauss
		September	2110712020			Theorem
			1.000			Primitive Roots: Introduction, Composite
40.		October	04/10/2020			Number having Primitives, Lemma,
			1			Theory of Indices
41.		October	11/10/2020	- ///		Primitive Roots: Lemma, Theory of Indices
42.		October	18/10/2020			Quadratic Reciprocity: Introduction,
						Definition, Theorem, Corollary
43.		October	25/10/2020			Backlog Clearance
44.		November	01/11/2020			Conduction of CA
45.		November	08/11/2020			Guidance for End Exam
46.	S24034:	August	02/08/2020	2.30 pm – 3.30pm	Theory	Integral Equation
	INTEGRAL	August	09/08/2020			Conversion of ODE to Integral Equation
48. E	EQUATIONS	August	16/08/2020			Fredholm Integral Equations with Separable Kernel
49.		August	23/08/2020			Eigen Values and Eigen Functions
50.		September	30/08/2020			Method of Successive Approximation
51.		September	06/09/2020			Volterra Integral Equation
52.		September	13/09/2020			Symmetric Kernels: Preliminaries, Symmetric

						Kernel and Properties, Orthonormal Set,
53.		September	20/09/2020			Fundamental Properties of Eigen values and
55.		September	20/09/2020			Eigen Function for Symmetric Kernel,
						Hibert Theorem and its Consequences: Hibert-
54.		September	27/09/2020			Schmidt Theorem, Application of Hilbert-
54.		September	2110)/2020			Schmidt Theorem, Solution of symmetric
		1				Integral Equation by Hilbert- Schmidt Theorem
			0	00		Integral Transform Method: Laplace
55.		October	04/10/2020	YUY		Transform, Solution of Volterra Integral
			V			Equation with Convolution Type Kernel.
						Solution of Integrals- Differential by Laplace
			/			Transform Method, Solution of Able Integral
56.		October	11/10/2020			Equation by Laplace Transform Method,
		1 N				Fourier Transform, Solution by Fourier
						Transform Method
					7 /	Greens Function: Introduction, Motivation,
					1 1	Definition of Greens Function, Existence and
57.		October	18/10/2020	- 17	1 1	Uniqueness Theorem, Construction of Greens
					1.	Function, Solution or Conversion of BVP to
						Integral Equation by using Greens Function.
58.		October	25/10/2020			Backlog Clearance
59.		November	01/11/2020			Conduction of CA
60.		November	08/11/2020			Guidance for End Exam
61.	S24035:	August	02/08/2020	3.30pm- 4.30pm	Theory	Convex Sets and Functions: Introduction,
01.	OPERATION	Tugust	02/00/2020			Convex Sets and Their Properties,
	RESEARCH-I					Hyperplanes and Half Spaces, Supporting and
62.		August	09/08/2020			Separating Hyperplanes, Convex
					-	Functions, Local and Global Extreme.
63.	4	August	16/08/2020	Second States in succession, in	and the second	Linear Programming
					115	D-Generacy, Duality and Revised Simplex
64.		August	23/08/2020			Method: Introduction, Duality, Standard form
		1 4 4				of the Primal

65.		September	30/08/2020			Relationship between two problems (Primal and dual), Revised Simplex Method, To Obtain Inverse of
						Initial Basis Matrix an Initial BFS
66.		September	06/09/2020			Integer Programming: Introduction, Gomory's All Integer Cutting Plane Method, Examples, Geometrical Interpretation of Gomory's Cutting Plane Method,
67.		September	13/09/2020	919	$\Lambda \cdot \Lambda$	Branch and Bound Method, Steps of Branch and Bound Algorithm.
68.		September	20/09/2020	XX		Dynamic Programming
69.		September	27/09/2020			Applications To Linear Programming
70.		October	04/10/2020			Non-Liner Programming: Introduction, Unconstrained External Problem, Theorem, Lagrange's Method of Undetermined Multipliers,
71.		October	11/10/2020			Necessary and Sufficient Conditions for Optimization of an Objective Function, Kuhn- Tucker's Conditions
72.		October	18/10/2020			Wolfe's and Beale's Methods
73.		October	25/10/2020			Backlog Clearance
74.		November	01/11/2020			Conduction of CA
75.		November	08/11/2020			Guidance for End Exam
76.	S24041: MEASURE	February	07/02/2021	10.30am- 11.30am	Theory	Measure Space, Measurable Functions
77.	AND INTEGRATION	February	14/02/2021			Integration and General Convergence Theorems: Introduction, Theorem: Fatou's Lemma
78.] .	February	21/02/2021		1	Theorem: Monotone Convergence Theorem, Theorem: Lebesgue ConvergenceTheorem.
79.		February	28/02/2021	TT ST	T T S	Signed Measure
80.		March	07/03/2021			The Radom- Nikodym Theorem
81.		March	14/03/2021			Uniqueness, Lebesgue Decomposition

						Theorem
82.		March	21/03/2021			Product Measures: Introduction, Product
02.		Watch	21/03/2021			Measure, Lemma, Proposition
83.		March	28/03/2021			Integration on Product Spaces, Fubini's
						Theorem, Tonelli's Theorem
84.		March	04/04/2021			Outer Measure
85.		April	11/04/2021			Inner Measure
86.		April	18/04/2021	0 0 1	111	Lp-Spaces: Introduction, Definition, Holder Inequality
87.	-	April	25/04/2021	V V	A V	Minkowski Inequality, Proposition, Lemma,
	_	-				Riesz Representation Theorem.
88.	_	April	02/05/2021			Backlog Clearance
89.		May	09/05/2021			Conduction of CA
90.		May	16/05/2021			Guidance for End Exam
91.	S24042: PARTIAL DIFFERENTIAL EQUATIONS	February	07/02/2021	11.30am - 12.30pm	Theory	First Order Partial Differential Equations: Introduction, Curves and Surfaces, Parametric Equations of a Surface, A Curve Through Surfaces, Direction Cosines of a Line Passing Through two Points, The Direction Cosines if the Tangent to the Curve
92.		February	14/02/2021			Direction Ration of the Normal to the Surface, Equation of a Line when two Surfaces are Given, Partial Differential Equation, Classification of First Order Partial Differential Equations, Classification of Integrals
93.		February	21/02/2021			Liner Equation of the First Order
94.		February	28/02/2021			Compatible Systems of First Order Partial
95.		March	07/03/2021			The Cauchy Problem: Introduction, Integral Surface Through a Given Curve for a Linear Partial Differential Equations
96.	-	March	14/03/2021	ા વ	114	Integral Surface Through a Given Curve for a Non-Linear Partial Differential Equations,

						Integral Surface Through a Given Curve by a
						Method of Characteristics.
						Second Order Partial Differential Equations:
						Introduction, Solution of the Equation, Origin
97.		March	21/03/2021			of the Partial Differential Equation, One
97.		Watch	21/03/2021			Dimensional Wave Equation, Heat Conduction
		1				Equation, Classification of Second Order
				000		Partial Differential Equation,
			Y	9101		Physical Meaning of the Solution of the Wave
		1				Equation, Vibration of a Semi-Infinite
				XX		String (one end point is fixed), Vibration of a
98.		March	28/03/2021			String of Finite Length, Vibration of a String of
						Finite Length (Method of Separation of
		1 1				Variables), Uniqueness of Solution of Wave
					1.1.	Equation.
99.		March	04/04/2021		11	Heat Conduction Problem
					1. 6	Laplace Equation: Introduction, Boundary
			1 A		1	Value Problems, Interior Dirichlet Problem for
00.		April	11/04/2021		1	a Circle, The Dirichlet Exterior Problem for a
					0	Circle, Interior Neumann Problem for a Circle,
						Exterior Neumann Problem for a Circle
					/ /	Interior Dirichlet Problem for a Rectangle, The
						Neumann Problem for a Rectangle, The
01.		April	18/04/2021		100	Dirichlet Problem for the Upper Half Plane,
						The Neumann Problem for the Upper Half
						Plane
02		A	25/04/2021			Riemann's Method of Solution of Linear
02.		April	25/04/2021		-	Hyperbolic Equation
03.		April	02/05/2021			Backlog Clearance
04.		May	09/05/2021	TT CT	T T T	Conduction of CA
05.		May	16/05/2021		2 2	Guidance for End Exam
06.	S24043:	February	07/02/2021	12.30pm – 1.30pm	Theory	Some Preliminaries and Tensor

07.	RIEMANNIAN GEOMETRY-I	February	14/02/2021	N-Ply Orthogonal System of Hyper surfaces and Orthogonal Ennuple: Introduction, Length of a Curve and Magnitude of a Vector, Angle Between two Hyper surface, Co-ordinate Hyper surface
08.		February	21/02/2021	Orthogonality Consition, N-Ply Orthogonal System of Hyper surface, Congruence, Orthogonal Ennuple, Principle Directions for a Symmetric Covariant Tensor of Second Order
09.		February	28/02/2021	Euclidean Space of M-Dimension
10.		March	07/03/2021	Christoffel's Three-Index Symbols and Covariant Differentiation: Introduction, Christoffel Symbols, Covariant Derivative of a Tensor Field
11.		March	14/03/2021	Intrinsic Derivative (Derived Vector), Tender of a Vector
12.		March	21/03/2021	Divergence and Curl of a Vector and Laplacian Operator
13.		March	28/03/2021	Curvature of a curve, Geodesics, Parallelism of Vectors: Introduction, First Curvature (Geoderic Curvature) Vector,
14.		March	04/04/2021	First Curvature (Geoderic Curvature) of the Curve, Principle Normal, Geodesics, Differential Equations of Geodesic on a Vn.
15.		April	11/04/2021	Geodesic Co-ordinate System, Riemannian Co- ordinate
16.		April	18/04/2021	Parallelism of a Vector: Introduction, Parallel Displacement and Riemannian Tensor, Parallelism f a Vector of Variable Magnitude
17.		April	25/04/2021	Subspace of a Riemannian Manifold,Parallelism in Subspace

18.		April	02/05/2021			Backlog Clearance
19.		May	09/05/2021			Conduction of CA
20.		May	16/05/2021			Guidance for End Exam
21.	S24044: RIEMANNIAN GEOMETRY-II	February	07/02/2021	2.30pm- 3.30pm	Theory	Ricci's Coefficients of Rotation: Introduction, Ricci's Coefficients of Rotation, Curvature of a Congruence, Geodesic Congruence
22. 23.		February	14/02/2021			Normal Congruence, Curl of a Congruence
23.		February	21/02/2021	00		Canonical Congruences
24.		February	28/02/2021	X X Y		Riemann Curvature Tensor: Introduction, Riemann Curvature Tensor, Second Order Covariant Derivative of a Tensor of Rank two,
25.		March	07/03/2021			Properties of Riemann Curvature Tensor, Ricci Tensor, Bianchi Identities, Contracted Bianchi Identities
26.		March	14/03/2021			Curvature of a Riemannian Space: Introduction, Riemannian Co-ordinates, Relation between Christoffel Symbols of Vn and Vm in which Vn is Immersed, Riemannian Curvature of a Space at a Point
27.		March	21/03/2021			Expression Riemannian Curvature, Flat Space, Mean Curvature of a Space for a Given Direction, Riccis's Principle Directions
28.	_	March	28/03/2021			Einstein Space
29.		March	04/04/2021		1 9	Hyper surfaces
30.		April	11/04/2021			Curvature of a Curve in A Hyper surface and Normal Curvature of a Hyper surface: Introduction, Meunier's Theorem, Generalization of
50.		April	नग	ता घ	गर	Dupin'sTheorem,SomeDefinitions, Conjugate Directions and Asymptotic Directions in a Hyper surface
31.		April	18/04/2021			Euler's Formula, Umbilical Points, Totally

						Geodesic Hyper surface, Tensor Derivative of the Unit Normal
	-		1 1			Gauss and Codazzi Equations for a Hyper
32.		April	25/04/2021			surface
33.		April	02/05/2021			Backlog Clearance
34.		May	09/05/2021			Conduction of CA
35.		May	16/05/2021			Guidance for End Exam
	S24045:	1.1.05		3.30pm- 4.30pm	Theory	Replacement Problems: Introduction, Types of
	OPERATION		LY I			Replacement Situation
	RESEARCH-II	6 1				To find the best Replacement age of a Machine
				X X		when
36.		February	07/02/2021			(i) Its Maintenance Cost is given by a function
						Increasing with time,
		1 1				(ii) Its Scrap Value is Constant and
					1. 1.	(iii) The Money Value is not increased.
					1	Solution
37.		February	14/02/2021		1 - A	To find the Interval of Optimum Replacement
38.		February	21/02/2021	- 17	1 1	Problems in Mortality
39.		February	28/02/2021		1	Inventory Control: Introduction, Definitions
		rebluary				and Related Concepts, Model-I, Model-II
40.		March	07/03/2021			Model-III, Model-IV, Model-V, Model-VI
41.		March	14/03/2021			Probabilistic Models
						Queing Theory-I: Introduction, Basic
42.		March	21/03/2021		1 1	Definitions and Notations, Classification of
						Queuing Models
						Model I: (M/M/1): (∞/FCFS) (Birth and Death
43.		March	28/03/2021			Model), Model II: General Erland Queuing
					-	Model
44.		March	04/04/2021	And and a support of the local data		Queing Theory-II
					115	Information Theory: Information, Description
45.		April	11/04/2021			of a Communication System, A Quantitative
		1	1.41	3.3		Measure of Information, A Binary Unit of

				Information
		1		Measure of Uncertainty or Entropy, Properties
46.	April	18/04/2021		of Average Measure of Uncertainty or Entropy,
				Important Relations for Various Entropies
47.	April	25/04/2021		Pert and CRM
48.	April	02/05/2021		Backlog Clearance
49.	May	09/05/2021		Conduction of CA
50.	May	16/05/2021	000	Guidance for End Exam



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