

# SHIVAJI UNIVERSITY, KOLHAPUR M.Phil. / Pre.Ph.D. Examination to held in Jun. 2019.

### Circular No. 306 Exam

### THE FINAL PROGRAMME

Final Programme of the M.Phil. / Pre.Ph.D. Examination to held in Jun. 2019.

- 1. Students should see their Seat No. and Name in the Name list and mistakes if any should be communicated to this office immediately. All candidates are requested to confirm their Examination Seat No. as well as place of examination on the Notice Board of the University /College mentioned below at least Two days before the date of Examination. The candidate should write correct Seat No. on each answer book. If candidate writes, wrong, Seat No. on answer book the performance of such subject will not be considered.
- **2.** Candidates are requested to be present at their respective places of Examination **FIFTEEN MINUTES** before the time of starting of the first paper and **TEN MINUTES** before the time of starting of each subsequent paper. Candidates are forbidden to take any book or paper into the Examination Hall.
- 3. The Examination Centre: 1) Humanities Building, Shivaji University, Kolhapur,
  2) Concern University Department
  3)Department of Technology Shivaji University, Kolhapur.
- **4**. The written examination will be conducted in the following order

## M.Phil. / Pre.Ph.D. New Syllabus

	M. Phil. / Pre. Ph. D. New Syllabus Paper									
	Faculty Of Humanities									
	Time – 11.00a.m to 2.00p.m									
SR NO	SUBJECT	PAPER NO	PAPER NAME	DAY&DATE	CODE NO					
	1) Paper I-Re	search Mo	ethodology(Theory) (Marathi)	Tuesday 25/06/2019	65146					
		2)	साहित्य आणि इतर सामाजिक भाास्त्रे	Thursday 27/06/2019	65147					
	Marathi(Revised)	3A)	मध्ययुगीन साहित्य : प्रेरणा आणि स्वरूप	Saturday	65148					
		3 B)	एकोणिसावे भातकःसमाज,संस्कृती आणि साहीत्य :प्रेरणा आणि स्तित्यंतरे	29/06/2019	65149					
		3 C)	आधुनिक साहित्य : प्रेरणा आणि स्वरूप		65150					
	1) Paper I-Res	earch Me	ethodology (Theory) (Marathi)	Tuesday 25/06/2019	54420					
		2)	साहित्याभ्यासातील आधुनिक प्रवाह	Thursday 27/06/2019	54864					
1	Marathi	3 A)	प्राचीन मराठी साहित्य : प्रेरणा व स्वरूप	Saturday	54421					
	Iviaianii	3 B)	स्वातंत्र्यपूर्व मराठी साहित्य : प्रेरणा व स्वरूप	29/06/2019	54422					
		3 C)	स्वातंत्र्यानंतरचे मराठी साहित्य : प्रेरणा व स्वरूप		54423					

	•	-	r I-Research Methodology lish, Sanskrit and Urdu)	Tuesday 25/06/2019	54420
	,	2	हिंदी साहित्य अध्ययन के अधुनातन आयाम	Thursday 27/06/2019	54424
		3 A)	प्राचीन एवं मध्ययुगीन काव्य		54425
2		3 B)	आधुनिक हिंदी कविता	Saturday	54426
	Hindi	3 C)	राजभाषा हिंदी	29/06/2019	54427
		3 D)	उपन्यास विधा		54428
		3 E)	कहानी विधा		54429
		3 F)	नाटक विधा		54430
		3 G)	कथेतर साहित्य		54431
		2	Recent Trends in English Studies	Thursday 27/06/2019	54432
3		3 A)	Modern British Literature (1900-2000)	C. I I.	54433
)	English	3 B)	Modern American Literature (1900-2000)	Saturday 29/06/2019	54434
	_	3 C)	Applied Linguistics and Second Language Teaching	23,00,2013	54435
		3 D)	New Literatures in English		54436
		2	संस्कृत अध्ययनातील आधुनिक प्रवाह	Thursday 27/06/2019	54437
4	Sanskrit	3 A)	संस्कृत साहित्याचा इतिहास (वैदिक काल)		54438
4		3 B)	संस्कृत साहित्याचा इतिहास (अभिजात वाङ्मय)	Saturday 29/06/2019	54439
		3 C)	अर्वाचीन संस्कृत साहित्य (इ. स.17 व्या शतकापासून पुढे)	29/06/2019	54440
		3 D)	संस्कृतातील ज्ञानविज्ञान व तंत्रशास्त्र		54441
		2	Recent Trends in Urdu - Urdu ke Asari Rujhanat	Thursday 27/06/2019	54442
5	Urdu	3 A)	URDU FICTION.		54443
)		3 B)	URDU GHAIR AFSANAVI ADAB.	Saturday 29/06/2019	54444
		3 C)	JADEED URDU SHAIERY.	23/00/2013	54445
	Music	1	संशोधन पध्दती (Research Methdology)	Tuesday 25/06/2019	54446
6	(Faculty of Inter-	2	संगीत व इतर विद्याशाखा परस्परसंबंध (Interdisciplinary Subjects)	Thursday 27/06/2019	54447
	Disciplinary Studies )	3	बुजुर्ग कलाकारांचा अभ्यास — गायक किंवा वादक	Saturday 29/06/2019	54448
	Dua mantina	1	संशोधन पध्दती (Research Methdology)	Tuesday 25/06/2019	54449
7	Dramatics (Faculty of	2	नाटयशास्त्र वा इतर विधाशाखा परस्पर संबंध	Thursday 27/06/2019	54450
	Inter-	3 A)	दिग्दर्शन		61738
	Disciplinary Studies )	3 B)		Saturday 29/06/2019	61739
			<sup>:</sup> अभिनय		

# M. Phil. / Pre. Ph. D. New Syllabus Paper Faculty of Humanities

	Time – 11.00a.m to 2.00p.m							
SR.		PAPER			CODE			
NO.	SUBJECT	NO.	PAPER NAME	DATE	NO.			
		1	Research Methodology Quantitative Techniques, and Computer Application. Compulsory Paper - COMMON SYLLABUS FOR Faculty of Humanities, Faculty of commerce and management and Faculty of Inter-Disciplinary Studies (ECONOMICS, SOCIOLOGY, POLITICAL SCIENCE, JOURNALISM, MASS COMMUNICATION), COMMERCE AND MANAGEMENT, EDUCATION, LAW, AND WOMEN STUDIES	Tuesday 25/06/2019	54454			
		2	ADVANCED THEORIES IN ECONOMICS	Thursday 27/06/2019	54455			
		3 A)	ECONOMICS OF AGRICULTURE AND CO- OPERATION		54456			
		3 B)	DEMOGRAPHY AND GENDER STUDIES	54457	54457			
9	Economics	3 C)	ENVIRONMENTAL AND RESOURCE ECONOMICS	Saturday	54458			
		3 D)	ECONOMICS OF INDUSTRY & LABOUR	29/06/2019	54459			
		3 E)	INTERNATIONAL TRADE AND FINANCE		54460			
		3 F)	ECONOMICS OF MONEY, BANKING AND FINANCIAL INSTITUTIONS		54461			
		3 G)	PUBLIC ECONOMICS		54462			
		3 H)	REGIONAL ECONOMICS		54463			
10	I l'ala	2	Recent Trends in History	Thursday 27/06/2019	54464			
10	History	3 A)	Ancient Indian History Up to 1000 A.D.		54465			
		3 B)	Medieval India 1000 A.D1757A.D.	Saturday	54466			
		3 C)	Maratha History	29/06/2019	54467			
		3 D)	Modern India		54468			
11	Dolitical	2	Recent Trends in Political Science	Thursday 27/06/2019	54469			
	Political	3 A	Studies in Indian Politics	Saturday	54470			
	Science	3 B	Advances in Public Administration	29/06/2019	54471			
		3 C	Modern Political Analysis		54472			
		2	RECENT TRENDS IN SOCIOLOGICAL THEORY	Thursday 27/06/2019	54473			
		3 A)	INDUSTRY AND SOCIETY		54474			
12	Co oi al a en c	3 B)	INDIAN SOCIETY : POVERTY AND SOCIAL INEQUALITIES		54475			
	Sociology	3 C)	ENVIRONMENTAL SOCIOLOGY		54476			
		3 D)	SOCIOLOGY OF MASS COMMUNICATION AND INFORMATION SOCIETY	Saturday 29/06/2019	54477			
		3 E)	SOCIAL DEMOGRAPHY		54478			
		3 F)	SOCIOLOGY OF MIGRATION		54479			
		3 G)	SOCIAL MOVEMENT IN INDIA		54480			
		3 H)	GENDER AND SOCIETY		54481			

				Thursday	
		2	Recent Trends in Psychology	27/06/2019	54482
13	Psychology	3 A	COUNSELLING PSYCHOLOGY	27/00/2013	54483
	, 0,	3 B	CLINICAL PSYCHOLOGY	Saturday	54484
		3 C	INDUSTRIAL PSYCHOLOGY	29/06/2019	54485
		36	PRINCIPLES AND PRACTICE OF SOCIAL	Thursday	
		2	WORK	27/06/2019	54486
	Social Work		HUMAN RESOURCE MANAGEMENT AND	2.70072020	
14	(Faculty of Inter-	3 A)	LABOUR WELFARE		54487
	_ ·	3 B)	COMMUNITY DEVELOPMENT	Saturday	54488
	Disciplinary	3 C)	MEDICAL AND PSYCHIATRIC SOCIAL WORK	29/06/2019	54489
	Studies )	3 D)	FAMILY AND CHILD WELFARE		54490
		2.5	CRIMINOLOGY AND CORRECTIONAL		E 4 4 0 1
		3 E)	ADMINISTRATION		54491
		2	Bacant Trands in Philosophy	Thursday	54492
15	Dhileseaba	2	Recent Trends in Philosophy	27/06/2019	34492
	Philosophy	3 A)	Modern Topics in Philosophy	Saturday	54493
		3 B)	Advanced Development in Philosophy	29/06/2019	54494
		3 C)	Anasakti Yoga : By M. K. Gandhi		54495
	Library	2	RECENT TRENDS IN LIBRARY AND	Thursday	54496
	&		INFORMATION SCIENCE	27/06/2019	3 7730
16		3 A)	MANAGEMENT OF ACADAMEC LIBRARY		54497
10	Information	37.,	SYSTEM	Saturday	31137
	Science	3 B)	MANAGEMENT OF SPECIAL LIBRARY	29/06/2019	54498
	(Faculty of Inter-	- /	SYSTEM.	_	
	•				
	Disciplinary	3 C)	AAANA CENAENT OF BURNE UBBARY		54499
	Studies )		MANAGEMENT OF PUBLIC LIBRARY SYSTEM		
	N.A		31316101	Thursday	
	Mass	2	Mass Communication Theory	27/06/2019	54500
17	Communication			27/00/2013	
	(Faculty of Inter-				
	Disciplinary	3	Advances in Media Studies	Saturday	54501
	Studies )			29/06/2019	
		2 1	RECENT TRENDS IN COMMERCE &	Thursday	54502
		2 A)	MANAGEMENT	Thursday 27/06/2019	34302
		2 B)	Recent Trends in Information Technology	27/00/2019	54503
		3 A)	Marketing Management		54504
	Commerce	3 B)	Financial Management		54505
		3 C)	Human Resource Management		54506
	&	3 D)	Cooperative Management	_	54507
	Management	3 E)	Industrial Structure of India	_	54508
10	(Faculty of	3 F)	Indian Economic Environment	_	54509
18	Commerce &	3 G)	Applied Statistics and Quantitative		54510
	Management)	-	Techniques	_	
	ivianagement	3 H)	Taxation of India	Saturday	54511
		3 I)	Management Accounting	29/06/2019	54512
		3 J)	Advanced Cost Accountancy	-	54513
		3 K)	Business Administration	-	54514
		3 L)	Organization of Trade and Logistic		54515
			Management International Rusiness	-	EAF1C
		3 M)	International Business	-	54516
		3 N) 3 O)	System Management	-	54517 54518
			Strategic Management Computer Application	-	61749
		3 P)	Computer Application		01/49

19 124	2	Recent Trends in Law	Thursday 27/06/2019	54519	
	Law	3	The General Laws	Saturday 29/06/2019	71106

	M. Phil. / Pre. Ph. D. New Syllabus Paper						
	Fac	ulty of	Inter- Disciplinary Studies				
		Tin	ne – 11.00a.m to 2.00p.m				
		2	RECENT TRENDS AND ADVANCES IN EDUCATION	Thursday 27/06/2019	54520		
		3 A)	Special Field in Education: Educational Management		54521		
20		3 B)	Special Field in Education: Educational Psychology		54522		
	Education	3 C)	Special Field in Education : Environmental Education	Saturday 29/06/2019	54523		
		3 D)	Special Field in Education: Information Technology and Educational Technology		54524		
		3 E)	Special Fields in Education : Teacher Education		54525		
		1	Research In Physical Education & Sports	Tuesday 25/06/2019	54526		
		2	Recent Trends in Physical Education and Sports	Thursday 27/06/2019	54527		
21	Physical	3 A)	Sports Medicine		54528		
	Education	3 B)	Sports Physiology		54529		
	Education	3 C)	Psychology of Sports		54530		
		3 D)	Yoga and Sports Science	Saturday	54531		
		3 E)	Scientific Approach to Techniques in Advance coaching and Training	29/06/2019	54532		
		3 F)	Tests, Measurement and Evaluation in Physical Education and sports sciences		54533		
	Journalism	1	Research Methodology	Tuesday 25/06/2019	58380		
22	&	2	Advances in Communication and Mass Communication Theories	Thursday 27/06/2019	58381		
	Communication	3 A)	Development Communication		58382		
		3 B)	Print Media		58383		
	Science	3 C)	Electronic Media (Radio & Television)	Saturday	58384		
		3 D)	Film Studies	29/06/2019	58385		
		3 E)	Public relations and advertising		58386		
		3 F)	ICT (Information & Communication Technology) and New Media		58387		

	M. Phil. / Pre. Ph. D. New Syllabus Paper							
			ty of Science and Technology					
	T		Time – 11.00a.m to 2.00p.m	T	1			
SR. NO.	SUBJECT	PAPER NO.	PAPER NAME	DATE	CODE NO.			
		1	Research Methodology in Agrochemicals and Pest Management	Tuesday 25/06/2019	54534			
23	AGPM	2	Recent Trends in Agrochemicals and Pest Management	Thursday 27/06/2019	54535			
		3 A)	Recent advances in Agro chemistry.	Saturday	54536			
		3 B)	Recent Advances in Pest Management	29/06/2019	54537			
		3 C)	Recent Advances in plant protection.	, ,	54538			
		1	Research Methodology in Botany	Tuesday 25/06/2019	54539			
		2	Recent Trends in Botany	Thursday 27/06/2019	54540			
		3 A)	Recent Advances in Plant Physiology		54541			
24	Botany	3 B)	Recent Advances in Mycology and Plant Pathology		54542			
_ '	Dotaily	3 C)	A Recent Advances in plant Protection		54543			
		3 D)	TAXONOMY, BIODIVERSITY AND CONSERVATION	Saturday 29/06/2019	54544			
		3 E)	Recent Advance in Plant Ecology		54545			
		3 F)	RECENT ADVANCES IN MARINE BOTANY		54546			
		3 G)	Recent Trends in Biotechnology		54547			
		3 H)	Recent Advances in Bryology and Pteridology		58352			
		3 I)	Cytogenetiecs and Plant Breeding		65198			
		3J)	Recent Advances in Phycology		65758			
		1	Research methodology and scientific report writing	Tuesday 25/06/2019	54658			
25	Food- Science	2	Recent trends in food processing and preservation	Thursday 27/06/2019	54659			
		3 A)	Advances in Food Science and Nutrition	Saturday	54660			
		3 B)	Advances in Food Bio-technology	29/06/2019	54661			
		1	Research Methodology and Computer Applications in Chemistry	Tuesday 25/06/2019	54548			
26	Chemistry	2	Recent Trends in Chemistry	Thursday 27/06/2019	54549			
		3 A)	Selected Topics in Organic Chemistry	Saturday	54550			
		3 B)	Selected Topics in Inorganic Chemistry	29/06/2019	54551			
		3 C)	Selected Topics in Physical Chemistry	29/00/2019	54552			
		1	Research methodology	Tuesday 25/06/2019	54553			
	Geology	2	Recent trends in Geology	Thursday 27/06/2019	54554			
27		3 A)	Prospecting and Utilization of Groundwater Resources	Saturday	54555			
		3 B)	Environmental Pollution and Management	29/06/2019	54556			
		3 C)	Sedimentary Environments	23/00/2019	54557			
		3 D)	Deccan basalts		54558			

				Tuesday	
28		1	Research Methodology	25/06/2019	71655
		2.4\		Thursday	74656
		2 A)	Recent Trends in Mathematics	27/06/2019	71656
		3 A)	Theory of Fractional Dynamic Systems		71657
		3 B)	Differential and Integral Inequalities		71658
		3 C)	Delay Differential Equations		71659
		3 D)	Iterative Methods		71660
		3 E)	Atomistic and Multiplicative Lattices		71661
		3 F)	Generalized Integral Transformations	Saturday	71662
		3 G)	Trellis Theory	29/06/2019	71663
		3 H)	Commutative Algebra		71664
	Mathematics	3 I)	Theory of Near Rings		71665
		3 J)	Topics in General Relativity		71666
		3 K)	Theory of Choice Theory of Fuzzy Computation		71667 71668
		3 M)	Lattices Theory		71669
		3 N)	Topics in Geometric Function Theory		71670
		3 (0)	Fluid Dynamics		71670
		3P)	Fuzzy Measures and Integrals		71672
		3Q)	Numerical Analysis III		71673
		3R)	Group Analysis of Differential Equations		71674
		3S)	Mathematical Modeling		71675
				Tuesday	
		1	Research Methodology	25/06/2019	54833
	Home	2	Decemb Transda in Home Caionea	Thursday	E4024
	Science	2	Recent Trends in Home Science	27/06/2019	54834
	(Faculty of Inter- Disciplinary Studies )	3 A)	Thrust areas for Research in Food and Nutrition		54835
29		3 B)	Trust Areas for Research in Family Resource		54836
		3 6)	Management		34030
		dies ) 3 C)	Trust Areas for Research in Human	Saturday	54837
			Development Track Association of Clarking	29/06/2019	F 4020
		3 D)	Trust Areas for Research in Textile and Clothing		54838
		3 E)	Trust Areas for Research in Home Science Extension Education		54839
			Science Extension Education	Tuesday	
		1	Research Methodology	25/06/2019	54559
				Thursday	
		2	Recent Trends in Statistics	27/06/2019	54560
		2.41	Topics in Statistics - Statistical Analysis of	, ,	F.4561
		3 A)	Circular Data.		54561
		3 B)	Topics in Statistics - Topic in Asymptotic		54562
20		اره د	Inference.		J+JU2
30		3 C)	Topics in Statistics - Topic in Distribution		54563
			Theory.		3 1303
	<b>6.</b>	3 D)	Topics in Statistics - Applied Regression		54564
	Statistics	, 	Analysis.		
		3 E)	Topics in Statistics - Topic in Discrete Multivariate Analysis.	Saturday	54565
			Topics in Statistics - Advanced Topics in	29/06/2019	
		3 F)	Sampling Theory.		54566
			Topics in Statistics - Advanced Design of		_
		3 G)	Experiments		54567
		3 H)	Topics in Statistics - Topic in Reliability Analysis		54568
		3 I)	Topics in Statistics - Statistical Quality Control.		54569
		3 J)	Topics in Statistics - Advanced Inference.		54570
		3 K)	Topics in Statistics - Reliability Theory and		54571
		J (/)	Survival Analysis.		J-1J/I

		1		Tuesday	_
		-	Research Methodology in Zoology	25/06/2019	54572
		2		Thursday	
			Research Advances in Zoology	27/06/2019	54573
		3 A)	ADVANCES IN PEST MANAGEMENT		54574
		3 B)	BIOLOGICAL INSECT PEST CONTROL		54575
		3 C)	INSECT PARASITOIDS		54576
31		3 D)	Biopesticides		54577
21		3 E)	BIODIVERSITY	_	54578
	Zoology	3 F)	EXERCISE AND OCCUPPATIONAL		54579
			PHYSIOLOGY	Saturday 29/06/2019	
		3 G)	PHYSIOLOGY OF REPRODUCTION	29/06/2019	54580
		3 H)	Toxicology	_	54581
		3 I)	Biology of Aging	_	54582
		3 J)	Secretory Cells		54583
		3 K)	Cell Biology		54584
		3 L)	Advances in Fisheries and Aquaculture	_	54585
		3 M)	Fish Physiology	<u> </u>	54586
		3 N) 3 O)	Environmental Biology  Trends in sericulture	_	54587
		3 ()	Trends in sericulture	Tuesday	54588
		1	RESEARCH METHODOLOGY	25/06/2019	54589
		2	RECENT ADVANCE IN ENVIRONMENTAL	Thursday	54590
		2.41	SCIENCE SOURCE S	27/06/2019	5.4504
2.2		3 A)	BIODIVERSITY AND CONSERVATION	Saturday	54591
32	Environmental	3 B) 3 C)	WILD LIFE STUDIES		54592
	Science	3 C)	ECO - PHYSIOLOGY AND BIOMONITORING ECOTOXICOLOGY		54593 54594
		3 E)	ENVIRONMENT AND HEALTH	29/06/2019	54595
		3 F)	ENVIRONMENTAL MANAGEMENT		54596
		3 G)	INDUSTRIAL POLLUTION	-	54597
			ENVIRONMENTAL MUTAGENESIS AND	1	
		3 H)	CARCINOGENESIS		54598
		1	Research Methodology and Computer Application	Tuesday 25/06/2019	63191
		2	Recent Trends in Electronics	Thursday 27/06/2019	63192
		3 A)	Digital Image Processing	, ,	63193
33		3 B)	Antenna Design and Measurements		63194
	Electronics	3 C)	Wireless Sensor Networks		63195
		3 D)	Biomedical Engineering		63196
		3 E)	Modern Communication System	Saturday	63197
		3F)	Advances in Power Electronics	29/06/2019	63198
		3G)	Advances In Embedded Systems and VLSI Design	-	63199
		3H)	Problem Solving With Soft Computing		63200

			DESCENDED METHODOLOGY		
		1	RESEARCH METHODOLOGY, QUANTITATIVE TECHNIQUES, COMPUTER APPLICATION	Tuesday 25/06/2019	54605
		2	RECENT TRENDS IN GEOGRAPHY	Thursday 27/06/2019	54606
34		3 A)	Recent Trends in Agricultural Geography		54607
54	Geography	3 B)	Recent Trends in Economic Geography	1	54608
		3 C)	Recent Trends in Settlement Geography	Saturday	54609
		3 D)	Recent Trends in Population Geography	29/06/2019	54610
		3 E)	Recent Trends in Tourism Geography		54611
		3 F)	Recent Trends in Medical Geography	1	54612
		3 G)	Recent Trends in physical Geography	1	54613
		1		Tuesday	54614
		2	Research Methodology	25/06/2019 Thursday	54615
			Recent Trends in Biological Sciences	27/06/2019	
		3 A)	Bioinformatics Bioremediation and Waste Water	_	54616
35		3 B)			54617
ا ع	Mianala!a!a	3 C)	Treatment Technologies.  Advanced Techniques in Cell Culture	Saturday	54618
	Microbiology	3 C)	Agricultural Microbiology and Microbial	29/06/2019	34018
		3 D)	Ecology Ecology	23/00/2013	54619
		3 E)	Applied and Environmental Microbiology		54620
		3 F)	Immunology and Medical Microbiology		54621
		3 G)	Fermentation Technology		54622
		3 H)	Clinical Biochemistry		54623
		1	Research Methodology	Tuesday 25/06/2019	54624
		2	Recent Trends in Biological Sciences	Thursday 27/06/2019	54625
		3 A)	Bioinformatics		54626
	Bio-chemistry	3 B)	Bioremediation and Waste Water Treatment Technologies.		54627
36	Dio-chemistry	3 C)	Advanced Techniques in Cell Culture	1	54628
		3 D)	Agricultural Microbiology and Microbial	Saturday 29/06/2019	54629
			Ecology Applied and Environmental Microbiology	29/00/2019	F4C20
		3 E)	Applied and Environmental Microbiology	-	54630
		3 F)	Immunology and Medical Microbiology	-	54631
		3 G)	Fermentation Technology Clinical Biochemistry	-	54632
		3 H)	Clinical Biochemistry	Tuesday	54633
		1	Research Methodology	25/06/2019	54648
		2	Recent Trends in Biological Sciences	Thursday 27/06/2019	54649
		3 A)	Bioinformatics		54650
	Piotochy class	3 B)	Bioremediation and Waste Water Treatment Technologies.	1	54651
37	Biotechnology	3 C)	Advanced Techniques in Cell Culture	Saturday	54652
	& Environmental	3 D)	Agricultural Microbiology and Microbial Ecology	29/06/2019	54653
		3 E)	Applied and Environmental Microbiology	1	54654
	Biotechnology	3 F)	Immunology and Medical Microbiology	-	54655
		3 G)	Fermentation Technology	1	54656
		3 H)	Clinical Biochemistry	1	54657
	l	311)	- Similar Diodricifilatiy	1	3 7037

		1	Research Methodology	Tuesday 25/06/2019	54634
38	Computer	2	Recent Trends in Computer Science	Thursday 27/06/2019	54635
	Science	3 A)	Research Trends In Computer Science	Saturday 29/06/2019	54636
		1	Research Methodology and Computer Applications in Physical And Chemical Sciences	Tuesday 25/06/2019	54637
		2 Frontiers in Physics	Frontiers in Physics	Thursday 27/06/2019	54638
39	Physics	3 A)	SOL GEL PROCESSING IN SOLID STATE MATERIALS		54639
		3 B)	Deposition of films and their applications		54640
		3 C)	Fuel Cell Technology		54641
		3 D)	Holography and its Applications		54642
		3 E)	THICK AND THIN FILM MICROSTRIP COMPONENT TECHNOLOGY	Saturday 29/06/2019	54643
		3 F)	Photo catalysis		54644
		3 G)	Solar cell: Fundamentals and Applied aspects		54645
		3 H)	Vacuum techniques and Thin films.		54646
		3 J)	Space Science and Astronomy		58733

## M. Phil. / Pre. Ph. D. New Syllabus Paper

# **Faculty of Science and Technology**

Time - 11.00a.m to 2.00p.m SR. **PAPER** CODE **SUBJECT PAPER NAME** DATE NO. NO. NO. RESEARCH METHODOLOGY (Common for 1 Tuesday 54662 Engineering / Technology / Pharmacy) 25/06/2019 **Advances in Pharmaceutical Sciences** 2 A) 54663 (Pharmacological Screening and Assays) **Advances in Pharmaceutical Sciences** 2 B) 54664 (Separation Techniques) Thursday **Advances in Pharmaceutical Sciences** 2 C) 54665 27/06/2019 (Molecular modelling) **Advances in Pharmaceutical Sciences** 2 D) (Isolation And Characterization Of 54666 Phytoconstituents) **Advances in Pharmaceutical Sciences** 54667 2 E) 40 (Optimization Technology) **Pharmacy Advances in Pharmaceutical Sciences** 54668 2 F) (Biopharmaceuticals) Open elective (Polymorphs And Salts In The 3 A) 54669 Pharmaceutical Industry) Open elective (Chemotherapy of Parasitic 3 B) 54670 and Microbial Infections) Saturday 29/06/2019 Open elective (Synthetic strategies in 54671 3 C) synthesis of complex organic molecules) 3 D) Open elective (Clinical Research) 54672 3 E) Open elective (Spectral Analysis) 54673 3 F) Open elective (Drug Regulatory affairs) 54674 Open elective (Quality Assurance & Quality 3 G) 54675 Control) Open elective (Process Analytical 54676 3 H) Technology) 3 I) Open elective (Industrial Pharmacognosy) 54677

	F	aculty	of Science and Technology		
41	Biotechnology	2	ADVANCES IN BIOTECHNOLOGY ENGINEERING	Thursday 27/06/2019	54678
		3 A	Advanced Transport Phenomena		54679
	Engineering	3 B)	Bioprocess modeling and simulations	Saturday	54680
		3 C)	FOOD BIOTECHNOLOGY	29/06/2019	54681
		2 A)	Advances in Structural Engineering	-	54682
		2 B)	Advances in Environmental Engineering		54683
		2 C)	Advances in Geotechnical Engineering		54684
		2 D)	Advances in Water Recourse Engineering	Thursday	54685
		2 E)	Advances in Construction & Management	27/06/2019	54686
		2 F)	Advances in Transportation Engineering		54687
		2 G)	Advances in Town & country planning		54688
		3 A)	New Construction Materials		54689
42	Civil	3 B)	Project Risk Analysis and Mitigation Techniques		54690
	Enginooring	3 C)	Soil Structure Interaction		54691
	Engineering	3 D)	Geotechnical Earthquake Engineering	Caturdan	54692
		3 E)	Systems Techniques in water Resource Engineering	Saturday 29/06/2019	54693
		3 F)	Design of Composite Construction		54694
		3 G)	Non-linear Analysis of Structures		54695
		3 H)	Project economics & financial management		54696
		3 I)	Environmental Auditing & EMS		54697
		2	Advances in Computer Sci. & Engineering	Thursday 27/06/2019	54698
43	Computer Sci.	3 A)	CLOUD COMPUTING	Saturday	54699
	Eng.	3 B)	USER INTERFACE DESIGN	29/06/2019	54700
	8.	3 C)	REAL - TIME AND EMBEDDED SYSTEMS		54701
		3 D)	CONVERGENCE TECHNOLOGIES		54702
		2	ADVANCES IN E&TC ENGINEERING	Thursday 27/06/2019	54703
		3 A)	REAL TIME EMBEDDED SYSTEMS	-	54704
		3 B)	CRYPTOGRAPHY & NETWORK SECURITY		54705
		3 C)	SPEECH & AUDIO PROCESSING		54706
44	E & T. C Engg.	3 D)	MOBILE COMPUTING		54707
	- ~88.	3 E)	STOCHASTIC MODELS & QUEUING THEORY	Caturda	54708
		3 F)	COMMUNICATION SYSTEM DESIGN	Saturday 29/06/2019	54709
		3 G)	OPTICAL NETWORKS	23/00/2019	54710
		3 H)	DIGITAL DATA COMPRESSION		54711
		3 I)	OPTIMIZATION TECHNIQUES		54712
		3 J)	MULTIRATE SYSTEMS AND FILTER BANKS		54713

# M. Phil. / Pre. Ph. D. New Syllabus Paper

# Faculty of Science and Technology Time – 11.00a.m to 2.00p.m

SR.	CUD:507	PAPER	ne – 11.00a.m to 2.00p.m	D.4.77	CODE
NO.	SUBJECT	NO.	PAPER NAME	DATE	NO.
	Electrical Engineering	2		Thursday 27/06/2019	54714
		2	Advances in Electrical Engineering		34714
		3 A)	Restructured Power Systems		54715
		3 B)	Flexible AC Transmission Systems		54716
		3 C)	Computational Electromagnetic		54717
45		3 D)	Modeling and Identification of		54718
			Dynamical Systems	Saturday 29/06/2019	
		3 E)	Optimization	29/00/2019	54719
		3 F)	Computer aided Power System Analysis		54720
		3 G)	Artificial Neural Networks		54721
		3 H)	Power System Protection		54722
		3 I)	Numerical Methods for Linear Control Systems		54723
	Electronics Engineering	2 A)	Advances in Electronics Engineering-I	Thursday	54724
		2 B)	Advances in Electronics Engineering-II	27/06/2019	54725
		3 A)	Mathematical Methods and Algorithms	Saturday 29/06/2019	54726
		3 B)	MICROELECTRONICS DESIGN		54727
		3 C)	ADVANCED DIGITAL SYSTEM DESIGN		54728
		3 D)	WIRELESS AND MOBILE TECHNOLOGIES		54729
		3 E)	MACHINE INTELLIGENCE		54730
46		3 F)	ADVANCED COMPUTING ARCHITECTURES		54731
		3 G)	MEMORY TECHNOLOGIES		54732
		3 H)	BIOMEDICAL SIGNALS AND SYSTEMS		54733
		3 I)	EMBEDDED VIDEO PROCESSING		54734
		3 J)	RECONFIGURABLE COMPUTING		54735
		3 K)	EMBEDDED AUTOMOTIVE SYSTEMS	- - -	54736
		3 L)	DIGITAL SIGNAL COMPRESSION		54737
		3 M)	SOFTWARE DEFINED RADIO		54738
		2	Instrumentation & Measurement	Thursday	54740
47		۷	Technology	27/06/2019	
	Instrumentation	3 A)	Biomedical Instrumentation	Saturday	54741
	Engineering	3 B)	Advanced Process Control & Instrumentation	29/06/2019	54742

	-		Adams to Marke Salfaste at		I
		2 A)	Advances in Mechanical Engineering (CAD/ CAM/CAE- I)		54743
		2 B)	Advances in Mechanical Engineering (CAD/CAM/CAE-II)		54744
		2 C)	Advances in Mechanical Engineering (Design-I)		54745
		2 D)	Advances in Mechanical Engineering (Design-II)		54746
	Mechanical / Production Engineering	2 E)	Advances in Mechanical Engineering (Heat Power-I)	Thursday 27/06/2019	54747
		2 F)	Advances in Mechanical Engineering (Heat Power-II)		54748
		2 G)	Advances in Mechanical Engineering (Production-I)		54749
		2 H)	Advances in Mechanical Engineering (Production-II)		54750
		2 1)	Advances In Mechanical Engineering (Production Engineering)		54751
		2 J)	Advances In Mechanical Engineering (Cad/Cam/Cae)		54752
48		2 K)	Advances In Mechanical Engineering (Industrial Engineering)		54753
		3 A)	Numerical Computation of Fluid and Heat Flow		54754
		3 B)	Energy Analysis of Thermal Systems		54755
		3 C)	Design of Heat Transfer Equipments		54756
		3 D)	Mathematical Modeling and Design Optimization	Saturday	54757
		3 E)	Advanced theory of vibration		54758
		3 F)	Analysis and Synthesis of Mechanisms		54759
		3 G)	Advanced Finite Element Analysis		54760
		3 H)	Noise and Vibration Harshness(NVH)		54761
		3 I)	Optimization Techniques		54762
		3 J)	Mechatronics system design		54763
		3 K)	MEMS & Nanotechnology		54764
		3 L)	Supply chain management & Logistics	29/06/2019	54765
		3 M)	Automatic Control Engineering	., ,	54766
		3 N)	Decision Making in Manufacturing Environment		54767
		3 O)	Metal Forming Technology		54768
		3 P)	Mechatronics		54769
		3 Q)	Advanced casting technology		54770
		3 R)	Manufacturing Systems		54771
		3 S)	Precision Engineering		54772
		3 T)	Computer Aided Manufacturing		54773
		3 U)	Advanced Materials & Processing		54774
		3 V)	Tribology		54775
		3 W)	Technology Management		54776
		3 X)	Database Management	4	54777
		3 Y)	Modern manufacturing systems		54778
		3 Z)	Low Cost Automation	<u> </u>	54779

49	TEXTILE - ENGINEERING	2	ADVANCES IN TEXTILE ENGINEERING	Thursday 27/06/2019	54780
		3 A)	High Performance Fibres	Saturday 29/06/2019	54781
		3 B)	Technical Textiles		54782
		3 C)	Textile For Protection		54783
		3 D)	Textile for Sports Application		54784
		3 E)	Textile in Automobile Engineering		54785
		3 F)	Intelligent Textiles & Clothing		54786
		3 G)	Physical Methods of Analysis & Eco- Testing		54787
		3 H)	Nanotechnology in Textiles		54788
		3 I)	Project Preparation, Appraisal & Implementation		54789
		3 J)	Management of Textile Production		54790

50	Architecture Engineering	2	Land and Regulations for Development (Land Development and Buildings)	Thursday 27/06/2019	72994		
	0 3 0	3 A)	Architectural Heritage and Conservation	Saturday	72995		
		3 B)	Environmental Architecture & Planning	29/06/2019	72996		
M. Phil. / Pre. Ph. D. New Syllabus Paper							
Faculty of Science and Technology							
M. Phil. / Pre. Ph. D. New Syllabus Paper							
		1	Research Methodology	Tuesday	72997		
	Nano science			25/06/2019			

Nano-characterization Methods

Nanostructure Synthesis

Thursday

27/06/2019

Saturday

29/06/2019

72998

72999

51

and

Technology

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- 1 Examinee should confirm the customized Time-Table printed on his/her hall ticket with the final programme of examination sent to College / Department and also available on University website www.unishivaji.ac.in
- 2 The students are allowed to use the non programmable calculator for Numerical calculations at their own cost. University will not supply such calculators.
- 3 Cellular Phone (Mobile), Programmable Scientific Calculator & Digital Diary or any other means which can be used for unfair practice is not allowed in the Examination Hall.

**Note:** The Examination Programme is subject to change; if there is any change the University is not responsible for the loss or inconvenience caused to the candidates.

Sd/---

Shri. M. A. Kakade

**Director** 

**Board of Examinations and Evaluation** 

Vidyanagari,

Kolhapur-416 004,

SU/EXAM/B.Sc/M.Phil/Appointment Section/ Circular No. 306

Date- 22 /05/2019