

Discipline wise List Of Courses for PhD Course Work

S. No.	Discipline/ Programme Code	School	Course Codes and Courses offered for PhD Course Work
			Total 18 credits (16 Credits + *2 Credits) * 2 credits on Research and Publication Ethics - RPE001 (prescribed by UGC w.e.f. 2020 is a compulsory course for all disciplines)
1.	Anthropology / PHDAN	SOSS	<u>Compulsory – 4 ; Optional : 1</u> <u>Compulsory</u> 1. RAN101 - Essentials in Anthropology – 4 Cr 2. RAN102 - Research Methodology – 4 Cr 3. RAN103 - Anthropology in Practice – 4 Cr 4. RPE001 - Research and Publication Ethics - 2 cr. <u>Optional (4 Credits each)</u> 1. RANE101 - Perspectives in Physical Anthropology 2. RANE102 - Perspectives in Social Anthropology
2.	Economics / PHDEC	SOSS	<u>Compulsory – 4 ; Optional : 0</u> 1. REC101 - Research Methodology – 6 Credits 2. REC102 - Economic Theory - 6 Credits 3. REC103 - Econometric Methods – 4 Credits 4. RPE001 - Research and Publication Ethics - 2 cr.
3.	History / PHDHIS	SOSS	<u>Compulsory – 5 ; Optional : 0 ;</u> 1. RHI101 - Historical Methods – 4 Cr 2. RHI102 – Historiography – 4 Cr 3. RHI103 - Study of Source Material – 4 Cr 4. RHI104 - Interdisciplinary Approach to Historical Research – 4 Cr 5. RPE001 - Research and Publication Ethics - 2 cr.
4.	Library and Information Science / PHDLIS	SOSS	<u>Compulsory – 4 ; Optional : 0</u> 1. RLI011 - Research Methodology – 8 Credits 2. RLI012 - Recent Trends in LIS – 4 Credits 3. RLI013 - Open Access and Scholarly Communication - 4 Credits

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			4. RPE001 - Research and Publication Ethics - 2 cr.
5.	Political Science / PHDPS	SOSS	<u>Compulsory – 5 ; Optional : 0 –</u> 1. RPS101 - Research Methodology and Methods - 4cr 2. RPS102 - Political Theory and Thought – 4 cr 3. RPS103 - India : State and Society – 4 cr 4. RPS104 -Globalisation and International Relations -4 cr. 5. RPE001 - Research and Publication Ethics - 2 cr.
6.	Psychology / PHDPC	SOSS	<u>Compulsory – 3 ; Optional : 2</u> <u>Compulsory</u> 1. RPC101 - Advanced Research Methodology – 4 Cr 2. RPC102 - Advanced Statistics in Psychology – 4 Cr 3. RPE001 - Research and Publication Ethics - 2 cr. <u>Optional : (4 credits each)</u> 1. RPCE103 - Mental and Behavioral Disorders 2. RPCE104 - Psychological Interventions 3. RPCE105- Approaches and Techniques in Counseling Psychology 4. RPCE106 - Counseling for Diverse Populations and Settings 5. RPCE107 – Organizational behavior and Human Resource 6. RPCE108 - Organizational Change and Effectiveness
7.	Public Administration / PHDPA	SOSS	<u>Compulsory – 5 ; Optional : 0 – (4 Credits each)</u> 1. RPA101 – Administrative Theories and Approaches 2. RPA102 – Administration for Development 3. RPA103 – Contemporary Issues in Governance 4. RPA104 – Research Methodology 5. RPE001 - Research and Publication Ethics - 2 cr.
8.	Sociology / PHDSOC	SOSS	<u>Compulsory – 3 ; Optional : 2 (4 credits each)</u> <u>Compulsory</u> 1. RSO-101- Sociological Theory – 4 Cr. 2. RSO102 – Research Methodology – 4 Cr.

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			3. RPE001 - Research and Publication Ethics - 2 cr. <u>Optional</u> 1. RSOE101 – Urbanization and Urban Development 2. RSOE102 – Social Movements 3. RSOE004 – Sociology of Marginalisation 4. RSOE005 – Globalisation, Migration and Identity
9.	Biochemistry / PHDBC	SOS	<u>Compulsory – 2 ; Optional : 2</u> <u>Compulsory – 4 Credits each</u> 1. RBC001 - Research Methodology 2. RBC002 - Biostatistics and Bioinformatics 3. RPE001 - Research and Publication Ethics - 2 cr. <u>Optional - 4 Cr. each</u> 1. RBC003 - Biochemical & Molecular Biological Techniques 2. RBC004 - Biophysical Technique 3. RBC005 - Biological Macromolecules and Metabolism 4. RBC006 - Molecular Cell Biology 5. RBC007 - Enzymes and Enzyme Technology 6. RBC008 - Immunology 7. RBC009 - Nutritional Biochemistry 8. RBC0010 – Clinical Biochemistry
10.	Chemistry – PHDCHEM	SOS	<u>Compulsory – 4 ; Optional : 1</u> <u>Compulsory</u> 1. RCH001 - Research Methodology – 4 Cr.

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			2. RCH002 - Analytical Techniques in Chemistry – I - 4 Cr. 3. RCH003 - Analytical Techniques in Chemistry – II - 4 Cr. 4. RPE001 - Research and Publication Ethics - 2 cr. <u>Optional – 4 Credits each</u> 1. RCHE001 – Advances in Organic Chemistry 2. RCHE002 – Advances in Inorganic Chemistry 3. RCHE003 – Advances in Physical Chemistry 4. RCHE004 – Advances in Smart Materials
11.	Geology / PHDGY	SOS	Compulsory – 3 ; Optional : 2 Compulsory - 4 Credits each 1. RGY101 - Research Methodology – 4 cr. 2. RGY102 - Research Techniques in Geology 4 cr. 3. RPE001 - Research and Publication Ethics - 2 cr. Optional – 4 Credits each 1. RGYE103 - Mineralogy 2. RGYE104 - Petrology 3. RGYE105- Geochemistry 4. RGYE106 – Georesources 5. RGYE107 - Coal Geology 6. RGYE108 - Structural Geology 7. RGYE109 - Stratigraphy 8. RGYE110 - Palaeontology 9. RGYE111 - Geomorphology 10. RGYE112 - Geological Applications of Remote Sensing and GIS 11. RGYE113 - Hydrogeology 12. RGYE114 - Environmental Geology
12.	Geography PHDGEOG	SOS	Compulsory – 2 ; Optional : 2 <u>Compulsory</u> 1. RGG101 - Research Methodology in Geography and Field Methods – 4 Cr. 2. RGG102 - Research Techniques – 4 Cr. 3. RPE001 - Research and Publication Ethics - 2 cr <u>Optional – 4 Credits each</u>

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			1. RGGE101 - Research in Physical Geography 2. RGGE102 - Research in Human Geography 3. RGGE103 - Regional Development and Planning in India 4. RGGE104 - Social Factors in Region Formation in India
13.	Life Science / PHDLS	SOS	*Compulsory - 4 ; 1. RLS-101 - Research Methodology 2. RLS-102 - Biological Techniques 3. RLS-103 - Biostatistics & Computer Applications in Biological Research 4. RPE001 - Research and Publication Ethics - 2 cr Optional ; 8 cr. RLSE-113 - Insect Pest Management RLSE – 114 -Insect Toxicology RLSE – 115 - Medical Entomology RLSE – 118 - Natural Plant Products RLSE – 119 - Plant Tissue Culture RLSE – 121 - Plant Taxonomy RLSE – 122 - Introduction to Nematology RLSE – 127 - Human Physiology * Any <i>two</i> from three mentioned courses of 4 Cr. each (after consultation with respective supervisor) • Any <i>one</i> from eight mentioned courses (after consultation with respective supervisor)
14.	Physics / PHDPH	SOS	Compulsory – 4 1. RPH – 001 – Research Methodology - 4 Cr. Each 2. RPHI-002 – Computational Techniques - 4 Cr.

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			Each 3. RPHE-005 – Nanotechnology – 8 Cr. 4. RPE001 - Research and Publication Ethics - 2 cr
15.	Statistics / PHDSTAT	SOS	Compulsory – 5 ; Optional : 0 1. RST 001 - Research Methodology in Statistics -4cr 2. RST 002 - Computer Applications in Research – 4cr 3. RST003 - Advanced Sample Surveys – 4 cr. 4. RST004 - Advances in Statistics – 4 cr. 5. RPE001 - Research and Publication Ethics - 2 cr
16.	Mathematics / PHDMT	SOS	Compulsory – 4 ; Optional : 1 (4 cr. Each) Compulsory 1. RMT103 - Research Methodology – 4 cr. 2. RMT101 – Algebra – 4 cr. 3. RMT102 - Analysis – 4 cr. 4. RPE001 - Research and Publication Ethics - 2 cr Optional RMTE104 - Advanced Algebra RMTE105 - Partial Differential Equation RMTE106 - Probability Theory RMTE107 - Optimization
17.	French / PHDFL	SOFL	<u>Compulsory – 2 - (8 Credits)</u> 1. RFL101 -- Research Methodology – 8 cr. 2. RPE001 - Research and Publication Ethics - 2 cr <u>Optional – 1 - (8 Credits)</u> RFLE 106 - Didactics RFLE 107 - Didactics of Foreign Languages through Distance mode RFLE 109 - Theories of General Linguistics
18.	Commerce – PHDCOM	SOMS	<u>Compulsory – 4 ; Optional : 0</u> 1. RCO011 – Research Methodology – 6 Cr. 2. RCO012 – Specialization Course (In the selected

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			area of research interest of the candidate) – 6 Cr. a. Accounting and Taxation b. International Business c. Banking and Finance d. Marketing Management e. Entrepreneurship and Small Business Management 3. RCOP013 – Practical - 4 Cr. 4. RPE001 - Research and Publication Ethics - 2 cr
19.	Management / PHDMGMT	SOMS	<u>Compulsory – 3 ; Optional : 1</u> <u>Compulsory</u> 1. RMS -001 - Research Methodology – 6 Cr. 2. RMS-003 – Review of Literature and Presentation – 4 Cr. 3. RPE001 - Research and Publication Ethics - 2 cr <u>Optional - 6 Cr. each</u> 1. RMSE001 – Financial Management 2. RMSE002 – Human Resource Management 3. RMSE003 – Marketing Management 4. RMSE004 – Operation as Management 5. RMSE005 – General Management
20.	Computer Science – PHDCS	SOCIS	<u>Compulsory – 2 ; Optional - 2</u> <u>Compulsory – 8 Credits</u> 1. RCS001 – Research Methodology – 8 cr. 2. RPE001 - Research and Publication Ethics - 2 cr <u>Optional – 4 Credits each</u> 1. RCSE001 – Data Mining 2. RCSE002 – Machine Learning 3. RCSE003 – Rough Set Theory 4. RCSE004 – Fuzzy Logic & Fuzzy 5. Systems : Theory, Simulations and Application 6. RCSE005 - Simulations and Modeling 7. RCSE006 – Web Engineering 8. RCSE007 – Digital Watermarking & Steganography 9. RCSE008 – Advanced Operating

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			System 10. RCSE009 – Digital Image Processing 11. RCSE010 – Artificial Intelligence 12. RCSE011 - Software Engineering 13. RCSE012 – Software Architecture 14. RCSE013 – Software testing 15. RCSE014 - Ad-hoc networks 16. RCSE015 – E- Learning 17. RCSE016 – Computer Networks 18. RCSE017 – Evolutionary Techniques 19. RCSE018 – Theory of Computation 20. RCSE020 – Emerging Trends in Networks 21. RCSE021 – Internet and Web Technology 22. RCSE022 – Security and Cryptography 23. RCSE023 – Object Oriented Technology 24. RCSE025 – Cellular and mobile communications 25. RCSE027 – Requirement and Estimation Techniques
21.	PhD in Child Development - PHDCD	SOCE	<u>Compulsory -3 ; Optional – 0 (8 credits each)</u> 1.RCD001 – Research Methodology – 8 cr 2.RCD002 – Child Development – 8 cr 3.RPE001 - Research and Publication Ethics - 2 cr
22.	Food and Nutritional Science / PHDFN	SOCE	<u>Compulsory – 2 - (8 Credits)</u> 1. RFN001 – Research Methods & Biostatistics – 8 cr 2. RPE001 - Research and Publication Ethics - 2 cr <u>Optional – 1 - (8 Credits)</u> 1.RFNE002 – Public Nutrition 2.RFNE003 – Clinical & Therapeutic Nutrition 3.RFNE004 – Advance Nutrition 4.RFNE005 – Food Service Management

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23.	Home Science / PHDHC	SOCE	<u>Compulsory – 3</u> 1. RHC001 - Research Methodology – 8cr. 2. RHCE001 - Community Resource Management & Extension – 8 cr 3. RPE001 - Research and Publication Ethics - 2 cr
24.	Rural Development PHDRD	SOCE	<u>Compulsory – 3 ; Optional – 0</u> 1.RRD-001 - Research Methodology - <u>(8 Credits).</u> 2. RRD-002 - Rural Development - <u>(8 Credits)</u> 3.RPE001 - Research and Publication Ethics - 2 cr
25.	Dairy Science and Technology / PHDDR	SOA	<u>Compulsory – 5 ; Optional -0</u> 1. RDR101 - Advances in Dairy Chemistry – 4 cr 2. RDR102 - Advances in Dairy Microbiology – 4 cr 3. RDR103 - Advances in Dairy Technology – 4 cr 4. RDR104 - Research Methodology – 4 cr 5. RPE001 - Research and Publication Ethics - 2 cr
26.	Distance Education / PHDDE	SOE	<u>Compulsory – 3 ; Optional : 1 ;</u> 1. RDE101 – Research Methodology – 4 cr 2. RDE102 – Context and Concern in Distance Education – 4 cr 3. RPE001 - Research and Publication Ethics - 2 cr <u>Optional (4 Credits each)</u> 1. RDE103 – Information and Communication Technologies 2. RDE104 – Web Based Education

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27.	Education / PHDES	SOE	<u>Compulsory – 5 ; Optional : 0</u> 1. RES101 - Research Methodology I - 4 Credits 2. RES102 - Research Methodology II - 4 Credits 3. RES103 - Data Analysis Techniques - 4 Credits 4. RES104 - Computer Applications in Research - 4 cr. 5. RPE001 - Research and Publication Ethics - 2 cr
28.	Development Studies / PHDDV	SOEDS	<u>Compulsory – 2 ; Optional – 0</u> 1. RDV-001 – Anatomy of Development Studies – 8 cr. 2. RDV-002 – Methodology in Development Research and Studies – 8 cr. 3. RPE001 - Research and Publication Ethics - 2 cr
29.	English / PHDENG	SOH	<u>For Literature Stream</u> <u>Compulsory – 3 ; Optional – 0 – (8 Credits)</u> 1. REG101 – Research Methodology - 4 Cr. 2. REG102 - Literary Theory & Criticism – 4cr. <u>For Language Stream</u> REG103 – Research Methodology – 8 cr 3. RPE001 - Research and Publication Ethics - 2 cr <u>Optional – 1 – 8 Credits</u> 1. REG104 – Second Language Acquisition 2. REG105 – The Structure of English 3. REG106 – Sociolinguistics
30.	Hindi / PHDHIN	SOH	<u>Compulsory – 3 ; Optional – 0</u> 1. RHD101 – Anusandhan Ka Swaroop Aur Pravidhi – 8cr 2. RHD102 – Adhunik Vimarsh Aur Chintan Dristiyaan – 8 cr 3. RPE001 - Research and Publication Ethics - 2 cr
31.	Sanskrit / PHDSK		<u>Compulsory – 3 ; Optional – 0</u> 1. RSK001 – शोध प्रविधि – 8 cr

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			2. RSK002 - संस्कृत भाषा और साहित्य – 8 cr 3. RPE001 - Research and Publication Ethics - 2 cr
32.	Urdu / PHDUL		<u>Compulsory – 3 ; Optional – 0</u> 1. RUL001 - Research Methodology – 8 cr 2. RUL002 - Urdu Criticism – 8 cr 3. RPE001 - Research and Publication Ethics - 2 cr
33.	Environmental Science / PHDEV	SOITS	<u>Compulsory – 3</u> 1. REV-001 -- Research Methodology-1- 4 Credits 2. REV-002 - Research Methodology-2- 4 Credits 3. RPE001 - Research and Publication Ethics - 2 cr <u>Optional – 1 – 8 Credits</u> 1. REVE001 -- Environmental Chemistry 2. REVE002 - Sustainable Resource Management 3. REVE003 - Environmental Biotechnology 4. REVE004 - Environmental Geomicrobiology 5. REVE005 - Environmental Management 6. REVE006 - Climate Change 7. REVE007 -- Sustainability Science
34.	Inter Disciplinary & Trans. Disciplinary Studies / PHDITS	SOITS	<u>Compulsory – 3 ; Optional – 0</u> 1. RITS001 – Introduction to Interdisciplinary and Transdisciplinary Studies - 8 cr 2. RITS002 – Research Methods and Techniques – 8 cr 3. RPE001 - Research and Publication Ethics - 2 cr
35.	Gender & Development Studies / PHDGDS	SOGDS	<u>Compulsory – 3 ; Optional : 0</u> 1. RGD001 – Gender and Development : Concept and Theories – 8 cr 2. RGD002 – Research Methodology : Gender & Developmental Studies – 8 cr 3. RPE001 - Research and Publication Ethics - 2 cr
36.	Women's Studies / PHDWS	SOGDS	<u>Compulsory – 3; Optional : 0</u> 1. RWS001 – Concept Theory and Theories in Women's Studies – 8 cr 2. RWS002 – Feminist Theory Research Methodology – 8 cr 3. RPE001 - Research and Publication Ethics - 2 cr

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37.	Journalism & Mass Communications / PHDJMC	SOJNMS	4. <u>Compulsory – 5 ; Optional : 0</u> 1. RJM101 - Communication Theory Research Methods (Theory) - 8 cr 2. RJM102 - Data Analysis And Statistical Applications (Theory) – 4 cr 3. RJMP101 – Seminar Series on Communicational Media Studies (Project) – 4 cr 4. RJMP102 – Workshop Series (Project) – 4 cr 5. RPE001 - Research and Publication Ethics - 2 cr
38.	Nursing / PHDNS	SOHS	<u>Compulsory – 4 ; Optional : 0</u> 1. RNS001- Philosophical and Theoretical Foundations/Ideology in Nursing Sciences – 4 Cr. 2. RNS002- Nursing Leadership in Health Care – 4 Cr. 3. RNS003 - Research Methodology and Applied Statistics. – 8 Cr. 4. RPE001 - Research and Publication Ethics - 2 cr
39.	Performing and Visual Arts (Fine Arts / Theatre Arts / Music / Dance - PHDPVA	SOPVA	<u>Compulsory – 2 ; Optional : 1</u> <u>Compulsory</u> 1. RPF001 – Research Methodology in Performing and Visual Arts – 8 cr 2. RPE001 - Research and Publication Ethics - 2 cr <u>Optional - 8 cr each</u> 1. RFAP002 – Studies in Languages of Aesthetics 2. RFAP003 – Contemporary Practices in Fine Arts 3. RFAP004 – Analytical and Critical Studies in Fine Arts 4. RMU002 – Historical study of Indian Music 5. RMU003 – Contemporary trends in Indian Music 6. RMU004 – Dissertation 7. RTH002 – Contemporary Trends in Theatre Arts 8. RTH003 – Text in Theatre Performances 9. RTH004 – Course related to Area

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			of Research
			10. RDN001 – Perspectives in Dance Research
40.	Social Work / PHDSW	SOSW	<u>Compulsory – 3 ; Optional : 0</u> 1. RSW001 – Research Methods and Statistical Applications in Social Work – 8 cr 2. RSW002 – Social Work Theory and Practices – 8 cr 3. RPE001 - Research and Publication Ethics - 2 cr
41.	Translation Studies / PHDTT	SOTS	<u>Compulsory – 5 ; Optional – 0;</u> 1. RTT101 – Research Methodology - 4 cr 2. RTT102 – Translation : Theory & Practice - 4 cr 3. RTT103 – Critiquing Translation - 4 cr 4. RTT104 - Translation and Power - 4 cr 5. RPE001 - Research and Publication Ethics - 2 cr
42.	Tourism and Hospitality Service Management / PHDTS	SOTHSM	<u>Compulsory – 3 ; Optional – 0 : (8 Credits each)</u> 1. RTS101 - Interdisciplinary Approaches in Tourism and Hospitality – 8 cr 2. RTS103 - Research Methodology in Tourism and Hospitality – 8 cr 3. RPE001 - Research and Publication Ethics - 2 cr
43.	Vocational Education / PHDVE	SOVET	<u>Compulsory – 4 ; Optional : 0</u> 1. RVE002 – Foundations of Vocational Education and Training – 4 Cr. 2. RVE003 – Research Issues in Vocational Education and Training – 4 cr. 3. RVE004 - Research Methodology– 1 – 4 cr 4. RVE005 – Research Methodology -2 – 4 cr. 5. RPE001 - Research and Publication Ethics - 2 cr
44.	Law / PHDLE	SOL	<u>Compulsory – 3 ; Optional – 0</u> 1. RLE-005 - Research Methodology - 8 cr. 2. RLE-006 - Constitutional Law (Part-A) and Jurisprudence (Part-B) - 8 (4 credit for each part) 3. RPE001 - Research and Publication Ethics - 2 cr

Note : The above pre PhD courses are revised as per the requirement of the disciplines on approval of the Statutory authorities.