



Punyashlok Ahilyadevi Holkar Solapur University

Criterion1–CurricularAspects

1.1 Curriculum Design and Development

Metric No.	
1.1.3	Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the University
	Any additional information <ul style="list-style-type: none">• Programme/ Curriculum/ Syllabus of the courses• Minutes of the Boards of Studies/ Academic Council meetings with• approvals for these courses MoUs with relevant organizations for these courses, if any• Average percentage of courses having focus on employability/ entrepreneurship/skill development (Data Template)

Number of courses having focus on employability/entrepreneurship/skill development year wise during the last five years: **2415**

Year	2015-16	2016-17	2017-18	2018-19	2019-20
Number of Courses	404	415	397	505	694
Percentage per year	67.68	65.25	59.34	70.00	70.53

Average percentage **66.68%**



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☼ Registrar Office ☼

DECLARATION cum CERTIFICATE

I certify that, the curricula for the courses stated in Metric No. 1.1.3 are developed having focus on employability / entrepreneurship / Skill development during the assessment period. The activities conducted and delivered under respective courses are shown in the format (Metric Excel Sheet).



Registrar

Authorized Signatory

Punyashlok Ahilyadevi Holkar
Solapur University, Solapur (M.S.)

Registrar

Punyashlok Ahilyadevi Holkar
Solapur University, Solapur

1.1.3 Courses Having Employability, Entrepreneurship and Skill Development

Employability	NAME OF THE COURSE
	MSc-Master of science physics
	Semiconductor Devices
	Atomic Molecular & Nuclear Physics
	Communication System
	Energy Harvesting Devices
	Introduction to MATLAB & LabVIEW
	Microelectronics
	Microwave Devices & Circuits
	Microprocessors & Interfacing
	Fiber Optic Communications
	Project
	Semiconductor Devices
	Atomic, Molecular & Nuclear Physics
	Material Processing
	Energy Harvesting Devices
	Microelectronics
	Physics of Nano Materials
	Magnetic Materials
	Advanced Techniques of Materials Characterization
	Project
	MSc-Master of science electronics
	Digital Signal Processing
	Digital Communication
	Satellite Communication
	Internetworking & Data Communication
	Optical Fiber Communication
	Power Electronics
	Advanced Microcontroller
	Satellite Communication
	MSc-Master of science physics
	Project
	Semiconductor devices
	Atomic,molecular and nuclear physics
	Soft Condensed Matter Physics
	Energy Harvesting Devices
	Microelectronics
	Physics of Nano Materials
	Properties of Solids
	Experimental Techniques in PHYSICS
	Project
	Ph.D. Doctor of philosophy in Physics
	RESERCH METHODOLOGY AND ICT
	RESENT TREND I PHYSICS
	SOLAR CELL AND SUPER CAPACITOR



	FERROELECTRIC AND FERROMAGNETIC MATERIALS
	SOLID STATE GAS SENSOR DEVICES
	M.Sc. Master of Science Chemistry
	Inorganic Chemistry-I
	Organic Chemistry-I
	Physical Chemistry-I
	Analytical Chemistry-I
	Chemistry in Life Sciences
	Inorganic Chemistry
	Organic Chemistry
	Physical Chemistry
	Analytical Chemistry
	Analytical Chemistry
	Inorganic Chemistry-II
	Organic Chemistry-II
	Physical Chemistry-II
	Green Chemistry
	Instrumental Methods of Analysis
	Medicinal Chemistry-I
	Inorganic Chemistry
	Organic Chemistry
	Physical Chemistry
	Physical Chemistry
	Analytical Chemistry
	Medicinal Chemistry
	M.Sc. Master of Science Organic Chemistry
	Advanced Organic Chemistry-I
	Advanced Spectroscopic Methods
	Technical English Communication Skills
	Photochemistry and Pericyclic Reactions
	Medicinal Chemistry-II
	Drugs and Heterocycles
	Unit operations of chemical Engineering
	Practical HCP 3.1
	Practical HCP 3.2
	Practical SCP 3.1
	Practical OEP3.1
	Practical OEP3.2
	Advanced Organic Chemistry-II
	Stereochemistry
	Chemistry of Natural Products
	Applied Organic Chemistry
	Chemical Industries
	Practical HCP 4.1
	Practical HCP 4.2



Practical SCP 4.3
Major Project
Fundamentals of Feedstocks and Polymers
M.Sc. Master of Science Polymer Chemistry
Morphology and Physical Chemistry of Polymers
Technical English Communication Skills
Basic Concepts of Polymerization
Natural and Synthetic Textile fibers and Resins
Spectral and Instrumental Analysis of Polymers
Unit operations of chemical Engineering
Practical HCP 3.1
Practical HCP 3.2
Practical SCP 3.1
Practical OEP3.1
Practical OEP3.2
Step-growth Polymers
Stereoregular Polymers and Modern Polymerisation Methods
Selected Topics in Polymers
Processing Technology and Polymer Properties
Inorganic and Biopolymers
Practical HCP 4.1
Practical HCP 4.2
Practical SCP 4.3
Major Project
M.Sc. Master of Science Industrial Chemistry
Unit operations of chemical Engineering
Unit processes in Chemical technology
Technical English Communication Skills
Instrumental Analysis
Advanced Topics in Industrial Chemistry-II
Advanced Topics in Industrial Chemistry-I
Advanced Organic Chemistry-I
Practical HCP 3.1
Practical HCP 3.2
Practical SCP 3.1
Practical OEP3.1
Practical OEP3.2
Chemical Industries
Pollution Monitoring and Control
Nanotechnology and Instrumental Analysis
Industrial Management and Material Balance
Chemical Industries-II
Practical HCP 4.1
Practical HCP 4.2



	M.Sc.-Master of Science Mathematics
	Algebra- I
	Real Analysis - I
	Differential Equations
	Number Theory
	Algebra - II
	Real Analysis - II
	General Topology
	Relativistic Mechanics
	Fundamentals in Mathematics
	Vedic Mathematics
	Functional Analysis
	Advanced Discrete Mathematics
	Differential Geometry
	Fuzzy Mathematics
	Numerical Techniques
	Optimization Techniques
	Measure and Integration
	Partial Differential Equations
	Integral Equations
	Numerical Analysis
	Lattice Theory
	M.Sc.-Master of Science Computer Science
	DBMS
	Data Structures
	Object Oriented Programming using C++
	Software Engineering
	Operating System
	Java Programming
	Computer Communication Network
	UML
	Office Automation
	Linux Operating System
	Mobile Computing
	Digital Image Processing
	Mobile Computing
	Artificial Intelligence
	Operations Research
	Finite Automata
	Procedural Programming Language
	Internet of Things
	.NET Technology
	Soft Computing
	Data Mining and Warehouse
	Distributed Operating System
	Network Security
	M.C.A. -Master of Computer Applications



Introduction to Computers
Programming using C
Digital Circuits and Microprocessors
Management
Discrete Mathematical Structures
Operations Research
Object Oriented Programming using C++
Data Structures
Numerical Analysis
Software Engineering
Graph Theory
Office Automation
Linux Operating System
System Software
DBMS
Java Programming
Computer Communication Network
Computer Architecture
Programming with PHP
Fundamentals of Web Designing
Internet of Things
.NET
Data Mining and Warehouse
UML
Finite Automata
Distributed Operating System
Computer Graphics
Digital Image Processing
Web Design Techniques
Mobile Computing
Artificial Intelligence
Network Security
Pattern Recognition
M.Sc.-Master of Science Biostatistics
M.Sc.-Master of Science Biostatistics
Introduction to Biostatistics
Design of Sample Surveys
Probability and distributions
Data Analysis using Software
Introduction to Ecology
Introduction to Basic Epidemiology
Statistical Inference-I
Linear Algebra and Regression Techniques
Introduction to Statistical Genetics
Vital Statistics
Statistical Methods
Communicate in English Confidently



Statistical Inference-II
Micro-array Data Analysis
Multivariate Statistical Methods
Applied Statistics
Demography and Health Statistics
Clinical Trials
Reliability and Survival Analysis
Data Mining
Ph.D. - Course Work in Statistics
Research Methodology and Information Communication Technology
Modern Topics in Statistics
Modern Topics in Statistics
Ph.D. - Course Work in Computer Science
Research methodology and information Communication Technology
Modern topics in Computer Science
Digital Image Processing
M.A.-Music - Vocal / Sitar / Basari / Harmonium
Sangeetache Kriyatmak Shastra Ani Sangitik Rachna
History of Indian Music
Shastriya Sangitache Kriyatmak Siddhant
Concert
Project
Sangeetache Kriyatmak Shastra Ani Sangitik Rachna
History of Indian Music
Shastriya Sangitache Kriyatmak Siddhant
Loksangeet of Maharashtra
Sugam Sangeet
Concert
M.A.-Music- Tabla / Pakhavaj
Traditional Compositions of Tabla / Pakhavaj
Introductions of Solo & Accompaniment of tabla / Pakhavaj
Introductions Technicle Terms of Tabla/Pakhavaj
Introductions of Gharanas & Compositions of Tabla or
Stage Performance
Project
Traditional Compositions of Tabla / Pakhavaj
Solo & Accompaniment of Tabla/ Pakhavaj
Introductions of Tabla/Pakhavaj
History of Other Percussion Instruments or
Stage Performance
M.A.-Dramatics
INTRODUCTION TO PERFORMING ARTS
ELEMENTS OF THEATRE & PLAY PRODUCTION PROCESS
BASICS OF THEATRE ACTING (PRACTICAL)
FOLK THEATRE OF INDIA Or
CLASSICAL INDIAN THEATRE



PARTICIPATION IN SCENE-WORK
STAGE DESIGN MODEL MAKING (PAPER WORK, CUE SHEETS LIGHT & MUSIC)
History of Theatre (Asian & European)
Marathi Theatre
Acting Practical
Theatre Criticism Or
Aesthetics of Theatre
Participation in Department Production
Costume Plate/Makeup/ Production Process
M.Com.-Master of Commerce Commerce and Management
Management Concepts
Managerial Economics -I
E-Commerce
Advanced Accountancy-I
Advanced Banking-I
Organisational Behaviour
Managerial Economics -II
Communicate in English Confidently
Advanced Accountancy-II
Advanced Banking-II
Accounting Practices
Entrepreneurship
Practical Work – HCT 2.1/ 2.2
Practical/Field Work- SCT 2.1/ 2.2
Business Finance-I
Management Accounting-I
Technical English Communication Skills
Advanced Accountancy-III
Advanced Banking-III
Final Account
Office Management
Practical Work – HCT 3.2
PracticalWork- SCT 3.1/ 3.2
Business Finance-II
Management Accounting-II
International Business
Advanced Accountancy-IV
Advanced Banking-IV
Practical Work- HCT 4.2
Major Project
M.B.A.- Master of Business Administration Business Management
Principles & Practices of Management
Managerial Economics
Business law
Accounting for Management
Marketing Management
Product& Brand Management



Financial Management
Security Analysis and Portfolio Management
Human Resources Management
Training & Development
IT Management & Cyber Laws
System Analysis & Design
International Economics
International Financial System
Operations Management
Total Quality Management
Communication Enhancement
Information and Technology Skill
Organisational Behaviour
Research Methodology in Management
Statistics for Management
Consumer Behaviour
Digital Marketing
Management Accounting
Corporate Taxation
Performance & Talent Management
Competency Mapping
Software Quality Management
Cloud Computing
International Marketing
Import/Export Policies & Procedures
Materials And Purchase Management
Operations Strategy
Office Management-I
Employability Skills
Data Analysis Using Software Tools
Strategic Management
E-Business
Event Management
Fundamentals of Hospitality Management
Tourism and Travel Management
Banking Operations Management
Retail & Universal Banking
Principles and Practices of Life Insurance
Practice of General Insurance
Operations and Quality Management in Hospitals
Hospital Services Marketing
Entrepreneurship and Ethics
Perspectives on Startups
Introduction to Retailing
Retail Store & Operation Management
Indian Textile Industry
Yarn and Fabric Manufacturing



Agriculture and Indian Economy
Rural Development
Fundamentals of Econometrics
Mathematical Economics for Business
Office Management-II
Summer Internship Project
Major Project
Business Ethics & Corporate Governance
Environment Management
Corporate Social Responsibility
Accommodation Management
Facility and Security Management
E-Banking
Marketing of Financial Services
Corporate Insurance Management
Marketing of Insurance Services
HRM and Medical Audit
Risk And Disaster Management In Hospital
Management of Small Business
Corporate Entrepreneurship
Warehouse Management
Retail Selling Skill
Wet Processing and Garment Manufacturing Technology
Apparel and Garment Merchandising
Agricultural Marketing
ICT for Agriculture Management
Econometric Modelling and Business Analysis
Corporate Excellence
Computer Application Management
M.A-A.I.H.C & Archaeology
Ancient Indian Iconography
Prehistory of South Asia
Introduction to Archaeology
Practical/Field Work-I
Practical/ Field Work-II
Tutorial
History of Ancient India (650 A.D. to 1200 A.D.)
Methods in Archaeology
Protohistory of South Asia
Indian Tourism
Practical/ Field Work-I
Practical/ Field Work-II
Tutorial
Art and Architecture in Ancient India
Introduction to Ancient Indian Palaeography and Epigraphy- I
Research Methodology in Archaeology
Introduction to Museology



	Practical/ Field Work-I
	Practical/ Field Work-II
	Tutorial
	Rock cut & Temple Architecture in Ancient India
	Ancient Indian Palaeography and Epigraphy-II
	Ancient Indian Numismatics
	Philosophy and Religious Ideas in Ancient India
	Practical /Field Work
	Dissertation
	M.A.Rural Development
	Rural Economy of India
	Quantitative Techniques
	Rural Society in India
	Agri.Business
	Rural Development:Issues &Challenges
	Practical/ Field Work -I
	Practical/ Field Work - II
	Political Economy of Development 7
	Rural Development Programmes and Practices
	Computer Applications in Social Sciences
	Social Marketing
	Writing, Communication Skills and Current Affairs
	Practical/ Field Work - I
	Practical/ Field Work - II
	Qualitative Research Methods
	Sustainable Rural Livelihood
	Research Methods in Social Science
	Human Development
	Practical/ Field Work - I
	Practical/ Field Work - II
	Rural Non-Farm Sector and Entrepreneurship
	Human Rights and Development
	Internship
	Dissertation
	M.A Economics
	Micro Economic Analysis - I
	Quantitative Techniques for Economics – I
	Agricultural Economics
	Agri-Business
	Micro Economic Analysis - II
	Quantitative Techniques for Economics – II
	Computer Applications in Economics
	Indian Economy
	Public Economics
	Macro Economic Analysis
	Research Methods in Economics



	Monetary Economics
	Economics of Growth and Development
	Mathematical Economics
	Dissertation
	M.A Mass Communication
	Principles of Mass Communication
	Print Media
	Reporting and Editing
	Advertising and Public Relations
	Rural and Agricultural Journalism
	Practical / Field Work 1
	Practical / Field Work 2
	Media Management
	Media Law and Ethics
	Communicate in English Confidently
	Electronics Media (Radio and Television)
	New Media Application Open Elective (Any One)
	Writing and Communication Skills
	Environmental Communication
	Practical / Field Work 1
	Practical / Field Work 2 1 Internship / Tutorial
	Communication Research
	Development Communication
	Technical English Communication Skills.
	Radio Journalism and Production
	International Communication OET3.1 Film Studies
	Writing for Media 70
	Practical / Field Work 1
	Practical / Field Work 2
	Advertising and Social Marketing
	Corporate Communication and Event Management
	Online Journalism
	Women and Media
	Practical / Field Work 1
	Dissertation
	B. Voc. Journalism and Mass Communication
	Development communication
	Introduction to Television
	Introduction to Public Relations
	Writing for Television
	Internship
	Writing Developmental news and Stories
	Practical
	Translation of News and Articles
	Practical



Corporate Communication
Film Studies and Appreciation
Introduction to Advertising
Writing For PR & CC
Internship
Writing and production of Advertisements
Practical / field work
Event Management
Practical/ field Work
M. Sc. Geoinformatics
Geomorphology
Computer application in Earth Sciences
Introduction to GIS & GPS
Digital Image Processing
Spatial Analysis
Advanced Techniques I GIS
Dissertation
M. Sc. Environmental Sciences
Environmental Chemistry
Computer Applications
Introduction to geo-science
Biodiversity and conservation
water and wastewater engineering
Remote sensin & GIS in environmental science
Hydrology
Analytical techniques and instrumentation
oceanography and marine biology
environmental pollution
environmental biotechnology
Environmental Statistics
Meteorology
Environmental policy, acts, laws and environmental management system
Environmental toxicology and safety
Environmental Impact Assessment and environmental audit
Environmental geology and disaster management
M.Sc. Applied Geology
MINERALOGY AND OPTICS
SEDIMENTOLOGY AND PALAEONTOLOGY
STRUCTURAL GEOLOGY AND Morphotectonics
ECONOMIC GEOLOGY
HYDROGEOLOGY
GEOCHEMISTRY
MINERAL EXPLORATION
ENGINEERING GEOLOGY AND MINING GEOLOGY
REMOTE SENSING AND GIS
ENVIRONMENTAL GEOLOGY AND DISASTER MANAGEMNT



	FUEL GEOLOGY AND RESOURCES MANAGENT
	Mineralogy and Optics
	Geochemistry
	Sedimentology and Palaeontology
	Economic Geology
	Hydrogeology
	Geotechnical Engineering
	Watershed Management
	MINERAL EXPLORATION
	ENGINEERING GEOLOGY AND MINING GEOLOGY
	REMOTE SENSING AND GIS
	ENVIRONMENTAL GEOLOGY AND DISASTER MANAGEMNT
	FUEL GEOLOGY AND RESOURCES MANAGENT
	Mineralogy and Optics
	Geochemistry
	Sedimentology and Palaeontology
	Economic Geology
	Hydrogeology
	Geotechnical Engineering
	Watershed Management
	Mineral Exploration
	Engineering Geology and Mining Geology
	Geoarchaeology
	Practical OEP3.2
	Environmental Geology and Disaster Management
	Remote Sensing and GIS
	Fuel Geology
	Dissertation
	Gemmology
	Mineralogy and Optics
	Geochemistry
	Sedimentology and Palaeontology
	Economic Geology
	Hydrogeology
	Geotechnical Engineering
	Watershed Management
	Mineral Exploration
	Engineering Geology and Mining Geology
	Geoarchaeology
	Environmental Geology and Disaster Management
	Remote Sensing and GIS
	Fuel Geology
	Dissertation
	Gemmology



Mineralogy and Optics
Geochemistry
Sedimentology and Palaeontology
Economic Geology
Hydrogeology
Geotechnical Engineering
Watershed Management
Mineral Exploration
Engineering Geology and Mining Geology (2:2)
Geoarchaeology
Environmental Geology and Disaster Management
Remote Sensing and GIS
Fuel Geology
Dissertation
Gemmology
Post Graduate Diploma in Dietetics and Nutrition
Nutrition and Dietetics I
Nutritional Biochemistry
Human Physiology
Research Methodology
Nutrition and Dietetics II
Food Science & Food Microbiology
Food Service Management and Community Nutrition
Sports Nutrition
M.A. Marathi
मराठी भाषा: संवाद व उपयोजन भाग एक II
मराठी भाषा: संवाद व उपयोजन भाग एक II
पेपर 12 ऐच्छिक अभ्यासपत्रिका मराठी भाषिक कौशल्य
M.A. Hindi
Paper-III प्रयोजनमूलक हिंदी
Paper-IV Elective-I व्यावसायिक वर्ग : पत्रकारिता
Paper-VII प्रयोजनमूलक हिंदी
Paper-VIII Elective-I व्यावसायिक वर्ग : पत्रकारिता
Paper-XII Elective- अनुवाद :सिद्धांत और प्रयोग
Paper-XVI Elective-A अनुवाद :सिद्धांत और प्रयोग
M.A. English
Paper-III Introduction to Language and Linguistics
Paper-VII Introduction to Language and Linguistics
Paper-XII Elective-A Translation Studies
Paper-XVI Elective-A Translation Studies
M.A. Urdu
Paper-VIII Urdu Sahafat aur Fanne Tarjuma Nigari
Paper-VIII Urdu Sahafat aur Fanne Tarjuma Nigari
M.A. Sanskrit
Paper-IV Elective- Ayurved
Paper- Anuvad Sambhashan Koushlyam



	M.A. Pali
	Paper-II- Pali Grammar - I
	Paper-VI- Pali Grammar - II
	Paper-VIII Elective-I Buddhist Culture
	M.A. Kannada
	Paper-XI Dravidian Kannada linguistics
	Paper-XVI study of translation




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