

GOVT. HOLKAR (MODEL, AUTONOMOUS) SCIENCE COLLEGE INDORE

Program Outcome

Prepare students for prominent career in industry, banks, offices and for further academic study

Program Specific Outcome

Create, select and apply appropriate techniques, resources and modern technology in multi-disciplinary environment

Course out comes (u.g.)

2016-17				
Subject	Subject Code	Course Name	Course	Course out comes
Bio Chemistry	101	Biomolecules	1011	student will understand the basic concepts of Biomolecules
		Biophysiccal & Biochemical tch	1012	student will understand the basic concepts of Biophysiccal & Biochemical tch
		Enzymology	2011	student will understand the basic concepts of Enzymology
		Intermediary metabolism	2012	student will understand the basic concepts of Intermediary metabolism
		Molecular Biology	3011	student will understand the basic concepts of Molecular Biology
		Nutrional,clinical amd Environmental Biochemistry	3012	student will understand the basic concepts of Nutrional,clinical amd Environmental Biochemistry
Bioinformatics	102	Introduction to Bioinformatics	1021	student will understand the basic concepts of Introduction to Bioinformatics
		concept of Bioinformatics	1022	student will understand the basic concepts of concept of Bioinformatics
		Introduction to Computer & Programming	2021	student will understand the basic concepts of Introduction to Computer & Programming
		Structural Bioinformatics	2022	student will understand the basic concepts of Structural Bioinformatics
		Biostatistics	3021	student will understand the basic concepts of Biostatistics
		Mathematics for Biological Sciences	3022	student will understand the basic concepts of Mathematics for Biological Sciences
		Cell Structure and Biolgy	1031	student will understand the basic concepts of Cell Structure and Biolgy
		Microbiolgy	1032	student will understand the basic concepts of Microbiolgy
		Biophysics and Biochemistry	2031	student will understand the basic concepts of Biophysics and Biochemistry

Biotechnology	103	Bioinstrumentations ,Biostaistics and Bioinformatics	2032	student will understand the basic conepts of Bioinstrumentations ,Biostaistics and Bioinformatics
		Molecular Biology and GEneticEngineering	3031	student will understand the basic conepts of Molecular Biology and GEneticEngineering
		Applied Biotechnology	3032	student will understand the basic conepts of Applied Biotechnology
Botany	104	Diversity of Lower Plants	1041	student will understand the basic conepts of Diversity of Lower Plants
		Diversity of Higher Plants	1042	student will understand the basic conepts of Diversity of Higher Plants
		Taxonomy & Embryology of Angiosperm	2041	student will understand the basic conepts of Taxonomy & Embryology of Angiosperm
		Plant Ecology Biodiversity & Phytogeography	2042	student will understand the basic conepts of Plant Ecology Biodiversity & Phytogeography
		Plant Physiology & Biochemistry	3041	student will understand the basic conepts of Plant Physiology & Biochemistry
		Cell Biology Genetics & Biotechnology	3042	student will understand the basic conepts of Cell Biology Genetics & Biotechnology
Chemistry	105	physical chemistry	1051	student will understand the basic conepts of
		inorganic chemistry	1052	student will understand the basic conepts of physical chemistry
		organic chemistry	1053	student will understand the basic conepts of inorganic chemistry
		physical chemistry	2051	student will understand the basic conepts of organic chemistry
		inorganic chemistry	2052	student will understand the basic conepts of physical chemistry
		organic chemistry	2053	student will understand the basic conepts of inorganic chemistry
		physical chemistry	3051	student will understand the basic conepts of organic chemistry
		inorganic chemistry	3052	student will understand the basic conepts of physical chemistry

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		organic chemistry	3053	student will understand the basic concepts of inorganic chemistry
Computer Science	106	Fundamentals of Computer	1061	student will understand the basic concepts of Fundamentals of Computer
		Programming in C	1062	student will understand the basic concepts of Programming in C
		Object Oriented Programming concept using C++	2061	student will understand the basic concepts of Object Oriented Programming concept using C++
		Data Structure	2062	student will understand the basic concepts of Data Structure
		Database Management System	3061	student will understand the basic concepts of Database Management System
		Operating system concepts	3062	student will understand the basic concepts of Operating system concepts
Electronics	107	Basics of Semiconductors & Devices	1071	student will understand the basic concepts of Basics of Semiconductors & Devices
		Electronics Circuit & Fundamentals of Digital Electronics	1072	student will understand the basic concepts of Electronics Circuit & Fundamentals of Digital Electronics
		Digital Electronics and Microprocessor	2071	student will understand the basic concepts of Digital Electronics and Microprocessor
		Operational Amplifier & Instrumentations	2072	student will understand the basic concepts of Operational Amplifier & Instrumentations
		Thyristors, IC technology, Microprocessor & Electrical Motors	3071	student will understand the basic concepts of Thyristors, IC technology, Microprocessor & Electrical Motors
		Communication Electronics	3072	student will understand the basic concepts of Communication Electronics
Geology	111	Geodynamics and Geomorphology	1111	student will understand the basic concepts of Geodynamics and Geomorphology
		Crystallography and Mineralogy	1112	student will understand the basic concepts of Crystallography and Mineralogy
		Petrology	2111	student will understand the basic concepts of Petrology
		Structural Geology	2112	student will understand the basic concepts of Structural Geology
		Palaeontology and Stratigraphy	3111	student will understand the basic concepts of Palaeontology and Stratigraphy

		Earth Resources and Applied Geology	3112	student will understand the basic concepts of Earth Resources and Applied Geology
Horticulture	112	Basic of Horticulture	1121	student will understand the basic concepts of Basic of Horticulture
		Fruit and Vegetable Production	1122	student will understand the basic concepts of Fruit and Vegetable Production
		Establishment & management of orchard and nursery	2121	student will understand the basic concepts of Establishment & management of orchard and nursery
		Farming Systems in Horticulture	2122	student will understand the basic concepts of Farming Systems in Horticulture
		Soil Productivity * Agro Forestry	3121	student will understand the basic concepts of Soil Productivity * Agro Forestry
		Processing of Horticultural Crops & Value addition	3122	student will understand the basic concepts of Processing of Horticultural Crops & Value addition
Fishery	113	Fish biology	1131	student will understand the basic concepts of Fish biology
		Capture Fisheries	1132	student will understand the basic concepts of Capture Fisheries
		Aquaculture, Fish Diseases & pwan Culture	2131	student will understand the basic concepts of Aquaculture, Fish Diseases & pwan Culture
		Aquarium Fishes, Ichthyology & Postharvest techniques	2132	student will understand the basic concepts of Aquarium Fishes, Ichthyology & Postharvest techniques
		Fishery Economics & Extension Education	3131	student will understand the basic concepts of Fishery Economics & Extension Education
		Limnology and Fish Productivity	3132	student will understand the basic concepts of Limnology and Fish Productivity
Mathematics	114	Algebra and Trigonometry	1141	student will understand the basic concepts of Algebra and Trigonometry
		Calculus and Differential Equation	1142	student will understand the basic concepts of Calculus and Differential Equation
		Vector Analysis and Geometry	1143	student will understand the basic concepts of Vector Analysis and Geometry
		Abstract Algebra	2141	student will understand the basic concepts of Abstract Algebra
		Advanced calculus	2142	student will understand the basic concepts of Advanced calculus

		Differential Equation	2143	student will understand the basic concepts of Differential Equation
		Linear Algebra& numerical analysis	3141	student will understand the basic concepts of Linear Algebra& numerical analysis
		Real and Complex Analysis	3142	student will understand the basic concepts of Real and Complex Analysis
			3143	
Micro biology	115	General Microbiology& Cell biology	1151	student will understand the basic concepts of General Microbiology& Cell biology
		Tools & Techniques in microbiology	1152	student will understand the basic concepts of Tools & Techniques in microbiology
		Biochemistry & Microbial Physiology	2151	student will understand the basic concepts of Biochemistry & Microbial Physiology
		Microbial Genetics & Molecular Biology	2152	student will understand the basic concepts of Microbial Genetics & Molecular Biology
		Applied & Environment Microbiology	3151	student will understand the basic concepts of Applied & Environment Microbiology
		Immunology & Medical Microbiology	3152	student will understand the basic concepts of Immunology & Medical Microbiology
Pharmaceutical Chemistry	116	Pharmaceutical organic chemistry	1161	student will understand the basic concepts of Pharmaceutical organic chemistry
		Inorganic & Pharmaceutical analysis	1162	student will understand the basic concepts of Inorganic & Pharmaceutical analysis
		Medical Chemistry -I	2161	student will understand the basic concepts of Medical Chemistry -I
		Chemistry of Natural Products	2162	student will understand the basic concepts of Chemistry of Natural Products
		Medical Chemistry -II	3161	student will understand the basic concepts of Medical Chemistry -II
		Instrumental Analysis	3162	student will understand the basic concepts of Instrumental Analysis

Physics	117	Mathematical physics, Mechanics & Properties of matter	1171	student will understand the basic concepts of Mathematical physics, Mechanics & Properties of matter
		Thermodynamics and Statistical Physics	1172	student will understand the basic concepts of Thermodynamics and Statistical Physics
		Optics	2171	student will understand the basic concepts of Optics
		Electrostatics, Magneto Statics Electrostatics	2172	student will understand the basic concepts of Electrostatics, Magneto Statics Electrostatics
		Quantum Mechanics & Spectroscopy	3171	student will understand the basic concepts of Quantum Mechanics & Spectroscopy
		Solid state Physics, Semiconductor	3172	student will understand the basic concepts of Solid state Physics, Semiconductor
Seed technology	118	Principal of Seed Technology	1181	student will understand the basic concepts of Principal of Seed Technology
		Seed Production and practices	1182	student will understand the basic concepts of Seed Production and practices
		Plant Breeding	2181	student will understand the basic concepts of Plant Breeding
		Seed Testing and Quality Control	2182	student will understand the basic concepts of Seed Testing and Quality Control
		Seed Pathology and Entomology	3181	student will understand the basic concepts of Seed Pathology and Entomology
		Seed Processing, Storage and Marketing	3182	student will understand the basic concepts of Seed Processing, Storage and Marketing
Statistics	119	Statistical Methods	1191	student will understand the basic concepts of Statistical Methods
		Probability & Probability Distribution	1192	student will understand the basic concepts of Probability & Probability Distribution
		Statistical Inference	2191	student will understand the basic concepts of Statistical Inference
		Sampling Technique	2192	student will understand the basic concepts of Sampling Technique
		Applied Statistics	3191	student will understand the basic concepts of Applied Statistics
		SQC & Design of Experiments	3192	student will understand the basic concepts of SQC & Design of Experiments

Zoology	120	Invertebrate	1201	student will understand the basic concepts of Invertebrate
		Cell Biology and Developmental Biology	1202	student will understand the basic concepts of Cell Biology and Developmental Biology
		Vertebrates & Evolution	2201	student will understand the basic concepts of Vertebrates & Evolution
		Animal Physiology & Bio-Chemistry	2202	student will understand the basic concepts of Animal Physiology & Bio-Chemistry
		Genetics	3201	student will understand the basic concepts of Genetics
		Ecology and Applied Zoology	3202	student will understand the basic concepts of Ecology and Applied Zoology
Economics	121	Micro Economics	1211	student will understand the basic concepts of Micro Economics
		Indian Economy	1212	student will understand the basic concepts of Indian Economy
		Macro Economics	2211	student will understand the basic concepts of Macro Economics
		Public Finance & International Economics	2212	student will understand the basic concepts of Public Finance & International Economics
		Development & Environment Economics	3211	student will understand the basic concepts of Development & Environment Economics
		Statistics	3212	student will understand the basic concepts of Statistics
Forensic	122	Basics of Forensic Science	1221	student will understand the basic concepts of Basics of Forensic Science
		Evidences and Police Organizations	1222	student will understand the basic concepts of Evidences and Police Organizations
		Finger Prints, Documents and Other Impressions	2221	student will understand the basic concepts of Finger Prints, Documents and Other Impressions
		Criminalistics	2222	student will understand the basic concepts of Criminalistics
		Forensic Biology, Serology and Medicine	3221	student will understand the basic concepts of Forensic Biology, Serology and Medicine
		Forensic Toxicology and Drug of Abuse	3222	student will understand the basic concepts of Forensic Toxicology and Drug of Abuse
		Physical Geography (Lithosphere)	1231	student will understand the basic concepts of Physical Geography (Lithosphere)
		Introduction to Geography & Human Geography	1232	student will understand the basic concepts of Introduction to Geography & Human Geography

Geography	123	Physical Geography (Atmosphere and Hydrosphere)	2231	student will understand the basic concepts of Physical Geography (Atmosphere and Hydrosphere)
		Economic Geography	2232	student will understand the basic concepts of Economic Geography
		Geography of India	3231	student will understand the basic concepts of Geography of India
		Environment and Resource Management	3232	student will understand the basic concepts of Environment and Resource Management

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(Rajiv)
for प्राचार्य
शा. होलकर विज्ञान महाविद्यालय
इन्दौर

P.G.

Programmed Offered	Subjects	Program Outcome	Program Specific Outcome	Course Outcome
M.Sc.	M.Sc.-Bio Chemistry	<p>Attained profound expertise in Discipline</p> <p>Attain ability to exercise research intelligence in investigation</p> <p>Incorporated self-directed and lifelong learning</p>	<p>Provide basic foundations with a sound knowledge of underlying principles along with recent developments</p> <p>Enable students to work with state-of-the-art technologies</p> <p>Ability to plan and execute their own innovative ideas in the form of projects, product design and development</p>	<p>Understand the principles of various theory.</p> <p>Able to analyze and interpret data so as to reach to a valid conclusions</p>
	M.Sc.-Bio Technology			
	M.Sc. – Botany			
	M.Sc. – Chemistry			
	M.Sc.- Computer Sc.			
	M.Sc. – Fisheries			
	M.Sc. – Forensic Sc.			
	M.Sc. – Geology			
	M.Sc. – Mathematics			
	M.Sc. – Microbiology			
	M.Sc.-Pharma. Chem.			
	M.Sc. – Physics			
	M.Sc. – Statistics			
	M.Sc. – Zoology			


 प्राचार्य
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