



ज्ञानं परमं वलम्



GOVT. MADHAV SCIENCE COLLEGE, UJJAIN

A GRADE ACCREDITED THROUGH NAAC

DST-FIST SUPPORTED

AFFILIATED TO VIKRAM UNIVERSITY UJJAIN

IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN



Courses Addressing the cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum.

S. No.	Name of Programme	Papers	Issue Addressed
1.	M.Sc. Chemistry	1. Environmental Chemistry	Environment and Sustainability
2.	M.Sc. Zoology	1. Environmental Limiting Factors 2. Environmental Sustainability Development 3. Environmental Monitoring and Impact Assessment	Environment and Sustainability
3.	M.Sc. Microbiology	1. Biosafety , Bioethics and Other Issues (I) 2. Biosafety , Bioethics and Other Issues (II)	Environment and Sustainability
4.	M.Sc. Drugs and Pharmaceutical Chemistry	1. Introduction to pharmacy , Drug Regulatory Act, Intellectual Property Right Paper101	Human Values and Professional Ethics
5.	M.Sc. Botany	1. Ecology and Environment 2. Ecosystem Development and sustainability 3. Utilization & Conservation of Plant Resources	Environment and Sustainability
6.	B.Sc. Biotechnology	1. Environmental Biotechnology	Environment and Sustainability
7.	B.Sc. Botany	1. Diversity of Lower Plants 2. Diversity of Higher Plants	Environment and Sustainability
8.	B.Sc. Foundation Courses	1. Hindi Language and Moral Values 2. English Language 3. Entrepreneurship Development	Human Values and Professional Ethics
9.	Ph. D. Programme	1. Synthesis and Characterization of Nano Structured Phorocatalyst	Environment and Sustainability



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		<p>ZnO and Its Application in Complete Mineralization of Calmagite, Xylenol Orange, Fast Green, Perarosaniline, Azure A, And Brilliant Cresyl Blue Dyes Using Visible Light</p> <p>2. Photocatalytic Degradation of Calmagite, Orange II, Toludine Blue , Azure B and Methylene Violet Dyes in Presence of Solar Light Utilizing as-prepared NANO BiOCl.</p> <p>3. Synthesis, Characterization and Application of Nanostructured ZnO for the Photocatalytic Degradation of Malachite Green, Methylene Green, Direct Blue –I, Orange II, Acridine Orange and Neutral Red Dyes in the Presence of Visible Light.</p> <p>4. Solar Light Assisted Photocatalytic Degradation of methomy. Oxamyl, Carbofuran. Carbaryl and Propoxur Pesticides Using Flower like Nano BiOCl.</p>	
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Session 2015-16

Scheme of Marks

M.Sc. Chemistry

SEMESTER-III

Paper	Comp/Opt	Paper Title	Code	Max.Marks
I	Compulsory	APPLICATION OF SPECTROSCOPY-I	MCH-501	40+10 (CCE)=50
II	Compulsory	PHOTOCHEMISTRY	MCH-502	40+10 (CCE)=50
III	Compulsory	ENVIRONMENTAL CHEMISTRY	MCH-503	40+10 (CCE)=50
IV	Optional -I Optional -II	ANY TWO	MCH-504-508	40+10 (CCE)=50
V		Organotransition Metal Chemistry Polymers Heterocyclic Chemistry Physical Organic Chemistry Chemistry of Materials		40+10 (CCE)=50
Practical		Inorganic Organic Physical	33 33 34	100
			Grand Total	350

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Department of Higher Education, Govt. of M.P.
Post Graduate Semester wise Syllabus
as recommended by Central Board of Studies and approved by the Governor of M.P.

उच्च शिक्षा विभाग, म.प्र. शासन
स्नातकोत्तर कक्षाओं के लिये सेमेस्टर अनुसार पाठ्यक्रम
केंद्रीय अध्ययन मण्डल द्वारा अनुमोदित तथा म. प्र. के राज्यपाल द्वारा अनुमोदित

Session - 2010-2011

Theory / Practical

Session	2010-2011	
Class	M.Sc.	
Semester	IV	
Subject	(English) वैज्ञानिक	Zoology
Paper	IV(d) (Optional)	
Title of the paper	(English) वैज्ञानिक	Environment & Biodiversity Conservation
Medium of instructions (Teaching)	English / वैज्ञानिक / Both इनकुड	
Question Paper Language	English / वैज्ञानिक / Both इनकुड	
Max. Marks		

Unit		Syllabus	Periods
Unit I	(English)	<ul style="list-style-type: none"> Basic concept of Environmental Biology Scope and Environmental Science Biosphere and Biogeochemical cycles. Environmental monitoring and impact assessment. Environmental and sustainable development. Water conservation, rain water harvesting, water shed management. 	
Unit II	(English)	<ul style="list-style-type: none"> Cause, effects and remedial measure of Air pollution, Water pollution. Noise, radioactive and thermal pollution. Agriculture pollution Basic concepts of Bioaccumulation. Solid waste management. 	
Unit III	(English)	Global warming and disaster management <ul style="list-style-type: none"> Cause of global warming Impact of global warming – acid rains and ozone depletion, green house effect. Control measures of global warming (a) Afforestation (b) reduction in the use of CFCS 	

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Signature
M. Paula



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Department of Higher education, Govt. of M.P.
Semester wise Syllabus for Postgraduates
As recommended by Central board of Studies and
Approved by HE the Governor of M.P.
Session : 08-09

M. Sc. Previous
Zoology
Semester II
Paper II

Population Ecology and Environmental physiology

Unit I

1. Populations and their characters.
2. Demography : Life tables, generation time, reproductive value.
3. Population growth: Growth of organisms with non-overlapping generations, stochastic and time lag models of population growth, stable age distribution.
4. Population regulation: Extrinsic and intrinsic mechanisms.

Unit II

1. Adaptations : Levels of adaptations, significance of body size.
2. Aquatic environments : Fresh water, marine, shores and estuarine environments.
3. Eco-physiological adaptations to fresh water environments.
4. Eco-physiological adaptations to marine environments.
5. Eco-physiological adaptations to terrestrial environments.

Unit III

1. Environmental limiting factors.
2. Inter and intra-specific relationship.
3. Predatory- prey relationship, predator dynamics, optimal foraging theory (patch choice, diet choice, prey selectivity, foraging time).
4. Mutualism, evolution of plant pollinator interaction.

Unit IV

Environmental pollution and human health.

1. Conservation management of natural resources.
2. Environmental impact assessment.
3. Sustainable development.



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M.Sc. Semester IV (II year)

PAPER:II Applied Microbiology

(MM-40)

UNIT: 1 Forensic Microbiology

1. Forensic Science: Recent Advances & Modern Trends Introduction & working of various Wings of Forensic Science Laboratory. Immunology, Examination of Biological Trace material Evidence. Ballistics Identification. Crime Laboratory, Forensic Photography.
2. DNA & Finger Print System, Lie Detector & Polygraph, Norco-analysis (Basics). National Health policies. Injury, Inflammation, Repair, Thrombus-Embolism, Shock, Gross.
3. Microscopic Appearances of Vital Organs and histopathology in cases of sudden death e.g. Myocardial infarctions and other related diseases e. g, which can cause sudden death by complications e.g. tuberculosis, renal failure etc.& Endocrines Important Staining techniques, Insulin, Observation-Collection-Preservation & Forwarding of Pathological & Microbial Evidence.

UNIT: 2 Nano-Technology (Basics)

1. Introduction to Bio-macromolecules: The modern concepts to describe the conformation and dynamics of biological macromolecules: scattering techniques, micromanipulation techniques, drug delivery applications etc.
2. Chemical, physical and biological properties of biomaterials (Proteins, DNA and polysaccharides) and bio-response: bio-mineralization.
3. Nanoparticulate carrier systems: Micro- and Nano-fluidics; Drug and gene delivery system; Microfabrication, Biosensors, Chip technologies, Nano- imaging, Metabolic engineering and Gene therapy.

UNIT: 3 Biosafety, Bioethics, and other issue (I)

1. Introduction to Bioethics and Biosafety, Human Genome Project and its Ethical Issues. Molecular Detection of Pre-Symptomatic Genetic Diseases and its Importance in Healthcare. Prenatal Diagnosis, Genetic Manipulations and their Ethical Issues.
2. Biosafety Guidelines and Regulations. Legal and Socio-economic Impacts of Biotechnology. Use of Genetically Modified Organisms and their Release in the Environment. Hazardous Materials used in Biotechnology their Handling and Disposal. Good Laboratory Practice (GLP) and Good Manufacturing Practice (GMP). Public Education of Producing Transgenic Organisms.

UNIT: 4 Biosafety, Bioethics, and other issue (II)

1. Intellectual Property Rights and Agricultural Technology, and their Implications for India and other Developing Countries. International Organizations and Intellectual Property Rights. Introduction to Patent and Process Involved in Patenting. Patenting Living Organisms. Traditional Knowledge, Commercial Exploitation, and Protection.
2. Bioethics in Biodiversity and Resource Management. Ethical Issues in Genetically Modified Organisms: Foods and Crops. Labeling of Genetically Modified Food and Crops. Stem Cell Research, Ethical Issues Involved in Stem Cell Research and Use. Use of Animals in Research and Testing, and Alternatives for Animals in Research.

UNIT: 5 Mushroom, Vermicompost and Biofertilizer

1. Mushroom Cultivation
2. Vermicomposting
3. Biofertilizer



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Department of Higher Education, Govt. of M.P.

Post graduate semester wise syllabus

As recommended by Central Board of studies and approved by the governor of M. P.

उच्च शिक्षा विभाग, मध्यप्रदेश शासन

स्नातकोत्तर कक्षाओं के लिए सेमेस्टर अनुसार पाठ्यक्रम

केन्द्रीय अध्ययन मण्डल द्वारा अनुशंसित तथा म. प्र. के राज्यपाल द्वारा अनुमोदित

Session (सत्र) – 2015-16

Scheme of Marks

M. Sc. Drugs and Pharmaceutical Chemistry

SEMESTER- I

Paper	Comp/ Opt	Paper Title	Code (MCH)	Max. Marks
I	Compulsory	Introduction to Pharmacy, Drug Regulatory Act, Intellectual Property Rights	PC-101	40+10 (CCE) = 50
II	Compulsory	Pharmaceutical Chemistry & Biochemistry	PC-102	40+10 (CCE) = 50
III	Compulsory	Principles of Organic Pharmaceutical Chemistry	PC-103	40+10 (CCE) = 50
IV	Compulsory	Principles of Physical Pharmacy –I	PC-104	40+10 (CCE) = 50
V	Optional- 1	Mathematics and statistics for chemists (for biology background students)	PC -105 (a)	40+10 (CCE) = 50
VI	Optional- 2	Biology for chemists (for mathematics background students)	PC -105 (b)	40+10 (CCE) = 50
		PRACTICAL 1.		50
		PRACTICAL 2.		50
		TOTAL		400

M. Sc. Drugs and Pharmaceutical Chemistry

SEMESTER- II 2016 - 17

Paper	Comp/ Opt	Paper Title	Code (MCH)	Max. Marks
I	Compulsory	Principles of Inorganic Pharmaceutical Chemistry –I	PC-201	40+10 (CCE) = 50
II	Compulsory	Pharmaceutical Analysis –I	PC-202	40+10 (CCE) = 50
III	Compulsory	Pharmaceutical Analysis – II	PC -203	40+10 (CCE) = 50
IV	Compulsory	Principles of Physical Pharmacy –II	PC-204	40+10 (CCE) = 50
V	Optional- 1	Computers for Chemists	PC -205	40+10 (CCE) = 50
		PRACTICAL 1.		50
		PRACTICAL 2.		50
		TOTAL		400

13/11/15 → 13/11/15 → 13/11/15 → 13/11/15 → 13/11/15



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Department of Higher Education, Govt. of M.P.
Semester wise syllabus for Postgraduates
As recommended by Central Board of Studies and
Approved by H.E. the Governor of M.P.
Session 2008-09

M. Sc. Botany (Semester System)

First Semester
Course PG 104: Plant Ecology

UNIT I: **Population Ecology:** Ecology & ecosystem: Definitions, Organization and components, Population & Environment; Population ecology, density & distribution, Natality, Mortality, Survivorship curves, Age structure & pyramids; Fecundity schedules, Life tables; Population growth – exponential and logistic curves; Intra specific competition and self regulation; r-and k-strategists.

UNIT II: **Community organization:** Concepts of community and continuum; Analysis of community analytical and synthetic characters, Community coefficients and indices of diversity, interspecific association negative and positive associations; Concept of ecological niche; Concepts of biodiversity; evolution and differentiation of species – allopatric & sympatric speciation; ecads and ecotypes.

UNIT III: **Ecosystem development and stability:** Temporal changes cyclic and non cyclic; Succession processes & types; Mechanism of succession facilitation, Tolerance and inhibition models; Concept of climax persistence resilience and resistance; Ecological perturbation natural and anthropogenic, Ecosystem restoration.

UNIT IV: **Fate of energy in ecosystems:** Trophic organization and structure, Food chains & webs; energy flow pathways, Ecological efficiencies consumption, assimilation and production trophic; Primary production methods of measurement, Global patterns, Limiting factors.

UNIT V: **Fate of matter in ecosystems:** Recycling pathways; Relationship between energy flow and recycling pathways; Nutrient exchange and cycling; Global biogeochemical cycles of C, N, P and S; Physical, chemical and Biological characteristics of soil.

Suggested Readings

- Smith. R.L. 1996. Ecology and Field Biology. Harper Collins. New York.
Muller-Dombois. D. and Ellenberg. H. 1974. Aims and Methods of Vegetation Ecology, Wiley, New York
Begon. M., Harper, J.L. and Townsend, C.R. 1996. Ecology. Blackwell Science. Cambridge.
Ludwig. J. and Reynolds. J.F. 1988. Statistical Ecology. John Wiley & Sons.
Odum. E.P. 1971. Fundamentals of Ecology. Saunders, Philadelphia.
Odum, E.P. 1983. Basic Ecology. Saunders, Philadelphia.
Barbour, M.G., Burk, J.H. and Pitts, W.O. 1987. Terrestrial Plant Ecology. Cummings Publication Company, California.
Kormondy, E.J. 1996. Concepts of Ecology. Prentice-Hall of India Pvt. Ltd., New Delhi.
Chapman, J.L. and Reiss, M.J. 1988. Ecology: Principles and Applications. Cambridge University Press, Cambridge, U.K.
Moldan, B. and Billharz, S. 1997. Sustainability Indicators. John Wiley & Sons, New York.



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Review
8/12/11
B.O.S.

Vikram University, Ujjain

M. Sc. Botany IV Semester (403)

Syllabus

Elective Paper : Environmental Science

UNIT-1 ECOLOGY and ENVIRONMENT : History and scope of ecology, autecology, synecology, population, community, biome. Distinguishing characters of forests, grasslands, arid lands and wetlands; community organisation – concept of habitat, key stone species, dominant species. Species diversity and measurement of diversity. Biological communities and ecosystem. Bioclement cycling.

UNIT-2 NATURAL ENVIRONMENTAL RESOURCES AND CONSERVATION : Forest Resources- Forest Types of India, deforestation and its effects; Water Resources- Indian water resources. hydrological cycle, surface water, ground water, World water resources, distribution; Food Resources; Conservation of natural resources and environmental management.

UNIT-3 CURRENT ENVIRONMENTAL ISSUES : Climate change- Global Warming, Greenhouse Effect and Global Ozone Problems, Acid Rain, Atmosphere Turbidity and Nuclear Winter, Global Carbon Dioxide-rise and impact on Biosphere; Air, water and noise Pollution; Radiation hazards and environmental degradation.

UNIT-4 ENERGY PRODUCTION AND MANAGEMENT : Introduction, Energy Production and Consumption, sources of energy, Non-Conventional and Biological Energy; use of wastes and energy use pattern in India; Future energy scenario of the World Nuclear energy and the risks

UNIT-5 ENVIRONMENTAL BIOTECHNOLOGY : Basic techniques in genetic engineering: Nucleic acid hybridisation and polymerase chain reaction as sensitive detection methods. Use of micro-organisms like thermophiles, alkalophiles; acidophiles, halophiles and psychrophiles in waste treatment and methane production; production of enzymes like cellulase, proteases, amylases; alcohol and acetic acid production.



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Semester wise syllabus for Postgraduates
As recommended by Central Board of Studies and
Approved by H.E. the Governor of M.P.
Session 2008-09

M. Sc. Botany (Semester System)

Second Semester

Course PG 203: Utilization & Conservation of Plant Resources

- PD UNIT I: **Plant Biodiversity:** Major Biomes of the world, Tropical rain & Seasonal Forests, Temperate rain & Seasonal forests, Boreal forests, Grasslands, Deserts; Aquatic Ecosystems, wetlands, Lakes & Ponds Streams & Rivers, Marine & Estuarine habitats.
- UNIT II: **Sustainable Development:** Resource utilization; Status & Utilization of Biodiversity; Sustainable development and utilization of resources from forest, Grassland and aquatic habitats; Food forage, Fodder, Timber & Non-wood forest products; Threats to quality & quantity of Resources due to overexploitation.
- UNIT III: **Strategies for conservation of resources:** Classifications of resources; Principles of conservation; *In-situ* conservation, sanctuaries, National parks, Biosphere reserves for wildlife conservation; Habitat conservation practices of conservation for forests, ranges, soil and water; Ex-situ conservation, botanical gardens, field gene banks, seed banks, in vitro repositories, cryo-banks.
- UNIT IV: **Pollution & Climate Change:** Air, Water and Soil pollution, Kinds, Sources, Quality parameters, Effects on structure & function of ecosystems; Management of pollution; Bioremediation; Climate changes sources, Trends & role of greenhouse gases, Effect of global warming on climate, Ecosystem processes & Biodiversity; Ozone layer & Ozone hole.
- UNIT V: **Resource monitoring:** Remote sensing concepts & Tools, Satellite remote sensing basics sensors, Visual & digital interpretation, EMR bands and their applications; Indian remote sensing program; Thematic mapping of resources; Application of remote sensing in Ecology & Forestry.

Suggested Readings

- Moldan, B. and Billharz, S. 1997. Sustainability Indicators. John Wiley & Sons, New York.
- Treshow, M. 1985. Air Pollution and Plant Life. Wiley Interscience.
- Heywood, V.H. and Watson, R.T. 1995. Global Biodiversity Assessment. Cambridge University Press.
- Mason, C.F. 1991. Biology of Freshwater Pollution. Longman.
- Hill, M.K. 1997. Understanding Environmental Pollution. Cambridge University Press.
- Brady, N.C. 1990. The Nature and Properties of Soils. MacMillan.
- Kothari, A. 1997. Understanding Biodiversity: Life/Sustainability and Equity. Orient Longman.
- Kohli, R., Arya, K.S., Singh, P.H. and Dhillon, H.S. 1994. Tree Directory of Chandigarh. Lovedale Educational, New Delhi.
- Nair, M.N.B. et. al (Eds) 1998. Sustainable Management of Non-wood Forest Products. Faculty of Forestry, Universiti Putra Malaysia. 434004 PM Serdang, Selangor, Malaysia.



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B.Sc. Biotechnology ^{III yr}
Annual Examination Pattern - 2019-2020 (13)

Types of fermentors- Fluidized, Packed Bed, Air lift Fermentor, Tray Fermentor and Tower Fermentor.

Unit-V: Environment Biotechnology

Environment: Basic concept, Significance, Public awareness, Environmental pollution, Assessment of water quality, Treatment of waste-water - Primary, secondary and tertiary treatment. Solid waste management (composting, vermi-composting, methane production). Biopesticides- Bacterial and Fungal, Genetically modified crops, Biofertilizers - Nitrogen fixers, PSB, Mycorrhiza and VAM, Microbial leaching, Microbial Enhanced Oil Recovery. Bioremediation and Biodeterioration. Modern fuels- Methanogenic bacteria and biogas, microbial hydrogen production.

P.K. Singh
P.K. Singh

Dr. Anil Kumar
Dr. Anil Kumar

Dr. D.S. Rathore
Dr. D.S. Rathore

Dr. Anjali Choudhary
Dr. Anjali Choudhary

Dr. Rajini Kulkarni
Dr. Rajini Kulkarni

Dr. Deepa Rathi
Dr. Deepa Rathi

H.S. Rathore
Prof Dr. H.S.RATHORE
DEAN
Faculty of Life Sciences
Vikram University,
UJJAIN, 456 010, India

[Signature]
Professor & Head
Department of Zoology
Govt. Madhav Vigyan Mahavidyalaya Ujjain



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Department of Higher Education, Govt. of M.P.
Under Graduate Annual Pattern Syllabus

As recommended by Central Board of Studies and approved by Governor of M.P.

उच्च शिक्षा विभाग, म.प्र. शासन
स्नातक कक्षाओं के लिये वार्षिक पद्धति अनुसार पाठ्यक्रम
केन्द्रीय अध्ययन मण्डल द्वारा अनुशंसित तथा म0प्र0 के राज्यपाल द्वारा अनुमोदित

Syllabus For Degree (B.Sc) Course
Subject – Botany
Year – 2017 Onwards

S.NO.	Class	Paper	Title of the Paper	Marks Theory	Marks CCE	Total Marks	Year
1	B.Sc Ist Year	Ist	Diversity of Lower Plants	42.5	7.5	50	2017-18
	B.Sc Ist Year	IInd	Diversity of Higher Plants	42.5	7.5	50	
	B.Sc Ist Year	PRACTICAL (Based on Paper I & II)					
2	B.Sc IInd Year	Ist	Structure Development & Reproduction of Flowering Plants	42.5	7.5	50	2018-19
	B.Sc IInd Year	IInd	Plant Ecology Biodiversity and Phytogeography	42.5	7.5	50	
	B.Sc IInd Year	PRACTICAL (Based on Paper I & II)					
3	B.Sc IIIrd Year	Ist	Plant Physiology & Biochemistry	42.5	7.5	50	2019-20
	B.Sc IIIrd Year	IInd	Cell Biology Genetics & Biotechnology	42.5	7.5	50	
	B.Sc IIIrd Year	PRACTICAL (Based on Paper I & II)					

Dr. Arsid Chandra Prasad (28.4.17)
 (K.R.T. Jain) (28/4/17)
 (S. Srivastava) (28/4/17)
 (U.M. CHITNIS) (28.4.17)
 S.K. Mishra (S.K. Mishra)
 M.K. SESODIYA (3) (22/07/2017)
 P.S. Baghel (22.7.17)
 S.K. Mishra (27/7/15)



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1

Department of Higher Education, Govt. of M. P.
Syllabus For Under Graduate Annual Exam Pattern As recommended by Central
Board of Studies and Approved by the Governor of M.P.
With effect from : 2019-2020

Class : B.A/B.Sc./B.Com/B.Sc (Home Science) B.A (Mgt.) BCA
Year : I
Subject : Foundation Course
Paper Name : English Language
Paper : II
Compulsory/Optional : Compulsory

Max. Marks: 30+ Internal assessment (5)=35

Note : Max.Marks for Private Students shall be 35.

Particulars

UNIT-1

- 1 Where the Mind is Without Fear :Rabindranath Tagore
- 2 The Hero : R.K. Narayan
- 3 Tryst with Destiny : Jawaharlal Nehru
- 4 The Portrait of a Lady : Khushwant Singh
- 5 The Solitary Reaner : William Wordsworth



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3

Department of Higher Education, Govt. Of M.P.

Under Graduate year wise syllabus

As recommended by central board of studies and approved by the government of M.P.

Class- B.A./ B.com./ B.Sc. (Home Science) 1 Year

Subject – Foundation course

Session – 2019-2020

Paper -3 Enterpenuership Development

Unit - 1 Enterpenuership Development – Concept and importance , function of Enterprisar , Goal determination – Problem Challenges and solutions.

Unit - 2 Project proposal –Need and Objects – Nature Of organisation Production Management.

Unit – 3 Role of regulatory Institutions , Role of development Organisations ,

1. सपना का उड़ान (प्रश्न-उत्तर) – ए.पी.ए. अब्दुल कलाम
2. हमारा सौरमण्डल (संकलित)
3. प्रमुख वैज्ञानिक आविष्कार (संकलित)
4. समास (संकलित)

Unit – 5 हिन्दी भाषा

1. शिकागो व्याख्यान (व्याख्यान) – स्वामी विवेकानंद
2. धर्म और राष्ट्रवाद – (लेख) – महर्षि अरविन्द

Dr. P. K. Mishra
3/6/19
डा. प्रमोद कुमार

Dr. P. K. Mishra
03-6-19
डा. प्रमोद कुमार

Dr. P. K. Mishra
03-6-19
डा. प्रमोद कुमार

Dr. Neeraj Mishra
3/6/19
डा. नीरज मिश्रा

Dr. P. K. Mishra
3/6-19
डा. प्रमोद कुमार



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3

Department of Higher Education ,Govt. Of M.P.

Under Graduate year wise syllabus

As recommended by central board of studies and approved by the government of M.P.

Class- B.A./ B.com./ B.Sc. (Home Science) 1 Year

Subject – Foundation course

Session – 2019-2020

Paper -3 Enterprenuership Development

Unit - 1 Enterpenuership Development – Concept and importance , function of Enterprisar , Goal determination – Problem Challenges and solutions.

Unit - 2 Project proposal –Need and Objects – Nature Of organisation Production Management.

Unit – 3 Role of regulatory Institutions , Role of development Organisations , growth schemes.



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संकाय-विज्ञान			
4	<p>श्रीमती सुनैना चौहान, Smt. SUNAINA CHOUHAN, पिता का नाम- श्री भावलाल चौहान, माता का नाम-श्रीमती कौशल्या चौहान (निर्देशक-डॉ. ब्रजेश पारे) (मौ. सं. दि. 16-08-2018) (कुलपति द्वारा अनुमोदित दिनांक 31-08-2018) En-No.-V12R548040015</p>	<p>रसायन Chemistry (विज्ञान) Science शोध केन्द्र-शासकीय माधव विज्ञान महाविद्यालय, उज्जैन</p>	<p>"SYNTHESIS AND CHARACTERIZATION OF NANO STRUCTURED PHOTOCATALYST ZnO AND ITS APPLICATION IN COMPLETE MINERALIZATION OF CALMAGITE, XYLENOL ORANGE, FAST GREEN, PERAROSANILINE, AZURE A, AND BRILLIANT CRESYL BLUE DYES USING VISIBLE LIGHT "सिन्थेसीस एण्ड कैरेक्टराईजेन ऑफ नैनो स्ट्रक्चर्ड फोटोकैटलिस्ट जेड एन ओ एण्ड इट्स एप्लीकेशन इन कम्प्लीट मिनरलाईजेशन ऑफ कैल्माजाइट , जाईलीनॉल आरेंज, फास्ट ग्रीन, पेरारोजल्ल्लीन, ऐजयूर ए एण्ड ब्रिलियन्ट किसायल ब्लू डाइज यूसींग विजिबल लाईट "</p>
5	<p>कु. वैशाली जोशी, Ku. VAISHALI JOSHI, पिता का नाम- श्री शिवनारायण जोशी, माता का नाम-श्रीमती कृष्णा जोशी (निर्देशक-डॉ. ब्रजेश पारे) (मौ. सं. दि. 24-08-2018) (कुलपति द्वारा अनुमोदित दिनांक 31-08-2018) En-No.-V12R546050018</p>	<p>रसायन Chemistry (विज्ञान) Science शोध केन्द्र-शासकीय माधव विज्ञान महाविद्यालय, उज्जैन</p>	<p>" PHOTOCATALYTIC DEGRADATION OF CALMAGITE,ORANGE II,TOLUIDINE BLUE,AZURE B AND METHYLENE VIOLET DYES IN PRESENCE OF SOLAR LIGHT UTILIZING AS-PREPARED NANO BiOCl "फोटोकैटेलाइटिक डिग्रेडेशन ऑफ कैल्माजाइट आरेंज-II , टालूइडीन ब्लू, एजयूर बी एंड मिथाइलीन वाइलेट डाइस इन प्रेसंस ऑफ सोलर लाईट यूटीलाईजिंग एस-प्रीपैयर्ड नैनो BiOCl "</p>
6	<p>वीर सिंह बरडे, VEER SINGH BARDE, पिता का नाम- श्री बासरिया बरडे, माता का नाम-श्रीमती सायबी बाई बरडे (निर्देशक-डॉ. ब्रजेश पारे) (मौ. सं. दि. 27-08-2018) (कुलपति द्वारा अनुमोदित दिनांक 31-08-2018) En-No.-V12R548040008</p>	<p>रसायन Chemistry (विज्ञान) Science शोध केन्द्र-शासकीय माधव विज्ञान महाविद्यालय, उज्जैन</p>	<p>SYNTHESIS,CHARACTERIZATION AND APPLICATION OF NANOSTRUCTURED ZnO FOR THE PHOTOCATALYTIC DEGRADATION OF MALACHITE GREEN, METHYLENE GREEN,DIRECT BLUE-I,ORANGE II,ACRIDINE ORANGE AND NEUTRAL RED DYES IN THE PRESENCE OF VISIBLE LIGHT "सेन्थेसिस कैरेक्टराईजेशन एण्ड एप्लीकेशन ऑफ नैनोस्ट्रक्चर्ड जेड एन ओ ऑफ द फोटोकैटेलाइटिक डिग्रेडेशन ऑफ मैलाकाइट ग्रीन मिथाइलीन ग्रीन डाइरेक्ट ब्लू फास्ट , ओरेंज सेकेण्ड, एक्रिडिन ओरेंज एण्ड न्यूट्रल रेड डाईस इन द प्रेजेन्स ऑफ विजिबल लाईट "</p>



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4	<p>श्री सतीश पिपलोदे, Shri. SATISH PIPODE, पिता का नाम- श्री खुम सिंह पिपलोदे, माता का नाम-श्रीमती सुशीला पिपलोदे, (निर्देशक-डॉ. ब्रजेश पारे) (मौ सं दि 30-08-2018) (कुलपति द्वारा अनुमोदित दिनांक 30-10-2018) En-No.-V11R388040010</p>	<p>रसायन Chemistry (विज्ञान) Science शोध केन्द्र-शासकीय माधव विज्ञान महाविद्यालय, उज्जैन</p>	<p>"SOLAR LIGHT ASSISTED PHOTOCATALYTIC DEGRADATION OF METHOMYL, OXAMYL, CARBOFURAN, CARBARYL AND PROPOXUR PESTICIDES USING FLOWER LIKE NANO BIOCI ." " सोलर लाईट असिस्टेड फोटोकैटालाइटिक डिग्रेडेशन ऑफ मिथोमाइल, आक्झेमाइल, कार्बोफ्युरेन कार्बाराइल एण्ड प्रोपोक्षर पेस्टीसाइड्स यूजिंग फ्लवावर लाइक नेनो BIOC1 "</p>
5	<p>श्रीमती मीनल छजलानी, Smt. MEENAL CHHAJLANI, पिता का नाम- श्री राजेन्द्र कुमार जैन माता का नाम-श्रीमती इंदु जैन, (निर्देशक-डॉ वी के मेहता) (मौ सं दि 28-09-2018) (कुलपति द्वारा अनुमोदित दिनांक 30-10-2018) En-No.-V11R388040002</p>	<p>जैव रसायन BioChemistry (विज्ञान) Science शोध केन्द्र-रसायन अध्ययनशाला, विक्रम विश्वविद्यालय, उज्जैन</p>	<p>" PHYTOCHEMICAL AND BIOLOGICAL INVESTIGATION OF SANTALUM ALBUM (FLOWERS) ." " फोटोकैमिकल एण्ड बायोलॉजिकल इन्वेस्टिगेशन ऑफ सेन्टलम एल्बम (फलावर्स) "</p>

संकाय-जीव विज्ञान

6	<p>मोहम्मद लुकमान मंसूरी, MOHAMMAD LUKMAN MANSURI, पिता का नाम श्री सुवसती खों मंसूरी, माता का नाम-श्रीमती छोटी बी, (निर्देशक-डॉ एम.एस.परिहार) (मौ सं दि. 22-10-2018) (कुलपति द्वारा अनुमोदित दिनांक 30-10-2018) En-No.-B 09 2446</p>	<p>प्राणिकी Zoology (जीवविज्ञान) Life Science शोधकेन्द्र-प्राणिकी एवं जैव विज्ञान अध्ययनशाला, विक्रम विश्वविद्यालय, उज्जैन</p>	<p>"STUDIES ON REGULATION OF METABOLIC FLEXIBILITY OF SKELTAL MUSCLES BY SILENT INFORMATION REGULATOR 3 (SIRTUIN3) " " स्टडीज ऑन रेग्युलेशन ऑफ मेटाबॉलिक फ्लेक्सिबिलिटी ऑफ स्केलेटल मसल्स बाय साइलेन्ट इंफॉर्मेशन रेग्युलेटर थ्री (सरटुइन्स 3) "</p>
7	<p>साधना सेवक, SADHANA SEWAK, पिता का नाम-श्री ओमप्रकाश कौशिक, माता का नाम-श्रीमती श्यामा कौशिक, (निर्देशक-डॉ. चंद्रशीला गुप्ता) (सहनिर्देशक-डॉ.पी.के.गोयल) (मौ सं दि. 29-08-2018) (कुलपति द्वारा अनुमोदित दिनांक 30-10-2018) En-No.-Ph.D.91/2012</p>	<p>प्राणिकी Zoology (जीवविज्ञान) Life Science शोधकेन्द्र-प्राणिकी एवं जैव विज्ञान अध्ययनशाला, विक्रम विश्वविद्यालय, उज्जैन</p>	<p>"ASSOCIATION OF VARIOUS RISK FACTORS NAMELY DEMOGRAPHIC, ANGIOGENIC (VEGF) AND SERUM GLYCEMIC LEVEL IN THE PROGRESSION OF THE DIABETIC RETINOPATHY IN MALWA REGION'S DEABETICS ." " एसोसिएशन ऑफ वैरीउस रिस्क फेक्टर्स नेमली डेमोग्राफिक, इन्जीओजेनिक (वी ई जी एफ) एण्ड सीरम ग्लाइसिमिक लेवल इन द प्रोगेशन ऑफ द डायबिटिक रेटिनोपेथी इन मालवा रिजन्स डायबिटिक्स "</p>



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Programmes Addressing the cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum.

S. No.	Name of Programme	Issue Address
1.	Young Leadership Conclave	Gender Sensitization
2.	Ananya from Gender Equity to Gender Equality. A conversation with Dr. Sonal Mansingh	Gender Sensitization
3.	Let's Redefine the Higher Education: From Basics to Inclusive	Gender Sensitization
4.	12 Pillars of Self Leadership	Gender Sensitization
5.	Mahatma & Women Empowerment Lecture Series	Gender Sensitization
6.	Challenges of Sustainable Development	Environment and Sustainability
7.	Lecture on Economics and Ecology	Environment and Sustainability
8.	Craft of Scientific Writing	Human Values and Professional Ethics
9.	Protecting Your Intellectual Property Right	Human Values and Professional Ethics
10.	Intellectual Property Right	Human Values and Professional Ethics
11.	National Web Conference on Industry Academia Partnership	Human Values and Professional Ethics



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AATMA-NIRBHAR BHARAT

THE VOCAL ABOUT LOCAL PLEDGE

YOUNG LEADERSHIP CONCLAVE
STARTUPS | MENTORSHIP |
LOCAL SITUATEDNESS | GLOBAL OPPORTUNITIES

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Conducted by : Business Incubation Center

18 JULY 2020 3 PM - 5 PM (ZOOM)

Dr. H. S. Dwivedi
Convener, Business Incubator Center

Dr. Kalpana Singh
Coordinator IQAC

Dr. Arpan Bhardwaj
Chairperson IQAC & Principal

OUR SPEAKERS



Er. Vijay Kumar Patidar
Founder
Dishanjali Education and Welfare Foundation
Indore



Mr. Gyanendra Singh
CEO
munshiji.com



Ms. Gayatri Parihar
Director
Vasudha Developmental Organization



Mr. Rajpal Singh Rathore
Founder and President
Young Leaders Conclave M.P.

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presents

!! अन्नया !!
From Gender Equity to Gender Equality
A conversation with
Dr. Sonal Mansingh
Padmavibhushan, M.P. Rajya Sabha
& Renowned Artist of Classical Dance



Organized by :
Women and Gender Development Cell (WGDC)
&
Internal Quality Assurance Cell (IQAC)
Supported by :
MPHEQP : An Initiative of State Project Directorate,
Department of Higher Education, Govt. of Madhya Pradesh

Date 30/09/2020
3:45 PM ON ZOOM

<https://us02web.zoom.us/j/81040898859?pwd=RTBOVER4ZlE1M0c5SDZpVjZSTm85S0t09>
@govtmadhavsciencecollegeujjain Instagram madhavcollege2020

Streaming live on YOUTUBE <https://youtu.be/ZL60ccyy1u25>

Chief Guest
Dr. Mohan Yadav
Minister,
Department of Higher Education
Govt. of M.P.

Special Guest
Dr. B. K. Sharma
Vice-Chancellor,
Vikram University, Ujjain

Dr. Arpan Bhardwaj
Principal

Moderator
Mr. Hardik Dave
Professor, Zee News

Dr. Kalpana Singh
Co-ordinator IQAC

In conversation WITH THE MYSTIC

Dr. Pinky Duivedi
Professor Botany



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Eduthon 2020

IN THE LIGHT OF

NATIONAL EDUCATION POLICY 2020

Dr. N. Ratnashree

Director

Nehru Planetarium at Nehru Memorial Museum and Library Delhi, India



13th August '20
Time : 3 pm onwards

Astrology and Kalidas of Ujjaini



LET'S REDEFINE THE HIGHER EDUCATION: FROM BASICS TO INCLUSIVE



Chief Guest
Dr. Mohan Yadav
Hon'ble Minister,
Higher Education, Govt. of M.P.

Padma Shri Dr. Shovana Narayan
Outstanding Kathak Doyen



12th August 2020
Time : 3 pm onwards

शिक्षा और कला : एक ही सिक्के के दो पहलू
Art and Education : Two Faces One Soul

ORGANIZED BY :
INTERNAL QUALITY ASSURANCE CELL
&
UGC CELL OF THE COLLEGE



ज्ञान-विज्ञान विभूषणे

चिड़िया फिर नहीं चहकी



Padma Shri Dr. Alok Mehta
Journalist and Writer

14th August 2020

Time : 3 pm onwards

नयी शिक्षा नीति व्यापक संदर्भ में
New Education Policy:
Broader Perspective

Dr. Pinki Dwivedi
UGC Coordinator

Dr. Kalpana Singh
Coordinator IQAC

Dr. Arpan Bhardwaj
Principal & Chairperson IQAC

Govt madhav science college ujjain Instagram madhavscience2020 Chemistry Department MVM





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IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN



12 PILLARS OF SELF LEADERSHIP

स्व नेतृत्व के बारह स्तम्भ

A NATIONAL WORKSHOP

ON

PERSONALITY DEVELOPMENT

Under the aegis of
STATE PERSONALITY DEVELOPMENT CELL
DEPARTMENT OF HIGHER EDUCATION GOVT. OF M.P.



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Chief Guest



Dr. Mohan Yadav
Hon'ble Minister,
Higher Education,
Govt. of M.P.

Speakers



Dr. Vikrant Singh Tomar
Acknowledged Trainer,
Writer, Academician, Scholar
and Consultant



Dr. Brahmadeep Alune
State Co-ordinator,
Personality Development Cell,
Higher Education, Bhopal



Dr. Arpan Bhardwaj
Principal &
Chairperson IQAC



Dr. Shobha Shouche
Coordinator
Personality Development Cell



Dr. Kalpana Singh
Coordinator
IQAC

Organizers

September 10th
Time:
3.30 pm onwards

Organized by
Personality Development Cell
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Mahatma & Women Empowerment Lecture series

23rd & 24th November 2020

on Google Meet streaming live on YouTube



Govt madhav science college ujjain



Chemistry Department MVM



Instagram madhavscience2020



Dr. Mohan Yadav
Hon'ble Minister,
Higher Education,
Govt. of M.P.
(Chief Guest)



Dr. Shobhna Radhakrishna
Veteran Gandhian
Gandhi Katha
on 23/11/2020



Shri Vikas Dave
Director
M.P. Sahitya Academy
Guest of Honour
on
23/11/2020



Ms. Laxmi Agarwal
an Indian acid attack
survivor, a campaigner
for rights of
acid attack victims
Chappak Movie
Inspiration
24/11/2020



Sh. Rakesh Gupta
IPS IG
UJJAIN
Guest of Honour
on
24/11/2020



Dr. Arpan Bhardwaj
Principal



Dr. Kalpana Singh
IQAC Coordinator

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SLNC (State Level NAAC Cell)
ANMP 01-3 NAAC
(Atma Nirbhar Madhya Pradesh Outcome indicator -3 NAAC)

3.00 PM
ONWARDS



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Internal Quality Assurance Cell of Govt. Madhav Science P.G. College, Ujjain

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WEBINAR ON

**CHALLENGES OF SUSTAINABLE DEVELOPMENT:
AN INCLUSIVE APPROACH WITH SPECIAL REFERENCE TO COVID ERA
June 5th and 6th**

INTERNATIONAL ENVIRONMENT DAY

SUPPORTED BY: N.G.C. CHAPTER, GOVT. MADHAV SCIENCE P.G.COLLEGE UJJAIN

SARS COV 2: Novel corona Virus has created an unforgettable impact across the globe. New Normals are set in, much has changed since the outbreak has emerged, each and every perspective of our life is redefined. Environment and sustainable development are no exception, section of intellectuals are turning their heads towards the practices adopted for modernization. There is a huge shout out NO TO DEVELOPMENT AT THE COST OF LIVES. We need to brainstorm to find new methodologies for sustainable development. We need to redefine practices whatever they are, we need to learn again about symbiotic and sustainable development. Govt. Madhav Science P.G.College Ujjain is organizing a two day WEBINAR on the occasion of International Environment Day 5th & 6th June 2020. Themes to be discussed among four sessions in two days are:

5th June 2020

Time : 2.30 p.m. - 5.00 p.m.
Clean and Green Energy for
Sustainable development
Safe planet: Symbiotic approaches

6th June 2020

Time : 2.30 p.m. - 5.00 p.m.
Inclusive Approach for
Sustainable Development
Water Resource management

ESTEEMED SPEAKERS

5th June 2020



<https://in.linkedin.com/megha-pishpendra-293326347>
DR. MEGHA PISHPENDRA
LEAD STRATEGIC COMMUNICA TION AT
INTERNATIONAL SOLAR ALLIANCE



<https://in.linkedin.com/in/maturakal>
KARTIKEYA SINGH
BOTANICAL WILDLIFE AND FORESTRY SERVICE
RECIPIENT OF THE BEST LODGE NATURALIST OF THE YEAR 2010 AWARD
MUSHRUM INDIAN UNIVERSITY CONSERVATION AWARD 2016



<https://in.linkedin.com/in/sarbjot-kaur-979936116>
DR. SARBJOT KAUR MAKKAD
ASSTT. PROFESSOR NPG COLLEGE OF SCIENCE RAIPUR
SHYAMA PRASAD MUKHERJEE FELLOW
YOUNG SCIENTIST AWARDEE BY INDIAN CHEMICAL SOCIETY



<https://in.linkedin.com/in/dr-harish-vyas-34281136>
DR. HARISH VYAS
PROFESSOR BOTANY
GOVT. KALIDAS GIRLS' COLLEGE UJJAIN
POST DOCTORAL RESEARCHER
UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER, CANADA



<https://www.researchgate.net/profile/DrBrijesh-Pare>
DR. BRIJESH PARE
PROFESSOR CHEMISTRY
GOVT. MADHAV SCIENCE PG COLLEGE UJJAIN
CHAIRPERSON ALL INDIA CHEMISTRY TEACHERS ASSOCIATION



https://en.wikipedia.org/wiki/Janak_Palta_McGilligan
PADMA SHRI DR. (MRS) JANAK PALTA MCGILLIGAN
IS AN INDIAN SOCIAL WORKER AND THE FOUNDING TRUSTEE
AND VICE CHAIRPERSON OF JIMMY MCGILLIGAN CENTRE
FOR SUSTAINABLE DEVELOPMENT
SHE IS ALSO A FORMER DIRECTOR OF BAREILLY DEVELOPMENT
INSTITUTE FOR RURAL WOMEN.



<https://www.ese.iitb.ac.in/faculty/chetan.singh.solanki/>
DR. CHETAN SINGH SOLANKI
SOLAR MAN OF INDIA
DEPARTMENT OF ENERGY SCIENCE AND ENGINEERING
@ BOMBAY POWAI (MUMBAI)
GANDHI GLOBAL SOLAR YATRA & ENERGY SWARAJ SANSTHAN

From :

Dr. Kalpana Virendra Singh
IQAC Coordinator

Dr. Manmeet Kaur Makkad
Coordinator
NGC College Chapter

Dr. Arpan Bhardwaj
Principal



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विलक्षण

Lecture on Economics and Ecology

in CONVERSATION

with the **M**ystic



Mr. Anil Prakash Joshi

- Padma Bhushan 2020
- Padma Shri 2006
- Jamnalal Bajaj recipient
- Ashoka Fellow

Inaugural Lecture on

8th July 2020 • 1500 hrs. India Time

Chief Guest
Dr. Mohan Yadav
Hon'ble Cabinet Minister
Govt. of M.P.

Special Guest
Dr. B. K. Sharma
Vice-Chancellor
Vikram University, Ujjain

Special Guest
Dr. R. C. Jatwa
Addition Director
Higher Education, Ujjain

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Dr. Kalpana Singh
Coordinator IQAC

Dr. Arpan Bhardwaj
Chairperson IQAC

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9th AND 10th OF JULY 2020 3-4 p.m.

ON

"CRAFT OF SCIENTIFIC WRITING"

By

PROF. RAJNEESH MISRA

Professor of Chemistry, IIT, Indore

Organized under **PURE**

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- His research interest focuses on design, and synthesis of conjugated organic molecules for organic electronics and photonics such as solar cells, field-effect transistors, light-emitting diodes, and multi-photon absorption.
- He and his group has published in quality journals like Dalton Transactions, Angewandtechemie, EuroJoc, Organometallics and Journal of material Chemistry.
- He will be focusing on the art of scientific writing which is important for Faculty , Research Scholars and students from Chemistry, Life Sciences, Physical Sciences and Material Sciences.

Dr. Kalpana Singh
Coordinator IQAC

Dr. Arpan Bhardwaj
Chairperson IQAC
Principal

E certificates will be provided based upon your Registration and Attendance in the event



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Mr. Sonal Gupta
Advocate
High Court of M.P.



Ms. Geeti Dwivedi
Associate at AM Legal Attorneys,
New Delhi



Mr. Sanyam Gandhi
Regulatory strategy lead Takeda
London, United Kingdom



Mr. Hemant Kumar Singya
BioXcel Pvt.Ltd.
Gurgaon

June 16th, 2020

**starts at 11.00 a.m. India Time
on Zoom**

LINK FOR REGISTRATION <https://forms.gle/da6hgj7WTWUKGUDL8>

ORGANIZERS :
INTERNAL QUALITY ASSURANCE CELL
DEPARTMENT OF BIOTECHNOLOGY
DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

From :

Dr. Kalpana Singh
IQAC Coordinator

Dr. Jeevan Singh Solanki
Coordinator
Pharmaceutical Chemistry

Dr. H. S. Dwivedi
Coordinator
Biotechnology

Dr. Arpan Bhardwaj
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INTELLECTUAL PROPERTY RIGHTS
LECTURE SERIES
2nd DECEMBER 2020
11.00 am onwards on ZOOM

LECTURE 1

"Intellectual Property Rights (IPR) : Basics and Strategic Significance for Academics & Business "



Mr. Padmin Buch
Senior IPR Domain Expert and also Project & Management Advisor



Dr. Arpan Bhardwaj
Principal
Govt. Madhav Science P.G. College Ujjain



Dr. Kalpana Singh
Moderator
Professor Chemistry
Co-ordinator IQAC
Govt. Madhav Science P.G. College Ujjain

LECTURE 2

"Transfer of Ownership, Deed of Assignment"



Shri Rakesh Soni
Law Firm Intellect Goodwill



Dr. H.S. Dwivedi
Co-ordinator
Business Incubation Centre
Govt. Madhav Science P.G. College Ujjain (M.P.)

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Dr. Abhishek Mishra
Professor (Marketing)
Indian Institute of Management,
Indore



Dr. Shubha Jain
Professor & Head
S.S. in Chemistry & Biochemistry,
Vikram University, Ujjain



Dr. Arpan Bhardwaj
Principal
Govt. Madhav Science P.G. College,
Ujjain

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Dr. Kalpana Singh

Co-ordinator IQAC
Govt. Madhav Science P.G. College
Ujjain

Dr. H. S. Dwivedi

Co-ordinator Swavlamban,
Govt. Madhav Science P.G. College
Ujjain

NATIONAL WEB CONFERENCE
on
Industry Academia Partnership
16th December 2020
FROM 10.00 AM ONWARDS



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