



OFFICE, PRINCIPAL GOVERNMENT TULSI COLLEGE, ANUPPUR

Affiliated to Awadhesh Pratap Singh University Rewa (MP)

Registered Under Section 2 (F) & 12 (B) of UGC Act


E-mail: hegtcno@mp.gov.in


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M.Sc. Chemistry Course Outcome

GOVT. TULSI COLLEGE ANUPPUR (M.P.)

Program	Program Outcome
M.Sc. [CHEMISTRY] Post Graduate Program	<ul style="list-style-type: none">• To understand the basic facts and concept in chemistry• To make structure for various spectrometric analysis.• To skill for various laboratory techniques used in chemical products.


Head
Deptt. Of Chemistry
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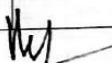
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Curriculum /Course outcome

GOVT. TULSI COLLEGE ANUPPUR (M.P.)

Course Code	Course Name	Course Outcome		
		Knowledge gained	Skill Gained	Competency developed
	M.sc. Chemistry	<ul style="list-style-type: none"> • Student will be able to fundamental insights in to chemical Compounds with Application in medicine, catalysis alternative energy and other many areas. 	<ul style="list-style-type: none"> • Students learn to sophisticated instrumental and equipment to investigate the world around them • As well as developing strong numerically ability and skills. • Time management 	<ul style="list-style-type: none"> • Students acquires professional as well as scientific level Competence. • they have scientific and professional entry level competency along.
		<ul style="list-style-type: none"> • They understand more about global environmental issues affecting nowadays society. 	<ul style="list-style-type: none"> - Written as oral combination - maintaining records - Team work - Research and presentation. 	<ul style="list-style-type: none"> With advanced theoretical practical knowledge in the specialized field.


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GOVT. TULSI COLLEGE ANUPPUR (M.P.)

M.Sc. IV

CHEMISTRY

Course (Semester / year)	Subject	Unit/Topic	Course/syllabus			
			Environmental Sustainability	Social/Human Values	Professional Ethics	Moral Value
M.Sc. IV Sem. II 2nd year Final year	Chemistry Medicinal Chemistry	I st / Structure and activity. 2 nd / Pharmacodynamics 3 rd / Antibiotics and antibacterials 4 th / Antifungal Antiparasitics 5 th / Non-steroidal Anti-inflammatory drugs.	Good for the environment, good for people. Evaluate the influence of environmental contaminants on drug metabolism. Used in human and animal therapy are reaching the environment through urine Infection by microbes and parasitism can cause serious diseases in both humans and animals. Management of environmental risks of emerging pollutants.	Including the nature of statutory and voluntary social drug absorption, distribution and metabolism. Antibiotic contaminated waste water treatment of various ailments To save our body and to prevent health.	Emissions and prevent global warming in sanitation, health and duplication of physiological setting. To remove fungal diseases and malaria To evaluate the reproductive.	Prevent is human health for improving mental well being lifestyle forms. impact of antibiotic and on photosynthesis and mitochondria To maintain our body and good our health in mental our health.

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Chemistry
GOVT. TULSI COLLEGE ANUPPUR (M.P.)

M. Sc. IVth Sem.

Course (Semester / year)	Subject	Unit/Topic	Course/syllabus			
			Environmental Sustainability	Social/Human Values	Professional Ethics	Moral Value
<i>M. Sc. IVth year Final year</i>	<i>Chemistry (Chemistry of natural products)</i>	<i>1st/ Terpenoids and Carotenoids 2nd/ Alkaloids 3rd/ Steroids 4th/ Plant pigments 5th/ Prostaglandins.</i>	<i>Plant interaction with environment bio-synthesis of all alkaloids in amaryllidaceae Cation anabolic steroids and pharmaceutical product last longer in the environment. molecular and environmental determination of plant: Colors. purification of minimizing the generation of waste chemicals</i>	<i>To promote plant growth and yields To treat symptoms of neurodegenerative disorders. To bodybuilding and weight lifting communities. The interaction between plants and animals for pollination and seed scattering. Some of their derivatives are used as a medicine.</i>	<i>For low input agricultural practices. For improving the efficiency of plant. To promote weight gain and increase feeding efficiency in cattle.</i>	<i>Use of beneficial microorganism in agriculture To identify biosynthetic enzymes. To improve food availability improve our knowledge of gene regulation.</i>

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GOVT. TULSI COLLEGE ANUPPUR (M.P.)
Chemistry (Pg)

M.Sc. LV Sem.

Course (Semsetert / year)	Subject	Unit/Topic	Course/syllabus			
			Environmental Sustainability	Social/Human Values	Professional Ethics	Moral Value
M.Sc. LV Sem / Final year	Chemistry Solid state chemistry	1 st / Solid state reaction 2 nd / crystal defect and non stoichiometry 3 rd / electronic preparation and band theories 4 th / organic solids 5 th / liquid crystals	Advanced electrocatalysis for energy via solar and N ₂ reactions Remediating over polluted environment and the generation of sustainable chemical energy. able to conduct electricity by commonly a metal A cleaner ones or recovery and bio recycling option for agriculture and environmental sustainability Purity at the solid product.	Energy converting for improving the photocatalytic performance and their applications. In separation between energy levels in solid. for bioconversion of agricultural industrial rural and urban generated organic solid Extremely up of in the front of Urban mining strategies.	In farming fuel cells. Generating an internal electric field informing to high conductivity cells. In farming Vermicompost encourage industrial innovation of the recycling companies	Clean and efficient energy storage and consuming. for developing high performance photocatalytic In manufacturing the new cells!

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GOVT. TULSI COLLEGE ANUPPUR (M.P.)

Chemistry

M.Sc. IVth Sem

Course (Semsetert / year)	Subject	Unit/Topic	Course/syllabus			
			Environmental Sustainability	Social/Human Values	Professional Ethics	Moral Value
<i>M.Sc. IVth Sem IInd year final</i>	<i>Chemistry (Application of Spectroscopy)</i>	<i>1st/ UV-Visible and Visible Spectroscopy 2nd/ Infrared Spectroscopy 3rd/ Nuclear Magnetic Resonance of Paramagnetic Substances in Solution. 4th/ NMR Spectroscopy 5th/ Mass Spectroscopy</i>	<i>UV Spectroscopy for water analysis Enforms for the management of dairy Comp. Versatile tool for the study of structure such as air soil and water Life on the earth plant omics</i>	<i>Advances on water quality detection by on U-V spectroscopy chemical-physical and technological analysis of milk. for agriculture and industrial activity In the field of climate change Pollution and sustainability agriculture Agriculture medicine and biofertilis. sustain-ability.</i>	<i>Qualitative Information on the global composition of water and its variation Economic and social sustainability Agrochemicals and these interactions in term determinates for public health diversity of plant species under various conditions.</i>	<i>An important development direction for water quality monitoring Raw material analysis on milk analysis study structure In solid air water TO understand the importance of environment functions and mechanism of plant biochemistry</i>

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Course (Semset ert/ year)	Subject	Unit/Topic	Course/syllabus			
			Environmental Sustainability	Social/Human Values	Professional Ethics	Mor Valu
M.sc. II Previous year	Chemistry organic chemistry	1 st / Aromatic electrophilic Substitution. 2 nd / free radical Reaction. 3 rd / Addition Reaction 4 th / Addition to Carbon-Hetero multiple bonds 5 th / Pericyclic reaction	for stability reactivity and other properties. aromatic Compounds To do it adding of many Compounds To form hard Compounds To form medicine	To be Knowledge Harmful Substance To be Knowledge of stability of organic Compounds	To be Knowledge and application of medicines. formation of stable Compounds To form macro molecules economically help	The formation of various medicines to be Knowledge of Compounds preparation of polymer

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			Environmental Sustainability	Social/Human Values	Professional Ethics	Mo Val
M-sc. II / previous year	Chemistry (Physical Chemistry)	1st/ chemical dynamics 2nd/ surface chemistry 3rd/ macromolecules 4th/ non-equilibrium thermodynamics 5th/ Electrochemistry	Effect of temperature pressure and concentration on chemical substance forming colloidal solution and surface tension these are formed by polymerisation process on environmental effect.	To be knowledge of various conditions in dialysis like kidney and heart to collect of micromolecules to burn oxidation and reduction Reaction learning Informing the cell of various types	In charge of chemical substance to each other in treatment medicines forming economically help	Convert one substance to another substance to manufacture new technique for occupation

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M.Sc. 1st Sem.

Course (Semset ert/ year)	Subject	Unit/Topic	Course/syllabus			
			Environmental Sustainability	Social/Human Values	Professional Ethics	Mora Valu
M.Sc. 1 st Sem. Previous year	Chemistry Inorganic Chemistry	1 st / Electronic spectral studies of transition metal complex 2 nd / Magnetic properties of transition complex 3 rd / Metal-X-Complex 4 th / Metal Clusters 5 th / Optical rotatory dispersion and Circular dichroism.	In phototherapy and Chemotherapy of cancer. To determination of hardness of water. Inorganic synthesis photo-chemical industry. In addition to cancer polarizing of light	Anti-Cancer drug. In weightlessly calculation fungicide Antibiotic forming treatment of diabetes hypertension. To study biological molecules	For the diagnosis and therapy In dyes industry In medicines In treatment of anemia absorption spectroscopy	To treatment of cancer

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