



Office of the Principal, Government College Bichhua Chhindwara (M.P.) 480111



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Established on 21/09/1989, Recognized under 2 (f) & 12 (B) of the UGC Act, 1956

Affiliated to Raja Shankar Shah University, Chhindwara (M.P.) 480001

CROSS CUTTING ISSUES

PROFESSIONAL
ETHICS

GENDER
EQUALITY

CROSS
CUTTING
ISSUES

HUMAN
VALUES

ENVIRONMENTAL
SUSTAINABILITY



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LIST OF CROSS-CUTTING ISSUES

INDEX

S.No.	Year	Pg.No.
01	HUMAN VALUES	03-07
02	PROFESSIONAL ETHICS	08-11
04	GENDER EQUALITY	12-14
05	ENVIRONMENTAL SUSTAINABILITY	15-20



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HUMAN VALUES



GOVT. COLLEGE, BICHHUA, DISTRICT - CHHINDWARA (M.P.)

LIST OF CROSS CUTTING ISSUES

S.No.	Class	Subject	Paper	Paper Title	Topic	No. of Topics
HUMAN VALUES						
1	UG I YEAR	FC-I	FIRST (HINDI)	LANGUAGE & CULTURE	Path utsah, Path Bhart Ek Hai, Jeevan va Drshan	3
2	UG I YEAR	FC-I	FIRST (ENGLISH)	ENGLISH LANGUAGE & INDIAN CULTURE	Where the Mind is Without Fear, National Education	2
3	UG II YEAR	FC-I	FIRST (HINDI)	LANGUAGE & CULTURE	Samsamaek; Sandrbh Shreemadbhagvadgeeta-karmyog	3
4	UG II YEAR	FC-II	SECOND	ENTREPRENEURSHIP DEVELOPMENT	ENTERPRENURESHIP DEVELOPMENT, REPORT PREPRATION	2
5	B.A. III YEAR	HINDI LITERATURE	MAJ-II/MIN/ELEC	Lok sahity avam lok sanskriti	Loksahity avam lok sanskriti ki avdharna, lok sahitya ke pramukh sankalan, lokgeet avam loknatayswvarop, lokkathasawarop, lok sangeetlok naraty avam anay gadhya vidhaye	2
6	M.A I SEM	HINDI LITERATURE	PAPER - II	Aadhunik hindi gadhy aur uska itihash	Skandgupt Aadhe Adhure godan shekher ek jeevani	4
7	M.A II SEM	HINDI LITERATURE	PAPER - II	Aadhunik hindi gadhy aur uska itihash	Nibandh desh seva ka mahatv, shivmoorti, kavay me lok mangal ki sadhnasth, majdoori aur prem, mere ram ka mukut bheeg raha hai, ek tokari bhar mitti	6
8	M.A III SEM	HINDI LITERATURE	PAPER - III	natak nibandh avam any gadhy vidhaye	Deepdan, tambe ke keede, reed ki haddi, toliye, naye mahman	5
9	M.A IV SEM	HINDI LITERATURE	PAPER - II	Bhasha vigan avam hindi bhasha	Hindi ka Bhogolik Vikas Hindi ke Vividh Roop,	2
10	B.A I YEAR	ENGLISH LITERATURE	MAJOR - I	STUDY OF DRAMA	OEDIPUS REX, DR. FAUSTUS, HAYAVADHANA,	3
11	B.A. II YEAR	ENGLISH LITERATURE	MAJOR - I	STUDY OF PROSE	ON THE RULE OF THE ROAD	1
12	B.A. II YEAR	ENGLISH LITERATURE	MAJ-II/MIN/ELEC	EXPEIMENTS WITH FICTION	THE ENGLISH TEACHER, UNTOUCHABLE	2
13	B.A. III YEAR	ENGLISH LITERATURE	MAJOR - I	GROUP-A-II INDIA DIASPORA LITERATURE	THE WHITE TIGER	1
14	B.A. III YEAR	ENGLISH LITERATURE	MAJOR - I	GROUP-B-II LITERARY CRITICISM AN THORIES	MARXIST LITERARY CRITICISM	1
15	B.A. III YEAR	ENGLISH LITERATURE	MAJOR - I	GROUP-B-II PRACTISING AND EVALUATING LITERARY CRITICISM AND THEORIES	GITA, RAMAYANA	2

16	M.A I SEM	ENGLISH LITERATURE	PAPER - IV	Prose	Bacon's Essays	4
17	M.A II SEM	ENGLISH LITERATURE	PAPER - I	Poetry	The Waste Land	1
18	M.A IV SEM	ENGLISH LITERATURE	Paper III	Indian Writing in English	Train to Pakistan	1
19	M.A IV SEM	ENGLISH LITERATURE	Paper III	Literature and Translation	On the Hypocrisy of the Faith, On Missing a Dear One, On Longing, On the Souls of Countries and People, Grandfather, Hunger, Gaban, Tamas	7
20	B.A I YEAR	SOCIOLOGY	MAJOR - I	INDIAN SOCIETY & CULTURE	SOCIAL ISSUE - NATIONAL INTREGATION & CHALLENGES, INDIAN FAMILY, VALUE, PATTERN & ISSUES OF CHILDREN, YOUTH & ELDERLY	6
21	B.A. II YEAR	SOCIOLOGY	MAJ-II/MIN/ELEC	SOCIAL CHANGE & DEVELOPMENT	CONTRIBUTION OF COMMUNITY & SOCIAL DEVELOPMENT PROGRAMME IN INDIA	
22	B.A I YEAR	POLITICAL SC.	MAJOR - I	POLITICAL THEORY	INTRODUCING IDEOLOGIES, COR POLITICAL CONCEPTS - FREEDOM, EQUALITY, JUSTICE, RIGHTS, THE IDEA OF DEMOCRACY	6
23	B.A I YEAR	POLITICAL SC.	MAJ-II/MIN/ELEC	INDIAN CONSTITUTION	GENETICS OF INDAN CONSTITUTION AND SALIENT FEATURES, LEGISLATURE, EXECUTIVE, JUDICIARY AND OTHER CONSTITUTIONAL BODIES, DIVISION OF POWERS	5
24	B.A. II YEAR	POLITICAL SC.	MAJOR - I	WESTERN POLITICAL THOUGHTS	NATURAL LAWS AND RIGHS, THOMAS HILL GREEN : VIEWS ON RIGHTS, HOROLD j. LASKI : VIEWS ON LIBERTY, RIGHTS AND EQUALITY	3
25	B.A. II YEAR	POLITICAL SC.	MAJ-II/MIN/ELEC	INDIAN POLITICAL THINKERS	NATIONAL EDUCATION AND NATIONALISM, THE IDEA OF NON-VOILENCE AND SATYAGRAHA	2
26	B.A I YEAR	ECONOMICS	MAJ-II/MIN/ELEC	INDIAN ECONOMY	DEMOGRAPHIC FEATURES POPULATION COMPOSITION SIZE AND GROWTH RATE	1
27	B.A I YEAR	GEOGRAPHY	MAJOR - I	INTRODUCTION TO HUMAN GEOGRAPHY	INDIAN ETHICS AND VALUE	1
28	B.A. II YEAR	GEOGRAPHY	MAJOR - I	TERITARY ACTIVITY	IMPACT ON ECONOMY AND SOCIETY	1
29	B.A. III YEAR	GEOGRAPHY	MAJOR - I	POLITICAL ASPECTS	CROSS BORDER TOURISM	1
30	B.A. III YEAR	GEOGRAPHY	MAJ-II/MIN/ELEC	MARINE RESOURCES AND THEIR MANAGEMENT	OCEAN RESOURCE OF ASIA AND THEIR POTENTIALITY	1
31	B.COM I YEAR	COMMERCE	MAJ-II/MIN/ELEC	BUSINESS REGULATORY FRAMEWORK	CONSUMER PROTECTION ACT-1986	1
32	B.COM II YEAR	COMMERCE	MAJOR - I	PRINCIPAL OF MANAGEMENT	MANPOWER PLANNING, MOTIVATION	2
33	B.COM II YEAR	COMMERCE	MAJ-II/MIN/ELEC	INDIAN COMPANY ACT	MAJORITY POWERS AND MINORITY RIGHTS	1
34	B.COM III YEAR	COMMERCE	MAJOR - I	PRINCIPAL OF MARKETING	CONSUMER BEHAVIOUR AND MARKETING SEGMENTATION	1
35	M.COM I SEM	COMMERCE	PAPER - II	BUSSINESS ENVIRONMRNT	BUSINESS ENVIRONMENT, ECONOMIC ENVIRONMENT OF BUSINESS, POLOTICAL AND LEGAL ENVIRONMENT OF BUSINESS, SOCIAL CULTURAL AND INTERNATIONAL ENVIRONMENT, TECHNOLOGICAL ENVIRONMEN	5
36	M.COM II SEM	COMMERCE	PAPER - IV	FUNCTIONAL MANAGEMENT	PERSONAL MANAGEMENT CONCEPTS	

37	M.COM III SEM	COMMERCE	PAPER - I	ENTERPRENEURSHIP SKILL	ENTERPRENEURIAL BEHAVIOR, ENTREPRENEURIAL DEVELOPMENT PROGRAMME	
38	B.SC. I YEAR	BOTANY	MAJOR - I	Applied Botany	1.3 Relation of plants to man and relation with other services 1.4 Various disciplines of botany and their applications to human welfare 1.1 Role of Botany in Rural development 1.5 Ethno-food crops: Definition and examples (Local name. Botanical name, family and importance of Garadu.Singada, Kutaki. Sama. Kodo. Bathua. Sehjan. owar. Makka, Bajra, Jau)	4
39	B.SC. I YEAR	BOTANY	MAJ-II/MIN/ELEC	Basic Botany	Role of algae in nature and its economic importance.	1
40	B.SC. II YEAR	BOTANY	MAJ-II/MIN/ELEC	INDUSTRIAL BOTANY	1.1 Timber yielding trees of India and their products (Shisham, Sal, Teak, Deodar, Babool). 1.2 Bamboo and Cane Industry. 1.3 Kattha' Industry. 1.2n Leaf Based Industries- 1.1 Utility products of leaf (Palash, Banana). 1.2 Tea Industry (Production of various types of teas). 1.3 Leaf oil Industry (Mint, Camphor, Neem, Tulsi, Eucalyptus and Lemon grass). 1.4 Leaves used as spices (Kasoori Methi, Pudina, Curry patta, Onion , Tejpatta). in Flower based Industries- 1.1 Perfume products of Gulab, Jasmine, Henna, 1.2 Color industry (Food and Holi colors). 1.3 Raw material for Fermentation (Mahua). IV Fruits and Seedsbased Industries- 1.1 Jams, Jellies, Juice, Sauce and Pickles. 1.2 Poha and Daal Industry. 1.3 Edible Oil Industry (Groundnut, Soybean) 1.4 Starch, Glucose, and Dextrose Industry. V other parts of plants based Industries- 1.1 Sugar and Jaggery Industries.	5
41	B.SC. III YEAR	BOTANY	MAJ-II/MIN/ELEC	ETHANOBOTANY	Ethnobotany Introduction, concept, scope and objectives; Ethnobotany as an interdisciplinary science. Plants used by the> tribals: a) Food plants b) intoxicants and beverages c) Resins and oils and miscellaneous uses. Plants in mythology, Taboos and totems in relation to plants, folklore and folktales, Wildlife protection in tribals. Plants in similes and metaphors Medico-ethnobotanical sources in India; Significance of the following plants in ethno botanic^ practices (along with their habitat and morphology) a) Azadiractha indica	50

42	B.SC. III YEAR	BOTANY	MAJ- II/MIN/ ELEC	ETHANOBOTANY	<p>b) Ocimum sanctum c) Vi d) Gloriosa superba e) Tinospora cordifolia f) Butea monosperma g) Cassia fistula h) ; ofera N tinctoria. Role of ethnobotany in modern medicine with special example Rauvolfia serpentina. Terminalia arjuna, Artemisia, Withania. Role of ethnic groups in conservation of plant genetic resources^^ Endangered taxa and forest managementVarious branches of Ethnobotany . Ethnobotany { nd legal aspects. Ethnobotany as a tool to protect interests of ethnic groups. Sharing of wealth concept with few examples from India. Biopiracy, Intellectual Property Rights and Traditional Knowledge. Role of Peoples Biodiversity Register (PBR) and Biodiversity Management committees(BMC).</p> <p>12 The relevance of ethnobotany in the present context; Major and minor ethnic groups or Tribals of India, and their life stylestudy of common Plants in Skin Diseases , Bronchial inflammation, Asthma, Jaundice, Malaria, Expulsion of Worms, Jaundice, Piles, Rheumatism, Heart Diseases , Amoebic Dysentery ,leukodermj</p>	
43	M.SC IV SEM	BOTANY	PAPER - I	Biotechnology Tissue Culture and Genetic Engineering	1, Environment biotechnology and ethics, 2. Intellectual property rights	
44	B.SC. III YEAR	CHEMISTRY	MAJ- II/MIN/ ELEC	PHARMACEUTICAL AND MEDICINAL CHEMISTRY	Drug absorption, Drug design and drug development: An overview. Approaches to drug design, beta-lactam, Penicillin, antifungal, Antimalarial, Antiviral and anti-inflammatory drug.	8



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PROFESSIONAL ETHICS



GOVT. COLLEGE, BICHHUA, DISTRICT - CHHINDWARA (M.P.)

LIST OF CROSS CUTTING ISSUES

S.No.	Class	Subject	Paper	Paper Title	Topic	No. of Topics
PROFESSIONAL ETHICS						
1	UG I YEAR	FC-I	FIRST (HINDI)	LANGUAGE & CULTURE	Maithlisharan gupta matrbbhoomi,Premchand Shatranj Ke khiladi,Sharad joshi jeep par savar Illiyan	3
2	UG II YEAR	FC-I	FIRST (HINDI)	LANGUAGE & CULTURE	Surykant tripathi jago fir ek bar,Amarkant Dopahae ka Bhojan,Mahadevi Varma gillu hajari prasad duewedi madhy Pradesh ki lokkalyan ,madhypradeshlok sahity,muhavre aur Khavten ,Samas Beej shabd	7
3	UG II YEAR	FC-I	FIRST (ENGLISH)	ENGLISH LANGUAGE & FOUNDATION	Patriotism Beyond Politics and Religion	1
4	UG III YEAR	FC-I	FIRST (HINDI)	LANGUAGE & CULTURE	Usha priyamvda Vapsi,Vivekanand Shikako Vayakhayan ,Mahatma Gandhi Aatmkatha ke Ansh	8
5	B.A I YEAR	HINDI LITERATURE	MAJOR - I	HINDI KAVYA	Goraknath,Chandvardai,Vidhyapati,Kabirdas,Malik Mohmmad Jaysi,Surdas,Goswami Tulsidas,Bihari,Bhusan,Bhartendu Harishchandra,Ayodhyaprasad Hariodh,Suryakant Tripathi Nirala,Mahadevi verma	13
6	B.A I YEAR	HINDI LITERATURE	MAJ-II/MIN/ ELEC	KARYALAYIN HINDI AVAM BHASHA COMPUTING	Manu, Kautilya, Rajaram Mohan Roy, Swami Vivekananda, Lokmanya Bal Gangadhar Tilak, Shri Aurobindo Ghosh, Mahatma Gandhi, Pt. Jawaharlal Nehru, Subhas Chandra Bose, Dr. Bhimrao Ambedkar, M.N.Roy, Ram Manohar Lohia, Jayprakash Narayan, Pt. Deendayal Upadhyay, Pandita Ramabai, Tarabi Shinde, Savitribai Phule, Kamaladevi Chattopadhyay	10
7	B.A. II YEAR	HINDI LITERATURE	MAJOR - I	Hindi Gadhya	Aadhunik Hindi Gadhya Sahity ki prasthbhoomi Avam Uday Ke Karan,Hindi Kahani,Hindi Natay Sahity,Hindi Nibandh, Hindi ki Anay Gadhya Vidhayen	5
8	B.A. II YEAR	HINDI LITERATURE	MAJ-II/MIN/ ELEC	Anuvaad vigyan	Anuvaad ki avdharna avam chhetra,Anuvaad ki prakriya,Anuvaad ke upkaran avam anuvaad ka samajik sanskratik sandarbh,vibhinn chhetron me anuvaad ki samsyaye,anuvaad ka sampadan mulyankan aur samikshaa.	5
9	B.A. III YEAR	HINDI LITERATURE	MAJOR - I	kavyang vivechan avam janpadiy bhasha sahitya	Kavya sastriy avdharnaye,kavya ke pramukh aung,janpadiy bhasha bundeli,janpadiy bhasha ka itihās,bundeli bhasha aur itihās	5
10	B.A. III YEAR	HINDI LITERATURE	MAJ-II/MIN/ ELEC	Jnsanchar Madhyam Sidhant aur Anuprayog	Jansanchar ki Avdharna Aur Vividh Aayam,Print Patrkariya ,patrkariya prabhandhab,Drashy shravay Madhayam,New Media/Veb Media	5
11	M.A I SEM	HINDI LITERATURE	PAPER - I	Prachin avam madhykalin kavy	Surdas,Tulsidas,Bharilal Ghananad,Nanddas,meerabai, rashkhan ,keshavdas bhoshan padmakar Raheem	7
12	M.A I SEM	HINDI LITERATURE	PAPER - II	Aadhunik Hindi gadhy aur uska itihās	Natakar bhartendu harischand doct.ramkumar varma jagdeshchand mathur dharmveer bharti laxminarayanlal upanyaskar jainendr amrtlal bheeshm sahani mannu bhandhari shreelal shukl usha priyamvada	12
13	M.A I SEM	HINDI LITERATURE	PAPER - III	Bhartiy Avam Pachaty kavayshatr	Sanskrit kavasastr ras sidhant alankar sidhant dhvani sidhant oochity sidhant hindi Aalochna	6
14	M.A I SEM	HINDI LITERATURE	PAPER - IV	Hindi sahity ka itihās avam uski sanskratik prasth bhomi	nirgun sant kavi aur unka avdaan,sagun bhagati kavay,krasn bhagti kavay	3
15	M.A II SEM	HINDI LITERATURE	PAPER - I	Prachin avam madhykalin kavy	Surdas,Tulsidas,Bharilal Ghananad,Nanddas,meerabai, rashkhan ,keshavdas bhoshan padmakar Raheem	
16	M.A II SEM	HINDI LITERATURE	PAPER - II	Aadhunik hindi gadhy aur uska itihās	Usne kaha tha,duniya ka anmol ratn aakashdeep ispector matadeen chand par,parinde,raja nirvansiy teesri kasam pita bhanbhat ki aatmkatha,bhartendu harischand balmukund gupat, mahaveerprasad duvedi, agye,yashpal,amarkant,subhadra kumari chhuhan	15
17	M.A II SEM	HINDI LITERATURE	PAPER - III	BHARTIY AVAM PASCHATY KAVY SHASTR	Pleto,arastu,lunjainas,dridan,vadsvarth,kalrich, maithu arnald,T.S.eliyati.A.Richard sidhant aur vad Adhunik samikchha ki vishist pravartiya.	11
18	M.A II SEM	HINDI LITERATURE	PAPER - IV	Hindi sahity ka itihās avam uski ssakrtik prasthbhoomi	Aadhunikata ki avdharna,bhaetendu aur unka yug,duvedi yug,uttar chhya vad ki vividh pravartiya, hindi ki gadhy any vidhy	5
19	M.A III SEM	HINDI LITERATURE	PAPER - I	Aaadhunik hindi kavy	maithlisharan gupat,jayshankar prashad,soorykant tripathi,sumitranandan pant jaganaath das ratnakar,aayodhyaprasad hariodh,mahadevi varma,balkrasn sharma naveen ,makhanlal chaturvedi,harivanshrai bacchan	6
20	M.A III SEM	HINDI LITERATURE	PAPER - II	bhasha bigyan avam hindi bhasha	bhasha aur bhasha vigyanh,swyan prakriya,vyakaran,arth vigyan,sahity aur bhasha vigyan	5
21	M.A III SEM	HINDI LITERATURE	PAPER - IV	Surdas	kumbhandas, chhitswami,krashndas, prmananddas	4
22	M.A IV SEM	HINDI LITERATURE	PAPER - I	Aadhunik hindi kavy	Muktibodh Bhool galti,Andhere me,Brahmrakchhas Bbhavani Prasad Mishra	5

23	M.A IV SEM	HINDI LITERATURE	PAPER - II	bhasha vigyan avam hindi bhasha	Hindi me compuert suvidhaye	
24	M.A IV SEM	HINDI LITERATURE	PAPER - III	Natak nibandhavam any gadhy vidhy	hindi gadhy vidhao ka swaroop avam pravrti,aachary ramchandr shukal,muktibodh,harivanshrai bachhan	4
25	M.A IV SEM	HINDI LITERATURE	PAPER - IV	Surdas	Sur Sahity Ki Prashtbhoomi Jeevan avam rachnaye	1
26	B.A. II YEAR	ENGLISH LITERATURE	MAJOR - I	STUDY OF PROSE	Long Walk to Freedom, Why Gandhi Still Matters	2
27	B.A. II YEAR	ENGLISH LITERATURE	MAJOR - I	Experiments with Prose	Self Reliance, Our Motherland, Sadhana,	3
28	B.A. III YEAR	ENGLISH LITERATURE	MAJOR - I	GROUP-B-II LITERARY CRITICISM AN THORIES	The Writings of Dr. Harisingh Gour, Living with a Purpose	2
29	M.A I SEM	ENGLISH LITERATURE	PAPER - III	Fiction	Don Quixote, Robinson Crusoe, Gulliver's Travels, Tom Jones, David Copperfield	4
30	M.A I SEM	ENGLISH LITERATURE	PAPER - IV	Prose	Hero and Hero Worship, Truth and Falsehood	2
31	M.A II SEM	ENGLISH LITERATURE	PAPER - III	Fiction	Animal Farm, Oldman and the Sea, The Shroud	3
32	M.A II SEM	ENGLISH LITERATURE	PAPER - IV	Prose	My Experiments with Truth, The Discovery of India, Individual and Society, Turning Points	4
33	M.A III SEM	ENGLISH LITERATURE	PAPER - III	Indian Writing in English	My Experiments with Truth, Indomitable Spirit	2
34	M.A IV SEM	ENGLISH LITERATURE	PAPER - III	Indian Writing in English	The Modern Challenges to Religion, The Indian Identity	2
35	B.A. II YEAR	POLITICAL SC.	MAJOR - I	WESTERN POLITICAL THOUGHTS	Greek Political Thought : Plato, Aristotle's Views, Modern Political Thoughts : Niccolo Machiavelli, Thomas Hobbes, Jone Locke, Jean Jacques Rousseau, Jeremy Bentham, John Stuart Mill, Idealism in Political Philosophy : Immanuel Kant, George W.F.Hegel, Thomas Hill Green, Karl Marx, Vladimir Lenin, Harold J. Laski	14
36	B.A. II YEAR	POLITICAL SC.	MAJ-II/MIN/ELEC	INDIAN POLITICAL THINKERS	Manu, Kautilya, Rajaram Mohan Roy, Swami Vivekananda, Lokmanya Bal Gangadhar Tilak, Shri Aurobindo Ghosh, Mahatma Gandhi, Pt. Jawaharlal Nehru, Subhas Chandra Bose, Dr. Bhimrao Ambedkar, M.N.Roy, Ram Manohar Lohia, Jayprakash Narayan, Pt. Deendayal Upadhyay, Pandita Ramabai, Tarabi Shinde, Savitribai Phule, Kamaladevi Chattopadhyay	18
37	B.A. II YEAR	ECONOMICS	MAJOR - I	MACRO ECONOMICS	Definition and Different Concepts of National Income	1
38	B.A. II YEAR	ECONOMICS	MAJ-II/MIN/ELEC	Economics of Growth and Development	Concept of Economic Development and Economic Growth	1
39	M.A I SEM	ECONOMICS	PAPER - II	MACRO ECONOMICS ANALYSIS I	Public Debt Economic Development and Economic Growth	1
40	M.A III SEM	ECONOMICS	PAPER - III	Public Finance	Defination nature and development	1
41	M.A IV SEM	ECONOMICS	PAPER - IV	INDIAN ECONOMIC POLICY AND ISSUES	Framwork of indian economy policy and introduction	1
42	M.A I SEM	GEOGRAPHY	PAPER - IV	History of Geographical Thoughts	Greek, Roman and Arab Geographers, German School- Ritter, Humbolt, Ratzel, French School - Blache, American School - Sample, Davis, British School - Herbertson & Makinder	8
43	M.A III SEM	GEOGRAPHY	PAPER - II	Urban Geography	Central Place Theory of Christaller and Losch, Concentric Zone Theory, Sector Model, multiple Nuclie Model	4
44	B.SC. I YEAR	BOTANY	MAJOR - I	Applied Botany	1. History and Evolution of botany 2. Relation of plants to man and relation with other services 3. Various disciplines of botany and theirappl ications to human welfare 4. Role of Botany in Rural development 5. Ethno-food crops: Definition and examples (Local name. Botanical name, family and importance of Garadu.Singada, Kutaki. Sama. Kodo. Bathua. Sehjan.owar. Makka, Bajra, Jau	
45	B.SC. I YEAR	BOTANY	MAJ-II/MIN/ELEC	Basic Botany	1. History of Botany and indian contributions 2. Role of algae in nature and its economic importance. 3. Economic importance of Bryophytes 4. Economic importance of Pteridophytes 5. Economic importance of Gymnosperms 6. Indian contribution in Paleobotany 7. Brief knowledge of fossils and geological timescale 8. Economic importance of fungi 9. Microbes Beneficial and Harmful role 10. Study of Some Fossils	
46	B.SC. II YEAR	BOTANY	MAJOR - I	Plant Anatomy and Embryology	1. History and Imortance of Embryology	

47	B.SC. II YEAR	BOTANY	MAJ-II/MIN/ELEC	INDUSTRIAL BOTANY	1. Grants and funding provider organizations of India 2. Different type of industries	
48	B.SC. III YEAR	BOTANY	MAJ-II/MIN/ELEC	ETHANOBOTANY	1. Major and minor ethnic groups or tribals of india and their life-styles 2. Ethnobotany as an interdisciplinary science 3. Plants in mythology, Taboos and totems in relation to plants, folklore and folktales, 4. Wildlife protection in tribals. Plants in similes and metaphors 5. Ethnobotany and legal aspects. 6. Ethnobotany as a tool to protect interests of ethnic groups. 7. Sharing of wealth concept with few examples from India. 8. Biopiracy, Intellectual Property Rights and Traditional Knowledge. 9. Role of Peoples Biodiversity Register (PBR) and Biodiversity Management committees(BMC).	
49	M.SC I SEM	BOTANY	PAPER - I	Biology and diversity of bryophyta and pteridophyta	1. Ecology and importance of Brytophyta	
50	B.SC. I YEAR	CHEMISTRY	MAJ-II/MIN/ELEC	FUNDAMENTAL OF CHEMISTRY	CHEMICAL TECHNIQUES IN ANCIENT INDIA: Contribution of ancient indian scientists in chemistry, metallurgy, pigments, dyes, cosmetics, ayurveda, Charak samhita.	7
51	B.SC. II YEAR	CHEMISTRY	MAJOR - I			
52	B.SC. II YEAR	CHEMISTRY	MAJ-II/MIN/ELEC	TRANSITION ELEMENTS, CHEMICAL ENERGIES, PHASE EQUILIBRIUM.	Knowledge Tradition of Indian Chemistry: Ancient indian chemists and their works Nagarjuna, Vaghata, Givindacharya, Yashodhare, Ramchandra, Somadeva, etc., Introductory ideas about rasas Manin rasa: Mahares, Uparas, Common ras, Ratna, Dhatu, poison, alkali, acid, salt, lauhabhasma; Maharas: Abram, Vaikrant, Bhasik, Vimala, Shilajatu, Sasak, Chapala, Rasak, Uparas, Gandhak, Garik, Kashis, , Suvari, Lalak, Manash, Shila, Anjana, Kankushtha. Common Rasa: Koyla, Gaulpashan; Navasara, Varataka, Agnihar, Lajavarta, Giri Sindoor, Hingul, Murdad Sharangakam.	49
53	B.SC. III YEAR	CHEMISTRY	MAJ-II/MIN/ELEC	PHARMACEUTICAL AND MEDICINAL CHEMISTRY	Codes of pharmaceutical ethics, Pharmacopoeia and its history, Scope and development of pharmacognosy.	3
54	M.SC I SEM	CHEMISTRY	V(A) PAPER	MATHEMATICS FOR CHEMISTS	Vectors, dot, cross and triple products etc, gradient. Divergence and curl, Vector Calculus. First-order and first degree differential equations. First-order and first degree differential equations. Homogeneous, exact and linear equations. Kinetic theory of gases.	14
55	M.SC II SEM	CHEMISTRY	V PAPER	COMPUTER FOR CHEMISTS	Introduction to computers and Computing - Basic structure and functioning of computer with a Pc, principles of programming Algorithms and flow-charts, Developing of small computer codes using any one of the languages FORTRAN/C/BASIC involving simple formulae in Chemistry, such as Van der Waals equation	5



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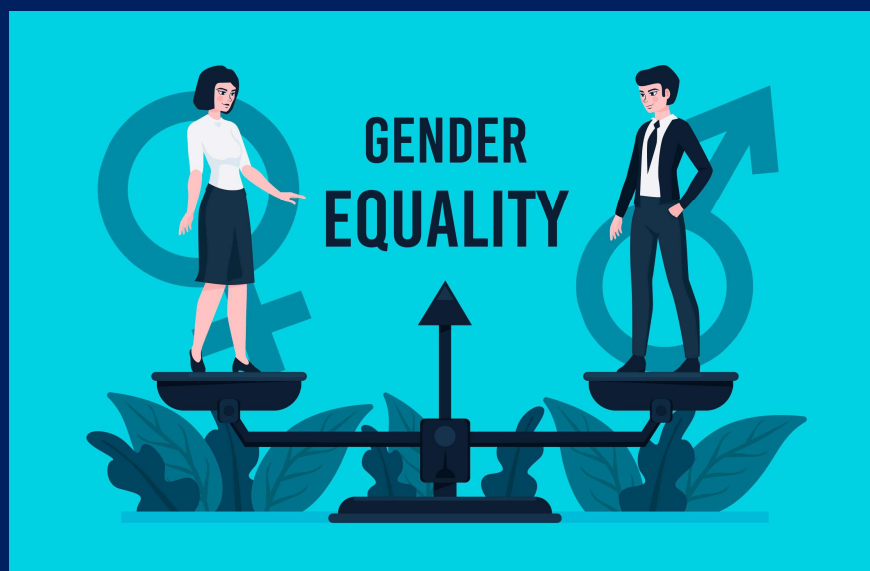


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GENDER EQUALITY



GOVT. COLLEGE, BICHHUA, DISTRICT - CHHINDWARA (M.P.)

LIST OF CROSS CUTTING ISSUES

S.No.	Class	Subject	Paper	Paper Title	Topic	No. of Topics
Gender Equality						
1	UG III YEAR	FC-II	SECOND	WOMEN EMPOWERMENT	History, concept and dimensions of Women Empowerment, constitutional provisions for women empowerment, Women Empowerment Issues and Challenges, Financial Awareness Among Women	13
2	B.A. II YEAR	HINDI LITERATURE	MAJOR - I	HINDI Gadhya	Subhadra Kumari chohan, Mahadevi Verma	1
3	M.A II SEM	HINDI LITERATURE	PAPER - II	Hindi Sahitya kalitihash Avam Uski Ssanskrtik Prasthbhoomi	Stri Vimarsh	1
4	M.A IV SEM	HINDI LITERATURE	Paper III	Natak nibandh tatha any a gadhy vidhaye	Mhadevi varma	1
5	B.A I YEAR	ENGLISH LITERATURE	MAJ-II/MIN/ELEC	Study of Poetry	Wife of Bath	1
6	B.A. II YEAR	ENGLISH LITERATURE	MAJ-II/MIN/ELEC	Study of Fiction	Pride and Prejudice, Middlemarch, Mrs. Dalloway	3
7	B.A. III YEAR	ENGLISH LITERATURE	MAJOR - I	Group -B -II Literary Criticism and Theories	Feminist Literary Criticism	1
8	M.A I SEM	ENGLISH LITERATURE	PAPER - III	Fiction	Mansfield Park, Wuthering Heights, The Mill on the Floss, Tess of the d'Urbervilles	4
9	M.A II SEM	ENGLISH LITERATURE	PAPER - II	Drama	A Doll's House	1
10	M.A II SEM	ENGLISH LITERATURE	PAPER - III	Fiction	Mrs Dalloway	1
11	M.A III SEM	ENGLISH LITERATURE	PAPER - IV	Women's Wrting	Phenomenal Women, The Stone Age, Burn the Saree, A Desire in the Bangels, Crossing the River, Night Mother, Lajja, Ladies Coupe, Real and Imagined Women	10
12	M.A IV SEM	ENGLISH LITERATURE	PAPER - III	Post-Colonial Fiction	So Many Hungers, A Nectar in a Sieve, Mistakenb Identity	10
13	M.A IV SEM	ENGLISH LITERATURE	PAPER - III	Literature and Translation	Lihaf (The Quilt)	7
14	B.A. II YEAR	SOCIOLOGY	MAJ-II/MIN/ELEC	Social Change & Development	Westernization ,Urbanization ,Modernization ,Globalization	4
15	M.A II SEM	SOCIOLOGY	PAPER - III	Rural Society in India	Gender and Development ,Empowerment of Rural India India,Modernization ,Globalization,	4

16	M.A II SEM	SOCIOLOGY	PAPER - IV	Urban Society in India	Impact of westernization process in India ,Modernization ,Globalization ,Roll of mass Media	4
17	M.A III SEM	SOCIOLOGY	PAPER - III	Sociological Eassay	Women Impowerment ,Child Labour ,Youth Welfare,Domisetic Violence	4
18	M.A I SEM	POLITICAL SC.	PAPER - I	COMPARATIVE POLITICS	SOCIOOLIST SOCIESTES, GENDER	
19	M.A IV SEM	POLITICAL SC.	PAPER - I	ADVANCE POL. THEORY	SVANTRATA KA VICHAR AUR SAMANTA SAMBANDH, FEMINISM	
20	M.A IV SEM	POLITICAL SC.	PAPER - II	POLITICAL PROCESSES IN INDIA	HUMAN DEVELOPMENT INDEX, GENDER INEQUALITY	
21	B.A. III YEAR	ECONOMICS	MAJOR - I	Gender Economics	1. Become Familiar with theoretical concepts in the area of gender economics. 2. Develop the ability to understand the methodology of gender analysis. 3. Develop the ability to understand the demography of female population and its role in development 4. Analyse the various gender issues affecting developments.	3
22	M.A IV SEM	ECONOMICS	PAPER - II	Demography-I	Meaning and scope of demography	1
23	B.A I YEAR	GEOGRAPHY	MAJ-II/MIN/ELEC	physical and cultural aspect	POPULATION GROWTH AND SEX RATIO	1
24	M.A IV SEM	GEOGRAPHY	PAPER - II	Population Geography	Population Distribution & Density, Age & Sex Composition, Literacy & Education, Population growth and sex ratio, Fertility & Mortality	4



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ENVIRONMENTAL SUSTAINABILITY



GOVT. COLLEGE, BICHHUA, DISTRICT - CHHINDWARA (M.P.)

LIST OF CROSS CUTTING ISSUES

S.No.	Class	Subject	Paper	Paper Title	Topic	No. of Topics
Environmental Sustainability						
1	UG I YEAR	FC-I	FIRST (ENGLISH)	ENGLISH LANGUAGE & INDIAN CULTURE	The Axe	1
2	UG I YEAR	FC-II	SECOND	ENVIRONMENTAL EDUCATION	ENVIRONMENT AND NATURAL RESOURCES, BIOME, ECOSYSTEM AND BIODIVERSITY, ENVIRONMENTAL POLLUTION, MANAGEMENT AND SOCIAL ISSUES	40
3	UG II YEAR	FC-I	FIRST (ENGLISH)	ENGLISH LANGUAGE & FOUNDATION	The Daffodils	1
4	UG III YEAR	FC-I	FIRST (HINDI)	LANGUAGE & CULTURE	Satpura ke ghanee jangal, Aagan ka panchhi	2
5	B.A I YEAR	HINDI LITERATURE	MAJOR - I	HINDI KAVYA	Kamayani ke shraddha sarg se prakati ke yovan ka srangaar krenge kabhi na basi phool se, Nadi ke dheep, yah dheep akela, Akaal aur uske baad, Baadal ko gherte dekha.	3
6	B.A. III YEAR	HINDI LITERATURE	MAJOR - I	kavyang vivechan avam janpadiy bhasha sahitya	Prakritiparakh phage.	1
7	M.A IV SEM	HINDI LITERATURE	PAPER - I	Aadhunik hindi kavya	Nadee ke dheep, aasadhiveena, yah dheep akela, kalgibajre ki, harighhas par chhan bhar satpura ke ghanee jangal, baadal ko gheerte dekha, akal aur uske baad	8
8	B.A I YEAR	ENGLISH LITERATURE	MAJ-II/MIN/ELEC	Applied Poetry	Ode to West Wind,	1
9	B.A I YEAR	ENGLISH LITERATURE	MAJ-II/MIN/ELEC	Study of Poetry	Ode to Autumn,	1
10	B.A. III YEAR	ENGLISH LITERATURE	MAJOR - I	Group -B -II Literary Criticism and Theories	Eco Criticism	1
11	M.A I SEM	ENGLISH LITERATURE	PAPER - I	Poetry	Elegy Written in Country Church Yard, Ode to Evening	2
13	M.A II SEM	ENGLISH LITERATURE	PAPER - I	Poetry	Tintern Abbey, Ode to Nightangle, Ode to West Wind	3
14	M.A IV SEM	ENGLISH LITERATURE	PAPER - IV	Environmental Literature	Literary Studies in the Age of Environmental Crisis, Toward an Environmental Justice Ecocriticism, Women and Environment, Staying Alive, The Felling of Banyan Tree, On Killing a Tree, Cherry Tree, Dust on the Mountain, The Hungry Tide, Battels of the Ants, Water	10
15	M.A III SEM	SOCIOLOGY	PAPER - III	Sociological Essay	Environment	1
16	M.A I SEM	POLITICAL SC.	PAPER - III	INTERNATIONAL POLITICAL THEORY	PARYAVARNIYA MUDDE	
17	M.A IV SEM	POLITICAL SC.	PAPER - I	ADVANCE POL. THEORY	ENVIRONMENTALISM	

18	M.A IV SEM	POLITICAL SC.	PAPER - II	POLITICAL PROCESS IN INDIA	PRAYAVARAN	
19	B.A I YEAR	ECONOMICS	MAJ-II/MIN/ELEC	INDIAN ECONOMY	1.Natural Resource Endowments- Land, Water, Livestock, Forest and Minerals 2 Green Revolution- Objectives, Achievements and Failures 3. Development of Tourism in Madhya Pradesh .	3
20	B.A. III YEAR	ECONOMICS	MAJOR - I	Economics of Growth and Development	Interlinkages Between Environment and Development	1
21	B.A I YEAR	GEOGRAPHY	MAJ-II/MIN/ELEC	NATURAL RESOURCES	Green revolution, tribes and tourism, socio economic environment, environment and ecology, sustainable environment management,	5
22	M.A II SEM	GEOGRAPHY	PAPER - IV	Geography of Environment	Concept & Theories, Geography of Environment, Ecosystem, forests, agriculture, conservation of Environment	4
23	M.A IV SEM	GEOGRAPHY	PAPER - IV	Biogeography	Scope & Development of Biogeography, Environment, Habitat and Plant, Biome, Elements of Plant Geography	4
24	B.COM I YEAR	COMMERCE	MAJ-II/MIN/ELEC	BUSINESS REGULATORY FRAMEWORK		
25	B.SC. I YEAR	BOTANY	MAJOR - I	Applied Botany	1.Definition and types of pollution and pollutants 2.Phyto remediations 3.Bio-remediations 4.Role of Botany in rural development 5.Ethnobotany 6.Ethnomedicine 7.EthnoFibres 8.EthnoFood crops 9.Plant tissue culture 10.DNA recombinant techniques 11.BioInformatics	11
26	B.SC. I YEAR	BOTANY	MAJ-II/MIN/ELEC	Basic Botany	1.History of Botany and indian contributions 2.Role of algae in nature and its economic importance. 3.Economic importance of Bryophytes 4.Economic importance of Pteridophytes 5.Economic importance of Gymnosperms 6.Indian contribution in Paleobotany 7.Brief knowledge of fossils and geological timescale 8.Economic importance of fungi 9.Microbes Beneficial and Harmful role	9
27	B.SC. III YEAR	BOTANY	GROUP A - I	Plant physiology and metabolism	1.Plant-Water Relations 2.Transport of Organic Substances 3.Photosynthesis 4.Nitrogen Metabolism 5.Respiration and Bioenergetics 6.Lipid Metabolism 7.Enzymology 8.Plant Hormones 9.Growth and Development	9

28	B.SC. III YEAR	BOTANY	GROUP -A - II	Ecology and Forestry	1.Introductory Ecology 2.Ecological Factors 3.Ecosystems 4.Phytogeography 5.Forestry	5
29	B.SC. III YEAR	BOTANY	MAJ- II/MIN/ ELEC	Ethnobotany	1.Plant used by tribals 2.Plants in mythology 3.Medico-ethnobotanical sources in India; 4.Significance of plants in ethno botanical practices 5.Role of ethnobotany in modern medicine 6.Role of Ethnic groups in conservation of plant genetic resources 7.Endangered taxa and forest management 8.Study of common Plants in Skin Diseases	8
30	M.SC I SEM	BOTANY	PAPER - I	Biology and diversity of viruses bacteria and fungi	1.Economic importance of virus 2.Economic importance of fungi in history in industry medicines and food 3.Mushroom cultivation 4.Production of alcoholic beverages 5.Antibiotics and organic acids,	5
31	M.SC I SEM	BOTANY	II	Biology and diversity of algae	1. Algal blooms 2. Algal biofertilizers, 3. Algae as food and feed 4. Industrial uses of algae	4
32	M.SC I SEM	BOTANY	III	Biology and diversity of bryophyta and pteridophyta	1. Ecology and importance of Brytophyta	1
33	M.SC I SEM	BOTANY	IV	Biology and diversity of gymnosperms.	1. Distribution of living gymnosperms in India 2. Economic importance of gymnosperms 3. Indian contribution of gymnosperms	3
34	M.SC II SEM	BOTANY	PAPER - I	Taxonomy of Angiosperms	1. Herbarium 2. Botanical gardens 3. Taxonomic literature 4. Local Plant diversity and its economic importance	4
35	M.SC II SEM	BOTANY	PAPER - II	Morphology Anatomy and Embriology of Angiosperms	1. Ecological anatomy of Stems, root, and leaf of Xerophytes, Halophytes, Hydrophytes, Epiphytes, Mesophytes, parasites	1
36	M.SC II SEM	BOTANY	PAPER - III	Plant Ecology	1. Ecosystem 2. Fate of energy and matter in ecosystem 3. Trophic organization 4. Air water and soil pollution 5. Biomes	5

38	M.SC III SEM	BOTANY	PAPER - I	Plant physiology	1. Principles of thermodynamics 2. Plants and inorganic nutrients 3. Photochemistry and photosynthesis 4. Respiration 5. Sensory photobiology 6. Stress physiology	6
39	M.SC III SEM	BOTANY	PAPER - IV	Conservation and utilization of plant resources	1. Plant biodiversity 2. Sustainable development 3. Strategies for conservation of resources , social forestry 4. Green revolution 5. Resource monitoring 6. Remote sensing	6
40	M.SC IV SEM	BOTANY	PAPER - I	Biotechnology Tissue Culture and Genetic Engineering	1, Environment biotechnology and ethics 2. Intellectual property rights	2
41	M.SC IV SEM	BOTANY	PAPER - III IA	Ethnobotany	1. Wild edible plants used of ethnic people 2. Detailed study of common plants and their parts used in the treatment of different diseases 3. Plants in mythology 4. Plants used in various system of medicines, Ayurvedic, Unani, Homeopathic, Allopathic systems 5. General idea of active principles of plants and their parts	5
42	M.SC IV SEM	BOTANY	PAPER - III 2A	Limnology	1. Food chain 2. Food web 3. Trophic levels and Energy flow in fresh water ecosystem 4. Ecological classification of fresh water organisms 5. Categories of aquatic higher plants	5
43	M.SC IV SEM	BOTANY	PAPER - IV 2B	Applied Mycology	1. Fungi as a pathogen to plants 2. Fungal diseases of human beings and animals 3. Principles of Fungal disease management 4. Fungi in agriculture 5. Importance of Mycorrhiza	5
44	M.SC IV SEM	BOTANY	PAPER - IV 2C	Forest Ecology	1. Classification of forest Biomes 2. Wildlife conservation and related legislation 3. Forest Ecology	3
45	M.SC IV SEM	BOTANY	PAPER - IV 2D	Environmental Biology and pollution ecology	1. Basic concept and applications of eco-technology, vermitechnology and bioremediation 2. Monitoring and analytical methods for air, water, and soil pollution 3. Biological indicators of air pollutions 4. Heavy metals and their effect on Biota 5. Concept of bioaccumulation and biomagnification	5
46	B.SC. III YEAR	ZOOLOGY	MAJOR - I	ECOLOGY AND APPLIED ZOOLOGY	Concept Of Ecology, Habitat Ecology, Wild Life and Environment, Pollution, Endangered Species Of India, Population Concept, Community	7

47	B.SC. III YEAR	CHEMISTRY	MAJOR - I	GREEN AND AGREECULTURE CHEMISTRY	Concepts and principal of Green chemistry: History and evolution of twelve principles of green chemistry and their explanation with examples. Tool of green solvents, Metrics of green chemistry, Challenges and scope of green chemistry in India. Green Catalysis and Processes: Green synthesis of the following compounds.	7
48	B.SC. III YEAR	CHEMISTRY	MAJ-II/MIN/ELEC	PHARMACEUTICAL AND MEDICINAL CHEMISTRY	Importance of pharmaceutical chemistry, Drug and cosmetics, Clinical trial of drug, Natural drug sources.	4
49	M.SC III SEM	CHEMISTRY	PAPER - III	ENVIRONMENTAL CHEMISTRY	Atmosphere Atmospheric layers. Vertical temperature profile. heat/radiation budget of the earth atmosphere systems. Properties of troposphere. thermodynamic derivation of lapse rate. Temperature Inversion. Calculation of global mean temperature of the atmosphere. Biogeochemical cycles of carbon, nitrogen, sulphur, phosphorus, oxygen. Residence times. Atmospheric Chemistry Sources of trace atmospheric constituents : nitrogen oxides. Sulphur dioxide and other sulphur compounds. carbon oxides. chlorofluorocarbons and other halogen compounds. methane and other hydrocarbons Tropospheric Photochemistry Mechanism Photochemical decomposition of N_2O and formation of ozone Formation of hydroxyl, hydroperoxy and organic radicals and hydrogen peroxide. Reactions of hydroxyl radicals with methane and other organic compounds, Reaction of OH radicals with SO_2 and NO_2 . formation of Nitrate radical and its reactions. Photochemical smog meteorological conditions and chemistry of its formation. Air pollution, acid rain, green house effect, urban air pollution, Aquatic chemistry and water pollution, Environmental toxicology, and soil pollution.	33
50	M.SC IV SEM	CHEMISTRY	V (OPTIONAL) PAPER	INDUSTRIAL CHEMISTRY : PESTICIDE AND GLASS INDUSTRIES	UNIT 1- Cleansing Agents Cleansing Agents : Toilet and washing soaps: preparation and uses. Synthetic detergents; alkyl aryl sulfonates, fatty alcohol surfactants. ethoxylated nonionic detergents. Unit II Fertilizers and Inorganic Materials: Fertilizers : Fertilizers Industries in India, Manufacture of Ammonium salts. Urea, Nitrates, Phosphates and Super phosphates, Nitrogen fixation. Glass: Types, their composition and properties testing glass. Manufacture of Glass Fibres. Optical Glass, Colored Glasses, Lead Glass and Neutron Absorbing Glass. Ceramics: Important clays and feldspar. Glazing and vitrification, Glass ceramics. Unit III Cement : Types and their manufacture, setting process. Ferrous Industry: Manufacture of steel and other important alloys. Silicon : Pre silicon, Electronics Industry. Unit IV Pesticides and Food additives Pesticides and Food additives : Classification. important categories of insecticides, fungicides, herbicides and rodenticides ; Mode of action. Unit V Chemistry and synthesis of common pesticides : DDT and Tabun. Sarin. DVP and DDVP	42