

Raghunath Girls' Post Graduate College, Meerut

Affiliated to

Chaudhary Charan Singh University, Meerut

UG Classes

1 year 1 semester

Minor Papers

(Under NEP 2020)

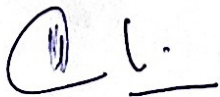
Raghunath Girls' Post Graduate College, Meerut

Affiliated to

Chaudhary Charan Singh University, Meerut

UG I year I semester

S.No.	Faculty	Under Subject	Paper Name	Code	Applicable for
1	Arts	History	Kuru Kingdom Through the Ages (3000 BC to 2000 BC)	Q10001	Science & Commerce
2	Arts	Philosophy	Applied Ethics	Q10003	Science & Commerce
3	Arts	Economics	Basic Economics	Q10004	Science & Commerce
4	Arts	Physical Education	Health: Personal & Environmental	Q10005	Science & Commerce
5	Arts	Psychology	Promoting Personal Group & Relationship Through Psychology	Q10030	Science & Commerce
6		Home Science	Maternal & Child Nutrition	Q10040	Science & Commerce
7	Science	Botany	Disaster Management System in India	Q10006	Arts & Commerce
8	Science	Physics	Science & Atmosphere & Climate Change	Q10007	Arts & Commerce
9	Science	Zoology	Environment & Public Health Challenges	Q10008	Arts & Commerce
10	Language	Sanskrit	Sanskrit Sahitya Mein Rashtra Chintan	Q10038	Science & Commerce
11	Commerce	Commerce	Business Communication	Q10037	Arts & Science




Principal
Raghunath Girls' Post Graduate College
Meerut

Minor
UG Iyr. I sem. Q10001 (only for Science & Commerce)

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Programme/Class	Degree	Year	B.A.	Semester	I
Subject	History				
Course Code		Course Title	Kuru Kingdom Through the Ages (History, Culture and Archaeology) (3000 BC - 2000 AD)		

Course Outcome

History is an over all study of past which according to the oldest Indian wisdom, aims to make an individual perfect to achieve the 'Purushartha-Chastushtya' for better understanding of the past this paper is designed keeping in mind the very glorious part of the ancient Indian people responsible to create Indus Saraswati Civilization the Vedic culture the great epic of the Mahabharat. This is the region whose people were responsible to start the Indian Revolution of 1857 from Meerut against the mighty Colonial British Imperialism. The catchment area of the Chaudhary Charan Singh University, Meerut is the epicentre of the region under study. This region also witnesses the participation of people in the Gandhian movements at large.

Credit - 5

Max. Marks: 100

Min. Passing Marks : 33

Total no. of Lectures - Tutorials Practical (in hours per week) : 5-0-0

Unit	Topic	No. of Lecture
I	Nomenclature and Geographical identities of Kuru, Kurukshtra and Kurujangal, References of the Kurus, the Purus and the Bharatas in the Vedic text, Kuru-Panchala, Hastinapur and Indraprastha.	10
II	Indus-Saraswati Civilization: Important Sites-Kalibangam, Sindauli Sadiqpur, Alamgirpur, Mandi.	10
III	Historicity of the Mahabharata War, Hastinapur and Indraprastha.	10
IV	Kuru Region in Historical Age: Important sites - Hastinapur, Indraprastha, Thaneshwar, Kurukshetra.	05
V	First Battle of Tarain 1191 AD.	10
VI	Three Battles of Panipat, Maratha Movements, Sindhia and Holkar in Meerut and Delhi region Battle of Delhi (Patparganj/Jeetgarh 1803 AD), East India Company's Battles in the region under study, Surjijanangaon Treaty.	10
VII	Indian Revolution of 1857 in the Kuru Region: Outbreak, Nature and People's Participation.	10
VIII	Heroes of Meerut in Freedom Struggle and Wars : Gandhian Movements and Goa Mukti Sangram, Indo-Pak Wars, Indo-China War; Indo-Pak War of 1965, Jat Regiment and Major Asharam Tyagi; Kargil War (Martyres).	10

H. Khatu

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18-06-2021
HEAD
Department of History
Ch. Charan Singh University
Meerut

Minor

UG Iyr. Isem. Q10003 (only for science & Commerce)

Minor:
Paper I
(Theory)

Programme/Class: Graduation	Year:	Semester: I
Subject: Philosophy		
Course Code:	Course Title: <u>Applied Ethics</u>	
Course outcomes: By studying this course, a student will understand and resolve various ethical issues in contemporary world situations.		
Credits: 6		
Max. Marks:		Min. Passing Marks:
Total No. of Lectures-Tutorials-Practical (in hours per week): I -T-P: 6-0-0		
Unit	Topics	No. of Lectures
I	Definition, nature and scope of ethics and applied ethics	08
II	Medical ethics: Ethical issues in Euthanasia, Surrogacy, Female infanticide and Abortion	11
III	Media ethics: Ethical issues and dilemma faced by Reporters and Photo journalists, Digital media ethics- Social media, Blogging, Digital photo journalism and Online journalism	11

IV	Legal ethics: Duties of Advocates, Bar-bench relationship, Justice for all, Theories of Punishment	12
V	Business ethics: Corporate governance and Social responsibility, Fiduciary responsibility, Child labour, Food adulteration, Globalisation.	12
VI	Ethical implications of information technology: Cybercrime, Phishing, Hacking, Piracy, Click-fraud, Virus, Identity theft, System-security, Data loss, Unauthorised access, Biometric identification	12
VII	Environmental ethics: Homocentric values and Cosmo-centric values, Save the earth- Air, Water, Soil, Forest, Living species through sustainable development. Deep ecology by Arne Naess, Biospherical egalitarianism, Chipko movement by Sundarlal Bahuguna, theory of Wantlessness by J.K.Mehta, effective Altruism of Peter Singer	12
VIII	Ethics in governance: Information sharing and transparency in government and private institutions, Probity, impartiality and accountability in public administration, Right to information (RTI)	12

Suggested Readings:

1. Coady, David, Brownlee Kimberley and Rasmussen, Kasper Lippert "A Companion to Applied Philosophy" (ed.), John Wiley and Sons Ltd., UK, 2017.
2. Frankl, Victor E., "Man's Search for Meaning", Rider, Great Britain, 2008.
3. Frankl, Victor E., "Jeevan ke Arth ki Talash me Manushya", Wow Publishing Pvt. Ltd., Pune, Maharashtra, 2020.
4. Frey, R. G. and Wellman, Christopher Heath, "A Companion to Applied Ethics" (ed.), Blackwell Publishing Ltd, Germany, 2003.
5. Guha, Debashis, "Practical and Professional Ethics (Vol. 2): Environmental Ethics", Concept Publishing Co., New Delhi, 2007.
6. Jatashankar, "Naitik Darshan ke Vividh Ayam", Shri Bhuvaneshvari Vidya Pratishthan, Allahabad, 2003.
7. Naagarazan, R.S., "A Textbook on Professional Ethics and Human Values", New Age International (P) Limited Publishers, New Delhi, 2006.
8. Subramanian, R., "Professional Ethics", Oxford University Press, USA, 2013.
9. Dixit, Rajiv, "Paryavaran Darshan" Nikhil Publishers and Distributors, Agra, first edition, 2020
10. Vinod kumari (Editor), "Issues in Applied Philosophy" Satyam Publishing House, New Delhi, 2009
11. Pandey, A.K., "Bharatiya Darshan me Paryavaran Chetana", Hindustani Academy, Allahabad

Suggestive digital platforms web

links-

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<http://www.context.upsdc.gov.in/home.aspx>

This course can be opted as minor paper by the students of following subjects: Open to All

UG Iyr. Isem. Minor
Q10004 (only for science & Commerce)

Minor Paper-1(Economics) UG I Sem
BASIC ECONOMICS

- Unit - I:** Scope and Method: Nature of Economic Laws: Micro economics *versus* Macro Economics; Concept of margin; Cardinal *versus* Ordinal; approach of Utility; Indifference curve analysis and its properties; Consumer Surplus, and Consumer's equilibrium.
Demand Analysis: Demand function and law of demand; Concept of elasticity-price, cross and income elasticity of demand.
- Unit - II:** Economic Systems: Capitalism, Socialism and Mixed economy; Problem of resource allocation.
- Unit - III:** Production: Production function, Combination of factors, Laws of production- Returns to scales, Law of variable proportions; Isoquant and its properties.
- Unit - IV:** Nature of Costs and Markets: Cost functions- Short-run and long-run cost curves; Structure of Markets: Nature of perfect competition, monopoly and monopolistic competition; Equilibrium of firm.
- Unit - V:** National Income Analysis: Concepts, Methods of measurement; Circular flow of income; Concept of inflation and employment; Sources of income - Central, State and Local Governments in India.

Books Recommended:

1. An Introduction to Positive Economics - R. G. Lipsey
2. Economics - Samuelson and Nordhaus
3. Modern Micro Economics - A. Koutsoyiannis
4. Principles of Micro Economics - Mankiw
5. Principles of Macro Economics - Mankiw
6. Advanced Economic Theory - H. L. Ahuja
7. Micro Economic Theory - Gould and Ferguson
8. Indian Economy - A. N. Agarwal
9. Public Finance - I. N. Hazela



Minor
UG Ist Semester @ 10005 (Only for Commerce & Science)

SYLLABUS FOR MNOR SUBJECTS

FIRST PAPER: PHYSICAL EDUCATION

UG-I

SUBJECT : PHYSICAL EDUCATION - <u>THEORY</u>		
Course Code:	Course Title: Health : Personal & Environmental	
Credits : 04		General Elective
<p>Course Outcomes: Students can be able to understand various aspects of health with respect to personal and environmental. In this subject students will study about personal health, environmental health. Personal Health is the ability to take charge of your health by making conscious decisions to be healthy. Environmental Health focuses on the interrelationships between people and their environment, promotes human health and well-being, and fosters healthy and safe communities.</p>		
Max. Marks : 25+75		Min. Passing Marks : 10 + 25
Total No. of Lectures-Tutorials-Practical (in hours per week): -TLP:4-0-0		
UNIT	TOPIC	NO. OF LECTURES
I ✓	<p>HEALTH & HEALTH EDUCATION</p> <ul style="list-style-type: none"> • Meaning & Definition of Health Education • Aim, objective and Principles of Health Education • Scope & Importance of Health Education • Meaning & Definition of Health • Dimensions of Health 	06
II ✓	<p>NUTRIATION, NUTRIENTS AND DIET</p> <ul style="list-style-type: none"> • Meaning & Definition of Nutrition, Nutrients & Diet • Basic Nutrition Guidelines • Sources of Nutrients : Macro & Micro Nutrients • Adulteration & Malnutrition • Balance Diet & Preparation of Dietary Chart 	07
III ✓	<p>HEALTH PROBLEMS</p> <ul style="list-style-type: none"> • Obesity & their Management • Personal and Environmental Hygiene • Environmental Sanitation • Care of Skin, Eyes, Ears, Teeth & Nose • Brief Introduction to Air Pollution, Water Pollution, Soil Pollution, Noise Pollution, Thermal Pollution 	08
IV ✓	<p>DISEASES : COMMUNICABLE & NON COMMUNICABLE</p> <ul style="list-style-type: none"> • Meaning & Definition of Disease, Congenital Disease & Acquired Disease • Meaning & Definition of Communicable & Non Communicable Disease • Communicable Diseases (Contagious & Non Contagious) - Viral Diseases & Bacterial Diseases, 	08

	<ul style="list-style-type: none"> • Non Communicable Diseases – Blood Pressure, Diabetes 	
V	<p>POSTURE AND POSTURAL DEFFORMITIES</p> <ul style="list-style-type: none"> • Meaning & Definition of Posture • Causes of Bad posture • Postural Deformities & their Correctives Exercises & Yogasanas 	08
VI	<p>FIRST AID</p> <ul style="list-style-type: none"> • Meaning & Definition of First Aid • Qualities of First Aider • Dressing & Bandages for Wound, Soft Tissue Injury, Bone Injury & Joints Injury • Hand Washing & Hygiene • Dealing with an Emergency like Cardiac Arrest- Resuscitation (Basics) • Fast Evacuation Techniques • Transport Techniques 	07
VII	<p>PSYCHOLOGICAL & MENTAL HEALTH</p> <ul style="list-style-type: none"> • Meaning & Definition of Mental Health • Mental Health Problems in the India • Mental Health First Aid Action Plan • Understanding Depression and Anxiety Disorders 	08
VIII	<p>ENVIRONMENTAL HEALTH</p> <ul style="list-style-type: none"> • Definition, Scope, Need and Importance of Environmental Health. • Concept of Environmental Health • Tree Plantation, Plastic Recycling & Probatation of Plastic Bag / Cover. • Celebration World Environment Day and it's Importance 	08

Suggested Readings:

- Griffith H. Winter (1986). Complete Guide to Sports Injuries, The Barkley Publishing Group, New York.
- Herman Koren & Michael S. Bisesi (2018). Handbook of Environmental Health, CRC Press LLC, Broken Sound Parkway Northwest, Suite 300 Boca Raton, FL 33487 United States
- Norris, C.M. (1997). Sports Injuries- Diagnosis and Management for Physiotherapists, Butterworth Heinemann, Lanacre House, Jordan Hill, Oxford OXZSDP, A division of Reed Educational and Professional publishing Ltd. New Delhi
- Pandey, K.G. (2011). Sharirik Siksha, Shri Gyan Sagar Publication, Meerut
- Park, K. (2009), Preventive and Social Medicine, M/s Banarsidas Bhanot Publishers, 1167, Prem Nagar, Jabalpur
- Pearce, Evelyn C. (1997), Anatomy & Physiology for Nurses, Jaypee Brothers, New Delhi
- Singh, S. N. (2018). Swasth Siksha, Khel Sahitya Kendra, Daryaganj, New Delhi

UG, Iyr. I Sem. (only for Minor Science & Commerce) Q 10030
CHAUDHARY CHARAN SINGH UNIVERSITY, MEERUT

SYLLABI OF MINOR PAPERS FOR BA PSYCHOLOGY UNDER THE AEGIS OF THE NATIONAL EDUCATION POLICY-2020
 Note: These papers are offered as options (minors) to students of other departments/ faculties.

Program/Class: Certificate		Year: First	Semester: First
Subject: Psychology			
Course Code: 010030		Course Title: Promoting personal growth and relationships through Psychology	
Course Outcomes: The students will know and understand how psychology can be used for personal growth and enhancing relationships. A brief introduction to various important and interesting topics will inspire the students to begin a journey of self-discovery and promote meaningful social relationships.			
Credits: 6		Minor (Optional)	
Max. Marks: 25+75		Min. Passing Marks: 10+25	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 6-0-0			
Unit	Topics	No. of Lectures	
I	Managing Emotions: Basic and Self Conscious emotions, Emotional Intelligence; Cultivating Positive Emotions: Flourishing, Strengths and Virtues.	11	
II	Enhancing attention and memory: Focusing attention, Dual tasking and multi-tasking, Cognitive capacity, Bilingual advantage, Training for enhancement of cognitive capacity	12	
III	Motivating yourself: Rewarding yourself for success, Visualizing and achieving success; Delaying gratification; Attribution styles and dealing with failure	11	
IV	Problem solving: Concepts and strategies; Creative thinking: Factors affecting creativity; Enhancing creativity in individuals and groups.	11	
V	Managing interpersonal relations: Unconditional Positive Regard, Empathy, Listening and acceptance, Gratitude, Assertiveness; Benefits of social support	11	
VI	Stress and Coping: Reactions to Stress, Appraisal, Coping resources and strategies – Problem Focused coping, Emotion Focused coping, Proactive coping; Dealing with negative emotions; Healthy and unhealthy negative emotions	12	
VII	Mindfulness and wellbeing: Concepts of Mindlessness and Mindfulness, Essential attitudes of Mindfulness, Applying Mindfulness in daily Life – Mindful Eating, Mindful Listening	11	
VIII	Power of positive thinking; Hope, Learned optimism, Psychological hardiness, Resilience; Authentic Happiness – Pleasant life, Good Life, Meaningful Life	11	
Suggested Readings:			
Baron, R., & Misra, G. (2016). <i>Psychology</i> (5 th ed.). Pearson.			
Baumgardner, S. R., & Crothers, M. K. (2009). <i>Positive psychology</i> . Pearson Education.			
Ciccarelli, S. K., White, N.J., & Misra, G. (2017). <i>Psychology</i> (5th ed., South Asian Edition). Pearson Education.			
Hoskyn, M., Iarocci, G., & Young, A. R. (Eds.). (2017). <i>Executive functions in children's everyday lives: A handbook for professionals in applied psychology</i> . Oxford University Press.			
Logie, R.H., Camos, V., & Cowan, N. (Eds.) (2021). <i>Working Memory: State of the Science</i> . Oxford University Press.			
Singh, A.K. (2002). <i>Sangyanatmak Manovigyan</i> . Motilal Banarasidas			
Snyder, C. R., & Lopez, S. J. (Eds.). (2002). <i>Handbook of positive psychology</i> . Oxford University Press.			
Srivastava R (Ed.) (2003). <i>Sangyanatmak Manovigyan</i> . Motilal Banarasidas.			
Tracy, J. L., Robins, R. W., & Tangney, J. P. (Eds.). (2007). <i>The self-conscious emotions: Theory and research</i> . Guilford Press.			
Zinn, J. K. (2017). <i>Mindfulness for beginners</i> . Jaico Publishing House.			
Weblinks: http://heecontent.upsdc.gov.in/Home.aspx http://www.egyankosh.ac.in/ https://eddiener.com/ https://www.psytoolkit.org https://www.apa.org/			
This course can be opted as a minor elective: Open to all except those with a major in Psychology			
Suggested Continuous Evaluation Methods:			
Assignment/Seminar(10 Marks) Written Test (10 Marks) Attendance (5 Marks)			
Course pre requisites: 10+2 in any discipline			
Suggested equivalent online courses: Coursera, Swayam			

Neelam Singh
Professor & Head
Dept. of Psychology
R.G. P.G. College, Meerut

Minor

UG Ist yr Ist Sem Q10040 (Only for Arts & Commerce)

MINOR ELECTIVE FOR U.G. PROGRAMME

Programme/Class: U.G. B.Sc.	Year: First/ Second	Semester: 1 st
Subject: Home Science		
Course Code: Q10040	Course Title: Maternal and Child Nutrition	Theory
Course Objectives: 1. To define the nutritional needs during pregnancy and lactation. 2. To describe the principles, benefits of breastfeeding, and methods for encouraging and establishing breastfeeding among women of diverse cultural groups. 3. To describe infant feeding practices among diverse cultures and the cultural, social and economic factors that influence them. 4. To define the nutritional needs of children and the social, cultural and economic factors that affect their food choices and dietary intake.		
Course outcomes: <ul style="list-style-type: none">• Demonstrate an understanding of the physiological basis for nutrient requirements during pregnancy, lactation, infancy, childhood.• Assess the dietary needs appropriate to different stages.• Summarize the key causes of low birth weight, low breast milk output, and growth.• Compose appropriate nutritional advice regarding the feeding of mothers and children.• Critically appraise a range of interventions to address current issues in maternal and child nutrition.		
Credits: 4	Minor Elective (Compulsory)	
Max. Marks: 25 (Internal)+75 (External)	Min. Passing Marks: 33	
Total No. of Lectures- 60 (1 hour per lecture)		
Unit	Topics	No. of Lectures Total = 60
I	Maternal Nutrition- Importance of maternal nutrition. <ul style="list-style-type: none">• Current scenario of maternal and child nutrition in India, Vital Statistics.• Physiological and psychological changes during pregnancy.• Nutritional needs during pregnancy.• Factors affecting the outcome of pregnancy.• Pregnancy in special conditions- Adolescent pregnancy, Pregnancy and AIDS, Intrauterine Growth Retardation (IUGR), Genetic disorder, Congenital malformation, Foetal Alcoholic Syndrome, Gestational Diabetes Mellitus, Pregnancy Induced Hypertension,	12

	Complications of Pregnancy and its management.	
II	<p>Lactation- Physiology of lactation, Nutritional needs of lactating mothers, Composition of human milk, Effect of nutritional status of lactating mother on quantity and quality of breast milk.</p> <ul style="list-style-type: none"> • Breast feeding: Breast biology, benefits, factors affecting breastfeeding, Breast feeding support and counseling. 	12
III	<p>Infancy-</p> <ul style="list-style-type: none"> • Developmental tasks during infancy. • Physical, motor, social, Emotional & Language Development. • Immunization Schedule • Nutrition requirements during infancy • Food requirements and modification of foods for infants • Pre-term, Low birth weight (LBW) infants: implications for feeding and management. • Weaning and recent guidelines in infant feeding and complementary feeding. 	12
IV	<p>Childhood-</p> <ul style="list-style-type: none"> • Developmental tasks during childhood. • Physical, motor, social, Emotional & Language Development. • Growth monitoring using growth charts. • Nutritional requirements of pre-school and school-going children. 	14
V	Nutritional challenges and nutrition for children with special needs.	5
VI	Overview of maternal and child nutrition policies and programmes in India.	5
<p>Teaching Learning Process: Class discussions/ demonstrations, Power point presentations, Class activities/ assignments, Field visits., Internship, etc.</p>		
<p>Suggested Readings:</p> <ol style="list-style-type: none"> 1. Dr. Brinda Singh, Manav Sharir evam Kriya Vigyan Panchsheel Prakashan, Jaipur;2015 ,15th Ed. 2. Sumati R Mudami, "Fundamentals of food Nutrition and Diet Therapy" , New Age International Pvt. Ltd, New Delhi , 6th Ed. (2018) 3. Punita Sethi and Poonam Lakda , "Aahar Vigyan, Suraksha evam Poshan" ; Elite Publishing House, New Delhi ;2015 • 4. Dr. Anita Singh, Aahar Evam PoshanVigyan, Star Publications, Agra. 5. M. Swaminathan: Handbook of Food and Nutrition, The Bangalore Printing & Publishing Co. Ltd, 2018 		

6. Dr. Reena Khanuja: Aahar Evam Poshan Vigyan. 5. Dr. Sarita Kumawat: Aahar Evam Poshan Vigyan
7. Dr. Brinda Singh: Aahar and Poshan Vigyan.
8. Wadhwa A and Sharma S (2003). Nutrition in the Community-A Textbook. Elite Publishing House Pvt. Ltd. New Delhi.
9. Jyotsana Gupta, 2008, Child Nutrition. Rajat Publications, New Delhi.
10. Bamji MS, Krishnaswamy K and Brahmam GNV (Eds) (2009).
11. Textbook of Human Nutrition, 3rd edition. Oxford and IBH Publishing Co. Pvt. Ltd. New Delhi.
12. National Guidelines on Infant and Young Child Feeding (2006). Ministry of Women and Child Development, Government of India.

This course can be opted as an elective/ value added course by the students of following subjects: Open for all

Suggested Continuous Evaluation Methods:

Seminar/ Presentation on any topic of the above syllabus • Test with multiple choice questions/ short and long answer questions and Attendance

Course prerequisites: Open for all

Suggested equivalent online courses:

<https://epgp.inflibnet.ac.in/>

<https://swayam.gov.in/>

<https://heecontent.upsdc.gov.in/Home.aspx>

JM

F. Him

Bindu Sharma

Usha

Ramini

Amr

Sanika

Abha

Sur

Radhika

Manish

Prishu

Convenor (II) BOS
Home Science
R.G.P.G. College, Meerut

UG I yr. Minor
I sem Q10006 (only for Arts & Commerce)

Programme/Class: Certificate Course		Year: I	Semester: I/II Paper- Minor/ Elective
Subject: Offered by Botany			
Course Code: 04		Course Title: Disaster Management system in India	
Course outcomes:			
<ol style="list-style-type: none"> 1. The course focuses on basic concept of disaster(s) and disaster management, their significance and types. 2. The course will enable to develop the analytical skills to study relationship between vulnerability, disasters, disaster prevention and risk reduction. 3. The knowledge creates awakened group for integrated disaster management in the country. 4. It will enable young people in each city district or village to understand and explore avenues of reducing disaster risks and work towards preparedness and contribute towards minimizing losses and saving lives. 			
Credits: 5		Minor/Elective	
Max. Marks: 25+75		Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical (in hours per week): 4-1-0			
Unit	Topic	No. of L+T (75hrs)	
I	Overview and understanding of Disaster, definitions of Disaster, Hazard, Vulnerability, Resilience and Risks.	8	
II	Classification of disaster, natural hazards and Man-made disasters, Causes and social impacts, urban disasters, pandemics and climatic change.	10	
III	Panchayati Raj Institutions/Urban Local Bodies (PRIs/ULBs), states, Centre, and other stake-holders. CBRN disaster, NDMA, NDRF, NIDM, STATE DM.	12	
IV	Disaster Risk Management in India: Hazard and Vulnerability profile of India, Components of Disaster Relief: Water, Food, Sanitation, Shelter, Health, Fire, Waste Management Institutional arrangements	12	
V	Mitigation, Response and Preparedness, DM Act and Policy, Other related policies, plans, programmes and legislation	11	
VI	Disaster-induced Refugee problem – Problems of women and children during disasters; Principles of psycho-social care, issues and recovery Relationship between disasters, development and vulnerabilities	8	
VII	Equity issues in disasters; Issues of rehabilitation and resettlement of survivors; Stakeholders in disaster relief management	6	
VIII	Disaster risk reduction – Strategies, Preparedness plans, Action Plans and procedures, Early Warning systems; Factors contributing to vulnerability. Capacity building	8	
Suggested Reading:			
<ol style="list-style-type: none"> 1. Disaster Management R. Subramanian Vikas Publishing House - Business & Economics. 2. Gupta Anil K, Sreeja S. Nair. 2011 Environmental Knowledge for Disaster Risk Management, NIDM, New Delhi. 3. Indian Journal of Social Work 2002. Special Issue on Psychosocial Aspects of Disasters, Volume 63, Issue 2, April. 4. Kapur, Anu & others, 2005: Disasters in India Studies of grim reality, Rawat Publishers, Jaipur 5. Kapur Anu 2010: Vulnerable India: A Geographical Study of Disasters, IIA Sand Sage Publishers, New Delhi. 6. Govt. of India: Disaster Management Act 2005, Government of India, New Delhi. 7. Government of India, 2009. National Disaster Management Policy. 			

Internal Assessment	Marks
Class Interaction	5
Quiz	5
Seminar	7
Assignment (Charts/Flora/Rural Service/Technology Dissemination)	8
	25

Course prerequisites:

Qualification: To study this course, a student must have qualified 10+2/NSQF level 3 from Sector Skill Councils/Diploma holder from ITI in (Biology/Agriculture/Biotech/Forestry/Microbiology/Gardening/biomedical Science).

Facilities: Smart and Interactive Class

Other Requisites: Video collection, Books, CDs, Access to On-line resources, Display Charts

Suggested equivalent online courses:

onlinecourses.swayam2.ac.in/cec19_hs20/preview

Open Elective Courses for UG Program as an Optional
(To be taught in First/ Third /Odd Semester)

Course prerequisites:

This course can be opted as a minor elective by the students. Open to all.

Syllabus of the course

Programme Class:	Year	Semester
Subject: PHYSICS		
Course Code: (Q10007)	Course Title: Earth's Atmosphere and Climate Change	
Course Outcomes:		
After completing this course, a student will have:		
<ul style="list-style-type: none"> • Knowledge of basic structure and composition of the Earth • Knowledge of various atmospheric characterization parameters and their variation in the atmosphere. • Inculcate the understanding of structure, atmosphere and energy release phenomenon of the sun. • Knowledge of anthropogenic intervention in 'anthropocene', which has led to global climate change. • Knowledge about effects of global changes on human communities • Idea about initiatives taken at global and regional levels to combat them. 		
Credits: 04	Core: Minor Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-Tutorials (in hours per week): 04		
Unit	Topic	No. of Lectures
PART A: Sun and Earth Atmosphere		
I	Overview of Earth's Atmosphere: Origin of the Atmosphere, Composition of the Atmosphere; major components (nitrogen, oxygen and argon), minor components, water vapor, aerosols and ozone, Homosphere and Heterosphere, Vertical structure of the atmosphere; air density, air pressure, air temperature, temperature scales, Temperature profile of earth's atmosphere, Vertical distribution of air pressure, Horizontal distribution of air pressure, Equation of state, Ideal gas law, Hydrostatic balance, Layers of the atmosphere; troposphere, atmospheric boundary layer, stratosphere, mesosphere, thermosphere.	13

II	The Sun and our Solar System: The internal structure of the sun, Characteristics of the sun, different layers of the sun; the core, the radiative zone, the convection zone. Solar atmosphere, the photosphere, the chromosphere, the corona, Differential rotation of the sun, Formation of sunspots, solar cycle or sunspot cycle, Magnetic fields on the sun, Energetic events on the sun; solar flares, coronal mass ejections, Formation of the solar system, Inner solar system; Mercury, Venus, Earth, Mars, asteroids, Outer solar system; Jupiter, Saturn, Uranus, neptune, comets, Kuiper belts, Dwarf planets.	17
PART B: Climate Change and Environment Policies		
III	Global warming and climate change: Natural greenhouse effect, Greenhouse effect due to anthropogenic sources, Concentration of various greenhouse gases in earth's environment; concentration of carbon-dioxide, concentration of methane, concentration of nitrous oxide, concentration of fluorocarbons, Climate forcing, Trends of global warming and climate change; change in rain patterns, melting of glaciers and rising sea levels, damage to coral reefs, stronger storms, shifting of wild life species, change in plant's life cycle, droughts, Impact on economy and spread of acute human disease.	18
IV	Ozone layer depletion, environmental policy & agreements: Ozone layer or ozone shield; importance of ozone layer; ozone layer depletion and causes; Chapman cycle; process of spring time ozone depletion over Antarctica; ozone depleting substances (ODS); effects of ozone depletion; mitigation measures and international protocols. Environmental policy debate; International agreements; Montreal protocol 1987; Kyoto protocol 1997; Convention on Climate Change; carbon credit and carbon trading; clean development mechanism.	12

Suggestive readings:

1. A Chandrasekar, 2010, Basics of Atmospheric Science, PHI Publication.
2. National Research Council, 2014, Solar and Space Physics: A science for a technological society: An overview, Washington DC: The National Academics Press. <https://doi.org/10.17226/18974>.
3. Hardy, J.T. 2003. Climate Change: Causes, Effects and Solutions. John Wiley & Sons.
4. Harvey, D. 2000. Climate and Global Climate Change. Prentice Hall.
5. Gillespie, A. 2006. Climate Change, Ozone Depletion and Air Pollution: Legal Commentaries with Policy and Science Considerations. Martinus Nijhoff Publishers.
6. Maslin, M. 2014. Climate Change: A Very Short Introduction. Oxford Publications.
7. Mathez, E.A. 2009. Climate Change: The Science of Global Warming and our Energy Future. Columbia University Press.

Online Resources:

1. IPCC, 2014: Climate Change 2014: Synthesis Report. Contribution of Working Groups I, II, III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. https://www.ipcc.ch/site/assets/uploads/2018/02/SYR_AR5_FINAL_full.pdf
2. Gautam Yogendra K., Sharma Kavita, Tyagi Shrestha, Ambedkar Anit K., Chaudhary Manika and Beer Pal Singh, Nanostructured metal oxide semiconductor-based sensors for greenhouse gas detection: progress and challenges, Royal Society open science, 201324201324, <http://doi.org/10.1098/rsos.201324>.
3. <https://www.epa.gov/ghgemissions/overview-greenhouse-gases>.
4. Introduction to atmospheric science, <https://nptel.ac.in/courses/119/106/119106008/>

Minor

UG I yr. I sem. Q10008 (only for Arts & Commerce)

Programme/Class: Certificate		Year: First	Semester: First
Subject: ZOOLOGY			
Course Code:		Course Title: Environment and Public Health challenges	
Course outcomes: The student at the completion of the course will be able to: <ul style="list-style-type: none"> • contribute to capacity building to limit greenhouse gases and carbon footprint. • understand importance of biodiversity and wildlife sustainability. • take up green jobs contributing to preserve the environment, eco-sensitization programmes, emerging green sectors like renewable energy etc. • append lifestyle correction to prevent diseases- like daily rhythm correction, yoga and meditation • work in programmes addressing challenges of health and sanitation, epidemiology of communicable & non-Communicable diseases • assist in strategizing for control of diseases of important public health problems. 			
Credits: 4		Core: Elective	
Max. Marks: 25+75		Min. Passing Marks: as per rules	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P:4-0-0			
Unit	Topics	Total No. of Lectures (60)	
I	Biological inputs to a low-carbon economy <ul style="list-style-type: none"> • Introducing low-carbon economies for ecosystem resilience • Biological impacts of global warming, rising sea levels, extremities of storms and cyclones • Current trends of Climate change and it's mitigation in India • CPCB central pollution control board 	8	
II	Sustainable wildlife protection <ul style="list-style-type: none"> • Government legislations and bodies • CPCSEA, MoEFW, AWB, BNHS, WWF • rationalizing protected area boundaries: man animal conflict in modern India 	4	
III	India: A bioreserve hub <ul style="list-style-type: none"> • Project tiger • wildlife sanctuaries and national parks special reference to Hastinapur sanctuary • endangered wild species in India 	8	
IV	Methods to promote environmental skills <ul style="list-style-type: none"> • Recycling / New skilled waste treatment • use of modern biotechnology for Energy efficiency, green transport • knowledge of renewable energy, Solar energy, wind power energy, biofuel usage • sustainable construction techniques with Energy Performance, legislation, resource management. 	8	
V	Food Nutrition and Health <ul style="list-style-type: none"> • balanced diet , Mediterranean diet • time of eating; intermittent fasting • calorie and food timings • health consequences of empty calorie diets in young adults 	8	
VI	Lifestyle and Indian methods to improve health <ul style="list-style-type: none"> • Circadian rhythms for better life • Ayurveda Clock • Exercise 	8	

Hani

Amal

B. S. Jyoti

	<ul style="list-style-type: none"> • Yoga • Meditation 	
VII	Sleep disorders in 24X7 Society <ul style="list-style-type: none"> • ASPS; DSPS; Sleep Apnea • Role of morning sunlight • Shift work and occupational health challenges • sleep and mental health 	8
VIII	Non-communicable diseases as lifestyle disorders <ul style="list-style-type: none"> • Cancer, Hypertension; PCOS • Diabetes; obesity 	8

Suggested Readings:

1. Sanjay Upadhyay et al; Environmental Laws in India (Vol -I, II, III), Butterworth: New Delhi:2004.
2. Raj Punjwari, Wildlife Conservation in India, Natraj, Dehradun:2000.
3. M. Zafar Mahfooz Norman; Natural resources, Law and Policy, Uppal: New Delhi-2004
4. Health Education and Community Pharmacy for First Year Diploma in Pharmacy 3rd ed. V.N. Raje, CBS
5. Textbook of Community Health Nursing I, S.D. Manivannan CBS Nursing

Course Books published in Hindi may be prescribed by the Universities and Colleges

Course prerequisites: To study this course, a student must have had the subject biology in class/12th

Suggested Continuous Evaluation Methods:

Total Marks: 25

House Examination/Test: 10 Marks

Written Assignment/Presentation/Project / Term Papers/Seminar: 10 Marks

Class performance/Participation: 5 Marks

Further Suggestions: None

Jain

Singh

S. Singh

Minor
UGIyr., I Sem. Q10038 (Only for Commerce Science)



Chaudhary Charan Singh University, Meerut
National Education Policy-2020
Sanskrit Syllabus for B.A I Year
स्नातक प्रथम वर्ष हेतु संस्कृत विषय का पाठ्यक्रम
Minor Course – लघुपाठ्यक्रम

[संबद्ध महाविद्यालयों के संस्थागत छात्रों के लिए वर्ष-2021-22 से प्रभावी]

Programme/Class: Bachelor B.A. स्नातक	Year: First वर्ष - प्रथम	Semester: First सेमेस्टर- प्रथम
Subject:- SANSKRIT		
Course Code:	Course Title: संस्कृत साहित्य में राष्ट्र चिन्तन	
Course outcomes:		
<ul style="list-style-type: none">➤ विद्यार्थी संस्कृत साहित्य का सामान्य परिचय प्राप्त कर सकेंगे।➤ वैज्ञानिक भाषा के रूप में संस्कृत भाषा के महत्व एवं उसकी वर्तमान प्रासंगिकता का बोध प्राप्त करेंगे।➤ नैतिक मूल्यों से परिचित होकर उनके अनुपालन हेतु प्रेरित होंगे।➤ भारत की विशेषताओं के विषय में जानेंगे।➤ विद्यार्थी लोकाचार का व्यावहारिक ज्ञान प्राप्त करेंगे।➤ संस्कृत साहित्य में वर्णित राष्ट्रचिन्तन के विचारों से अवगत होंगे।		
Credits: 4		Minor Course
Max. Marks: 25+75		Min. Passing Marks:
Total No. of Lectures - 60		
Unit	Topics	No. of Lectures 60
I	अथर्ववेद पृथ्वी सूक्त (12/1) प्रारम्भिक 10 मन्त्र श्रीमद्भगवद्गीता (अध्याय 2) प्रारम्भिक 15 श्लोक	20
II	हितोपदेश - सुहृद्भेद (अष्टम कथा श्लोक सं 126 से 153) मदोन्मत्तसिंहशककथा	15
III	नीतिशतकम्- सुजनपद्धति	8
IV	स्वराज्यविजयम् – प्रथम सर्ग	12
V	अनेकार्थक एवं विलोम शब्द	5

Suggested Readings:

- ❖ अथर्ववेद भाषा भाष्य – दयानन्द संस्थान, दिल्ली
- ❖ अथर्ववेद भाषा भाष्य – स्वामी जगदीश्वरानन्द, दिल्ली
- ❖ श्रीमद्भगवद्गीता – गीता प्रेस, गोरखपुर
- ❖ हितोपदेश – नारायणपण्डित चौखम्बा संस्कृत प्रतिष्ठान, दिल्ली
- ❖ नीतिशतकम् – भर्तृहरि, ज्ञान प्रकाशन, मेरठ
- ❖ नीतिशतकम् – भर्तृहरि, साहित्य भण्डार, सुभाष बाजार, मेरठ
- ❖ संस्कृत साहित्य का इतिहास – डॉ बलदेव उपाध्याय, चौखम्बा प्रकाशन, वाराणसी
- ❖ स्वराज्य विजयम् – ईश्वर सिंह, ज्ञान प्रकाशन, वाराणसी

This course can be opted as an elective by the students of following subjects: **Open for all**
सभी के लिए उपलब्ध

Suggested Continuous Evaluation Methods:

प्रस्तावित सतत मूल्यांकन-

(क) पाठ्यक्रम में निर्धारित ग्रंथों पर आधारित अधिन्यास (असाइनमेंट)/ मौखिकी 10 अंक

(ख) लिखित परीक्षा (वस्तुनिष्ठ/लघुउत्तरीय) 15 अंक

Course prerequisites: सभी के लिए उपलब्ध

Suggested equivalent online courses:

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Further Suggestions:

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Minor
UGI, Isem. Q10037 (Only for Arts & Science)

Programme: B.Com.		Year: First	Semester: First
Subject: Commerce			
Course Code: C010103T		Course Title: Business Communication	
Credits: 6		Core Compulsory / Elective: Elective	
Max. Marks: 25+75		Min. Passing Marks: 10+25	
Total No. of Lectures: 90			
Unit	Topics	No. of Lectures	
I	Introduction : Process and Importance of Communication, Types of Communication (verbal & Non Verbal), Different forms of Communication. Barriers to Communication: Linguistic Barriers, Psychological Barriers, Interpersonal Barriers, Cultural Barriers, Physical Barriers, Organizational Barriers. Role, effects and advantages of technology in Business Communication like email, text messaging, instant messaging and modern techniques like video conferencing, social networking. Strategic importance of e-communication.	22	
II	NON-Verbal Aspects of Communicating: Body Language, Kinesics, Proxemics, Paralanguage. Effective Listening: Principles of Effective listening, Factors affecting listening, exercises, Oral, Written and video sessions, Interviewing skills: Appearing in interviews, Writing resume and letter of application. Modern forms of communicating: E-Mail, Video Conferencing etc.	21	
III	Business language and presentation : Importance of Business language, Vocabulary Words often confused Words often misspelt., Oral Presentation Importance, Characteristics, Presentation Plan, Power point presentation, Visual aids. Writing skills: Planning business messages, Rewriting and editing, The first draft and Reconstructing the final draft. Office Correspondence: Official Letter, Semi Official Letter And Memorandum.	31	
IV	Report Writing : Identify the types of reports, define the basic format of a report, identify the steps of report writing, write a report meeting the format requirements, determine the process of writing a report, importance of including visuals such as tables, diagrams and charts in writing report, apply citation rules (APA style documentation) in reports.	16	
<p>Suggested Readings:</p> <ol style="list-style-type: none"> 1. Lesikar, R.V. & Flatley, M.E.; Basic Business Communication Skills for Empowering the Internet Generation, Tata McGraw Hill Publishing Company Ltd. New Delhi. 2. Bovee, and Thill, Business Communication Today. Pearson Education 3. Shirley, Taylor, Communication for Business. Pearson Education 4. Locker and Kaczmarek, Business Communication: Building Critical Skills, TMH 5. Misra, A.K., Business Communication (Hindi), Sahitya Bhawan Publications Agra <p>Note- Latest edition of the text books should be used.</p> <p>This course can be opted as an elective by the students of following subjects: Open for all</p>			

Manoj

[Signature]