K. C. E. Society's
Moolji Jaitha College
An 'Autonomous College' Affiliated to
K.B.C. North Maharashtra University, Jalgaon.
NAAC Reaccredited Grade - A (CGPA : 3.15 - 3rd Cycle)
UGC honoured "College of Excellence" (2014-2019)
DST(FIST) Assisted College

KNOWLEDGE IS POWER
ESTD. 1945

के. सी. ई. सोसायटीचे
मूळजी जेठा महाविद्यालय
क.ब.चौ. उत्तर महाराष्ट्र विद्यापीठ, जळगाव संलग्नित
'स्वायत्त महाविद्यालय'
नॅकद्वारा पुनर्मानांकित श्रेणी – 'ए' (सी.जी.पी.ए. : ३.१५ – तिसरी फेरी)
विद्यापीठ अनुदान आयोगाद्वारा घोषित 'कॉलेज ऑफ एक्सलन्स' (२०१४-२०१९)
डी.एस.टी. (फीस्ट) अंतर्गत अर्थसहाय्य प्राप्त

Date :- 01/08/2023

NOTIFICATION

Sub :- CBCS Syllabi of B.A. in Geography (Sem. I & II)

Ref. :- Decision of the Academic Council at its meeting held on 26/07/2023.

The Syllabi of B.A. in Geography (First and Second Semesters) as per **NATIONAL EDUCATION POLICY - 2020** and approved by the Academic Council as referred above are hereby notified for implementation with effect from the academic year 2023-24.

Copy of the Syllabi Shall be downloaded from the College Website (www.kcesmjcollege.in)

Sd/-
Chairman,
Board of Studies

To :

1) The Head of the Dept., M. J. College, Jalgaon.
2) The office of the COE, M. J. College, Jalgaon.
3) The office of the Registrar, M. J. College, Jalgaon.

Near Samarth Colony, Jalgaon - 425 002. (Maharashtra, India) | Ph. : +91 257 - 2237363, 2234281 | e-mail : mjcollege@kces.in | Website : mjcollege.kces.in
समर्थ कॉलनी जवळ, जळगांव – ४२५ ००२. (महाराष्ट्र, भारत) । दूरध्वनी क्र. : +९१ २५७-२२३७३६३, २२३४२८१ । ई-मेलः mjcollege@kces.in । वेबसाईटः mjcollege.kces.in

Khandesh College Education Society's

Moolji Jaitha College, Jalgaon

An "Autonomous College"

Affiliated to

Kavayitri Bahinabai Chaudhari

North Maharashtra University, Jalgaon-425001

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STRUCTURE AND SYLLABUS

B.A. Honours / Honours with Research (F.Y.B.A. Geography)

Under Choice Based Credit System (CBCS)

and

as per NEP-2020 Guidelines

[w.e.f. Academic Year: 2023-24]

Preface

Geography, as a subject, is an ancient discipline that explores the interactions between humans and their environment. Over the years, geography has evolved and incorporated various technological advancements, leading to significant developments in the field. One such noteworthy transformation has been the integration of Remote Sensing (RS), Geographic Information Systems (GIS), and Global Positioning System (GPS) technologies. These cutting-edge tools have revolutionized how geographers collect, analyze, and interpret spatial data, making geography an even more dynamic and relevant subject in contemporary times.

The Department of Geography at M. J. College (Autonomous), Jalgaon, is at the forefront of embracing these recent trends in geography. Through the courses offered, including B.A. Geography, B.Sc. Geography, M.A/M.Sc. Geography, and Ph.D., the department equips students with comprehensive knowledge and practical skills to navigate the complexities of modern geography. Additionally, the Certificate Course in Geoinformatics serves as a valuable platform for students to delve deeper into the applications of RS, GIS, and GPS technologies.

One of the standout characteristics of the Department is its team of expert and qualified faculties. These educators not only possess extensive academic knowledge but also have hands-on experience in utilizing geospatial technologies effectively. Their guidance empowers students to explore and understand the intricacies of geographical phenomena using the latest tools and methodologies.

The Department boasts state-of-the-art facilities, including smart laboratories for practicals, a central library supplemented with a departmental library, and a well-equipped GIS computer lab with internet access. The availability of these resources ensures that students have ample opportunities to engage in hands-on learning and conduct research, contributing to a comprehensive understanding of geographic concepts. Moreover, the Department has been recognized as a research center for Ph.D. studies, encouraging scholarly pursuits in the realm of geography. This designation highlights the institution's commitment to pushing the boundaries of geographical knowledge and fostering innovative research in the field. The integration of technology in geography education is further augmented by the presence of smart classrooms and advanced geographical instruments. These resources enable interactive learning and support students in developing a deep appreciation for the spatial dimensions of various phenomena.

In addition to academic excellence, the Department is devoted to providing specialized coaching for national-level exams such as NET/SET and competitive examinations. This emphasis on exam preparation equips students with the necessary skills to excel in their careers and become leading professionals in the field of geography. The collaboration with the Indian Institute of Remote Sensing (IIRS) as an Outreach Training Program center is a testament to the Department's commitment to keeping abreast of the latest advancements in geospatial technology. This association allows students and faculties to participate in training programs conducted by experts in the field, enhancing their knowledge and skills in RS, GIS, and GPS applications. Furthermore, the Department of Geography at M. J. College (Autonomous), Jalgaon, proudly boasts access to the best telescopes for sky watching. This unique feature provides students with an opportunity to explore celestial phenomena and their connections with the Earth, bridging the gap between the terrestrial and astronomical realms.

Finally, the Department's focus on career opportunities in geography ensures that graduates are well-prepared to enter various professional fields. The interdisciplinary nature of

geography opens doors to careers in environmental management, urban planning, disaster management, cartography, geospatial analysis, and more. The versatility of geography as a subject makes it a rewarding and promising choice for students seeking diverse and impactful career paths.

The Department of Geography at M. J. College (Autonomous), Jalgaon, stands as a vibrant and progressive hub for geography education. The integration of RS, GIS, and GPS technologies, coupled with expert faculty, modern facilities, and extensive research opportunities, equips students to become adept geographers, ready to address the pressing challenges of our ever-changing world.

Programme Outcomes (PO) for B.A. Honours/ Honours with Research

Upon successful completion of this Programme, student will be able to:

PO No.	PO
1	Graduates should have a comprehensive knowledge and understanding of the fundamental principles, theories, and concepts in their chosen field of study.
2	Graduates should possess the necessary technical skills and competencies related to their discipline, including laboratory techniques and data analysis.
3	Graduates should be able to identify, analyze, and solve complex problems using logical and critical thinking skills. They should be able to apply scientific methods and principles to investigate and find solutions.
4	Graduates should be proficient in effectively communicating scientific information, both orally and in writing.
5	Graduates should have a basic foundation in research methods and be capable of designing and conducting scientific investigations.
6	Graduates should be able to work effectively as part of a team, demonstrating the ability to collaborate with others, respect diverse perspectives, and contribute to group projects.
7	Graduates should recognize the importance of ongoing learning and professional development. They should be equipped with the skills and motivation to engage in continuous learning, adapt to new technologies and advancements in their field, and stay updated with current research.

Programme Specific Outcome (PSO) for B.A. Geography Honours / Honours with Research:

After completion of this course, students are expected to:

PSO No.	PSO
1	Understand the basic ideas and concept of physical and human aspect of Geography
2	Developing, analyzing and mapmaking based on the on the themes and issues of geography.
3	Principle and applications of geospatial techniques like Remote sensing GIS and GPS
4	Use traditional and advance geographical techniques like geospatial for surveying
5	Explain the causes and effects of change over space and time on physical and human environments
6	Improve tradition geographical knowledge along with advance contemporary skills like remote sensing and GIS.

Credit distribution structure for Three/ Four year Honors/ Honors with Research Degree Programme with Multiple Entry and Exit

Level	Sem	Major (Core) Subjects		Minor Subjects (MIN)	GE/ OE	VSC, SEC (VESC)	AEC, VEC, IKS	CC, FP, CEP, OJT/Int, RP	Cumulative Credits/Sem	Degree/ Cumulative Cr.
		Mandatory (DSC)	Elective (DSE)							
4.5	I	DSC (4T) DSC(2T)	—	Minor (4T)	GE-(2T)	SEC-(2T) SEC-(1P)	AEC-1 (2T) (ENG) VEC-1 (2T) (ES) IKS (1T)	CC-1 (2T)	22	UG Certificate 44
	II	DSC(4T) DSC(2T)	...	MIN(4T)	GE-(2T)	SEC-(2T) SEC-(1P)	AEC-2 (2T) (ENG) VEC-2 (2T) (CI) IKS (1T)	CC-2 (2T)	22	
	Cum. Cr	12	...	8	4	6	4+4+2	4	44	
Exit option: Award of UG Certificate in Major with 44 credits and an additional 4 credits core NSQF course/ Internship OR Continue with Major and Minor.										
5.0	III	DSC(4T) DSC(4T)	...	MIN (4T)	GE-(4T)		AEC-(2T) (MIL)	CC- (2T) FP (2T)	22	UG Diploma 44
	IV	DSC(4T) DSC(4T)	...	MIN(4T)	GE-(4T)		AEC-(2T) (MIL)	CC- (2T) FP (2T)	22	
	Cum. Cr	16	...	08	08	--	2+2=4	4+4=8	44	
Exit option: Award of UG Diploma in Major and Minor with 88 credits and an additional 4 credits core NSQF course/ Internship OR Continue with Major and Minor.										
5.5	V	DSC(2T) DSC(4T) DSC(4T)	DSE-A(2T) DSE-B(2T)	MIN-(2T)	...	VSC- (4T)	...	OJT/Int(2)	22	UG Degree 44
	VI	DSC (2T) DSC (4T) DSC (4T)	DSE-A(2T) DSE-B(2T)	MIN-(2T)	—	VSC-(4T)	...	OJT/Int(2)	22	
	Cum. Cr.	20	08	4	--	8	--	2+2=4	44	
Exit option: Award of UG Degree in Major with 132 credits OR Continue with Major and Minor										
6.0	VII	DSC(4T) DSC(4T) DSC(4T) DSC (2T)	DSE A(2T) DSE B(2T)	RM (2T)	—	...	...	OJT/Int (2)	22	UG Honors Degree 44
	VIII	DSC (4T) DSC(4T) DSC(4T) DSC (2T)	DSE A(2T) DSE B(2T)	RM (2T)	—	...	...	OJT/Int (2)	22	
	Cum. Cr.	28	08	4				4	44	
Four Year UG Honors Degree in Major and Minor with 176 credits										
6.0	VII	DSC-(4T) DSC-(4T) DSC- (2P)	DSE A(2T) DSE B(2T)	RM (2T)	...	...	...	RP (6)	22	UG Honors with Research Degree 44
	VIII	DSC-(4T) DSC-(4T) DSC- (2T)	DSE A(2T) DSE B(2T)	RM (2T)	...	...	...	RP (6)	22	
	Cum. Cr.	20	08	4	--	--	--	12	44	
Four Year UG Honours with Research Degree in Major and Minor with 176 credits										

Sem- Semester, **DSC**- Department Specific Course, **DSE**- Department Specific Elective, **T**- Theory, **P**- Practical, CC- Cocurricular **RM**- Research Methodology, **OJT**- On Job Training, **FP**- Field Project, **Int**- Internship, **RP**- Research Project,

Multiple Entry and Multiple Exit options:

The multiple entry and exit options with the award of UG certificate/ UG diploma/ or three-year degree depending upon the number of credits secured;

Levels	Qualification Title	Credit Requirements		Semester	Year
		Minimum	Maximum		
4.5	UG Certificate	40	44	2	1
5.0	UG Diploma	80	88	4	2
5.5	Three Year Bachelor's Degree	120	132	6	3
6.0	Bachelor's Degree- Honours **Or** Bachelor's Degree- Honours with Research	160	176	8	4

F. Y. B.A. Structure and Syllabus

Semester	Course Module	Credit	Hours/ week	TH/ PR	Code	Title
I	DSC	4	4	TH	GEOG-DSC-111	Fundamentals of Physical Geography
	DSC	2	4	PR	GEOG-DSC-112	Maps and Scale
	Minor	4	4	TH	GEOG-MIN-111	Fundamentals of Physical Geography
	SEC	2	2	TH	GEOG-SEC-111	Fundamentals of GPS
	SEC	1	2	PR	GEOG-SEC-112	Practicals on GPS
II	DSC	4	4	TH	GEOG-DSC-121	Fundamentals of Human Geography
	DSC	2	4	PR	GEOG-DSC-122	Interpretation of SOI topographical maps
	Minor	4	4	TH	GEOG-MIN-121	Fundamentals of Human Geography
	SEC	2	2	TH	GEOG-SEC-121	Surveying
	SEC	1	2	PR	GEOG-SEC-122	Plane-Table Survey

DSC : Department-Specific Core course
DSE : Department-Specific elective
GE/OE : Generic/ Open elective
SEC : Skill Enhancement Course
MIN : Minor course
AEC : Ability Enhancement Course
VEC : Value Education Courses

ENG : English
ES : Environmental studies
CI : Constitution of India
IKS : Indian Knowledge System
CC : Co-curricular course
TH : Theory
PR : Practical

SEMESTER - I

F.Y.B.A.
SEMESTER - I
GEOG-DSC-111: Fundamentals of Physical Geography

Total Hours: 60 **Credits: 4**

Learning objectives	• Understand physical geography concepts, branches, and importance. • Comprehend the formation of Earth's surface, including continental drift, plate tectonics, earthquakes, and volcanoes. • Gain knowledge of rocks, weathering, erosion, and deposition processes. • Acquire an understanding of the Earth's atmosphere, its composition, structure, and weather and climate concepts.	
Course outcomes	After successful completion of this course, students are expected to: • Demonstrate understanding and explain the significance of physical geography. • Analyze geological processes and their impact on Earth's surface. • Describe rocks and evaluate the processes shaping the Earth's surface. • Analyze the Earth's atmosphere and understand weather and climate concepts.	
Unit	**Topic Particular**	**Hours**
Unit I	**Introduction to Physical Geography** • Definitions and scope of physical geography • Branches and subfields of physical geography • Importance and relevance of physical geography • Earth as a system • Interior of earth structure	15
Unit II	**Formation of Earth surface** • Introduction to Major forces • Theory: Wegener's Continental Drift Theory, Plate Tectonics Theory • Earthquake and Volcano: Definitions, Causes, Effects and Types Rocks: Definition, Types and Characteristics • Weathering, Mass movement and Erosion: Definition, Factors &Types • Erosional and Depositional Landforms: River and Wind	15
Unit III	**Earth's Atmosphere** • Definitions of Atmosphere • Concept of Weather & Climate • Composition and Structure of Atmosphere	15
Unit IV	**Atmospheric Phenomena** • Concept of Insolation, Solar Constant and Albedo of the Earth • Distribution of Isolation- o Factors Affecting on distribution of Insolation • Distribution of Temperature- • Atmospheric Moisture Humidity • Clouds- classification and Precipitation processes	15

References	• B.S. Negi (1993) Physical Geography. S.J. Publication, Meerut • Christopherson, R. W., Birkeland, P. W., &Birkeland, P. W. (2015). Geosystems: An Introduction to Physical Geography (9th ed.). Pearson. • D.S. Lal (1998) Climatology. Chaitnya publishing house, Allahabad • K. Siddhartha (2001) Atmosphere, Weather and Climate. Kisalaya publication, New Delhi • Marshak, S. (2016). Earth: Portrait of a Planet (5th ed.). W. W. Norton & Company. • McKnight, T. L., Hess, D., & Tasa, D. (2017). Physical Geography: A Landscape Appreciation (12th ed.). Pearson. • R.N. Tikka (2002) Physical Geography. Kedarnath Ramnath & co, Meerut • Strahler, A. H., & Strahler, A. N. (2016). Introducing Physical Geography (6th ed.). Wiley. • Willian D. Thornbury (1997) Principle of Geomorphology. New Age International (PvtLtd.) New Delhi.	

F.Y.B.A.
SEMESTER - I
GEOG-DSC 112: Maps and Scale

Total Hours: 60 **Credits: 2**

Learning objectives	• To acquaint the students with cartographic Techniques. • To study importance of scale in map making. • To study various map making tools and techniques. • To understand Geographical data for map making	
Course outcomes	After successful completion of this course, students are expected to: • Students will have ability cartographic Techniques. • Understand importance implementation in map. • Able to handle map making tools and techniques • Able to prepare map	
Unit	**Topic Particular**	**Hours**
Unit I	**Map:** • Maps and Globe: Meaning, Definition • Elements of Map • Classification and Types of Map • Importance and use of maps	15

Unit II	**Scale**
	• Definition of Scale
	• Methods of Representing Scales
	  ○ Verbal scale
	  ○ Numerical scale
	  ○ Graphical scale
	  ○ Conversion of scale (British and Metric system)
		15

Unit III	**Construction of Scale**
	• Construction of Scales
	  ○ Simple Graphical Scale
	  ○ Comparative Scale
	  ○ Time and Distance Scale (Only Metric System)
		15

Unit IV	**Maps Making** • Distributional Maps • Dot Map • Choropleth Map • Isopleths Map	15
Study Resources	• Pal S. K. (1998) Statistics for Geoscientists, Tata McGraw Hill, New Delhi. • Negi B. S. (1993) Statistical Geography, Kedarnath Ramnath Co., Meerut • Dent B. D., 1999: Cartography: Thematic Map Design, (Vol. 1), McGraw Hill. • Gupta K. K and Tyagi V. C., 1992: Working with Maps, Survey of India, DST New Delhi. • Mishra R. P. and Ramesh A., 1989: Fundamentals of Cartography, Concept Publishing. • Sharma J. P., 2010: Prayogic Bhugol, Rastogi Publishers.	

F.Y.B.A.
SEMESTER - I
GEOG-MIN-111: Fundamentals of Physical Geography

Total Hours: 60 **Credits: 4**

Learning objectives	• Understand physical geography concepts, branches, and importance. • Comprehend the formation of Earth's surface, including continental drift, plate tectonics, earthquakes, and volcanoes. • Gain knowledge of rocks, weathering, erosion, and deposition processes. • Acquire an understanding of the Earth's atmosphere, its composition, structure, and weather and climate concepts.	
Course outcomes	After successful completion of this course, students are expected to: • Demonstrate understanding and explain the significance of physical geography. • Analyze geological processes and their impact on Earth's surface. • Describe rocks and evaluate the processes shaping the Earth's surface. • Analyze the Earth's atmosphere and understand weather and climate concepts.	
Unit	**Topic Particular**	**Hours**
Unit I	**Introduction to Physical Geography** • Definitions and scope of physical geography • Branches and subfields of physical geography • Importance and relevance of physical geography • Earth as a system • Interior of earth structure	15
Unit II	**Formation of Earth surface** • Introduction to Major forces • Theory: Wegener's Continental Drift Theory, Plate Tectonics Theory • Earthquake and Volcano: Definitions, Causes, Effects and Types Rocks: Definition, Types and Characteristics • Weathering, Mass movement and Erosion: Definition, Factors &Types • Erosional and Depositional Landforms: River and Wind	15
Unit III	**Earth's Atmosphere** • Definitions of Atmosphere • Concept of Weather & Climate • Composition and Structure of Atmosphere	15
Unit IV	**Atmospheric Phenomena** • Concept of Insolation, Solar Constant and Albedo of the Earth • Distribution of Isolation- o Factors Affecting on distribution of Insolation • Distribution of Temperature- • Atmospheric Moisture Humidity • Clouds- classification and Precipitation processes	15

References	• B.S. Negi (1993) Physical Geography. S.J. Publication, Meerut • Christopherson, R. W., Birkeland, P. W., &Birkeland, P. W. (2015). Geosystems: An Introduction to Physical Geography (9th ed.). Pearson. • D.S. Lal (1998) Climatology. Chaitnya publishing house, Allahabad • K. Siddhartha (2001) Atmosphere, Weather and Climate. Kisalaya publication, New Delhi • Marshak, S. (2016). Earth: Portrait of a Planet (5th ed.). W. W. Norton & Company. • McKnight, T. L., Hess, D., & Tasa, D. (2017). Physical Geography: A Landscape Appreciation (12th ed.). Pearson. • R.N. Tikka (2002) Physical Geography. Kedarnath Ramnath & co, Meerut • Strahler, A. H., & Strahler, A. N. (2016). Introducing Physical Geography (6th ed.). Wiley. • Willian D. Thornbury (1997) Principle of Geomorphology. New Age International (PvtLtd.) New Delhi.	

F.Y.B.A.
SEMESTER - I
GEOG-SEC 111: Fundamentals of GPS

Total Hours:30 **Credits: 2**

Learning objectives	• To understand satellite system • To understand functional segments of GPS • To understand the navigation • To understand accuracy and Applicability of GPS	
Course outcomes	After successful completion of this course, students are expected to: • Will aware with satellite system • understand functional segments of GPS • know the navigation of GPS • Enhance to knowledge applications of GPS	
Unit	**Topic Particular**	**Hours**
Unit I	**Introduction to GPS:** • Fundamental concepts of GPS • History of GPS development • Fundamental concept	8
Unit II	**System and Function** • Satellite system and GPS satellite • Functional segments of GPS • GPS satellite Segmentation	7
Unit III	**GPS working system and problems** • GPS positioning types • GPS receivers and codes, antenna • Factors affecting of GPS	8
Unit IV	**Navigation signals** • Accuracy and error sources • Satellite based navigational systems: o GLONASS, GALILEO and IRNSS • Applications of GPS	7
Study Resources	• Understanding GPS: Principles and Applications Elliott Kaplan, Christopher Hegarty • GPS Mapping Rich Owings • GPS Made Easy: Using Global positioning Systems in the Outdoors Lawrence Letham • Outdoor Navigation with GPS Stephen W. Hinch • Satellite Geodesy: Gunter Seebar, 8. GPS satellite surveying: Alfred leick • Longley, P. A., Goodchild, M. F., Maguire, D. J., Rhind, D. W. (2002). Geographical Information Systems and Science. Chichester: John Wiley & Sons.. Lo, C. P., Yeung, A. W. (2002). Concepts Techniques of Geographical Information Systems. New Delhi: Prentice-Hall of India. • Chang, K. T. (2008). Introduction to Geographic Information	

	Systems. Avenue of the Americas, New York: McGraw-Hill. • Korte, G. B. (2001). The GIS Book, Bangalore: Onward Press. 5. Demers, M. N. (2000). Fundamentals of Geographic Information Systems. New Delhi: John Wiley and Sons. • Burrough, P. A. & McDonnell, R.A. (2000). Principles of Geographical Information Systems. New York: Oxford University Press. • Heywood, I., Cornelisus, S., Carver, S. (2011). An Introduction to Geographical Information Systems, New Delhi: Pearson Education. • Ahmed, E. L. Rabbany (2002). Introduction to Global Positioning Systems. Boston: Artech House	

F.Y.B.A.
SEMESTER - I
GEOG-SEC 112: Practicals on GPS

Total Hours: 30 **Credits: 1**

Learning objectives	• To understand satellite system • To understand functional segments of GPS • To understand the navigation • To understand accuracy and Applicability of GPS	
Course outcomes	After successful completion of this course, students are expected to: • Will aware with satellite system • Able to handle GPS device • Able to captured waypoints • Able to apply of GPS in different applications	
Sr. No.	**Topic Particular**	**Hours**
Unit I	**Introduction of GPS** • Understanding the basics of GPS technology. • Components of a GPS system (satellites, receiver, and user) Satellite orbits and constellation. • Coordinate systems: latitude, longitude, and altitude	8
Unit II	**Basics of GPS** • GPS accuracy and error sources. • Planning a GPS data collection project • Collecting GPS waypoints, tracks, and routes • Importing and exporting GPS data	7
Unit III	**Analysis of GPS** • Data analysis using GIS software (e.g., Arc GIS, QGIS) • Mapping and visualizing GPS data • Integration of GPS data with Geographic Information Systems (GIS) • Mobile GPS	8
Unit IV	**Applications of GPS** • Creating GPS-based maps and layers • Analyzing and interpreting GPS data within GIS • GPS applications in various fields.	7
Study Resources	• Parkinson, B. W., & Spilker Jr, J. J. (1996). Global Positioning System: Theory and Applications (Vol. I). American Institute of Aeronautics and Astronautics. • Hofmann-Wellenhof, B., Lichtenegger, H., & Collins, J. (2007). Global Positioning System: Theory and Practice. Springer. • Leick, A. (2004). GPS Satellite Surveying (3rd ed.). Wiley. • Rizos, C., & Willis, P. (Eds.). (2013). Encyclopedia of Geodesy (Vol. 1). Springer. • Li, X., & Rizos, C. (Eds.). (2017). Handbook of Satellite Navigation and Global Positioning System. Springer. • Dana, P. H., & Hsu, L. T. (2009). GPS for Land Surveyors (3rd ed.). CRC Press.	

SEMESTER – II

F.Y.B.A.
SEMESTER - II
GEOG-DSC-121: Fundamentals of Human Geography

Total Hours: 60 **Credits: 4**

Learning objectives	• To understand the relationship of human and geography • To make the student aware of the major race of mankind • To acquaint variation in world religions • To understand the various primitive life in the world
Course outcomes	After successful completion of this course, students are expected to: • Aware of historical developments and contributions of various pioneers • How the subject emerges as a sub branch of human geography and its current scope • Know the diversity of world religion in a view of geography • Understand the rules applied for tribal life

Unit	Topic Particular	Hours
Unit I	**Introduction** • Definitions, Nature and Scope of Human Geography. • Branches of Human Geography • Approaches to the study of Human Geography • Man & Environmental Relationship • Determinism and Possibilism • Stop and Go Determinism	15
Unit II	**The Race of Mankind** • Meaning and definition of race • Physical basis of Racial groups • Classification of World Races (Caucasoid, Mongoloid, Negroid, Australoid) • Ethnic groups in India.	15

Unit III	**Religion and Languages**
	• Universalizing Religions & their distribution
	  o Christianity,
	  o Islam,
	  o Buddhism.
	• Ethnic Religions
	  o Hinduism,
	  o Shintoism,
	  o Judaism.
	• Major Languages in India and their distribution
		15

Unit IV	**Tribals Life**
	• Tribes
	  o Eskimos
	  o Budaun
		15

	○ Masai ○ Gond ○ Naga ○ Bhils • Food Gatherers	
Study Resources	• Hartshorne, T. A., & Alexander, J. W. (2010). Economic Geography. New Delhi: PHI Learning. • Lloyd, P., & Dicken, B. (1972). Location in Space: A Theoretical Approach to Economic Geography. New York: Harper and Row. • Siddhartha, K. (2000). Economic Geography: Theories, Process and Patterns, New Delhi: Kisalaya Publications. • Husain, M. (2002). Human Geography, New Delhi: Rawat Publication.	

F.Y.B.A.
SEMESTER - II
GEOG-DSC-122: Interpretation of SOI topographical maps

Total Hours: 60 **Credits: 2**

Learning objectives	• To Study basic principles topographical Topographic features of the Earth Surface • To develop the interpretative skill of student • To understand the map element of maps • To understand culture, communication and development of region	
Course outcomes	After successful completion of this course, students are expected to: • Able to understand Topographic features of the Earth Surface • Able to understand and interpret map • Aware of different elements of map. • Know the basic terminology used to describe physical processes and landscape forms.	
Unit	**Topic Particular**	**Hours**
Unit I	**Introduction to SOI topographical map** • Types of topographical maps • Index numbers (international world map series) • Grid and Grid reference system • Four figure & six figure grid	15
Unit II	• Convectional signs and symbols • Contour patterns • Relief represented by contour	15
Unit III	**Interpretation of topographical maps of Plain, Plateau and Mountainous desert Regions**	15

	• Physical features**:**
	  o Physiography
	  o Drainage
	  o Natural vegetation	

Unit IV	**Interpretation of topographical maps of Plain, Plateau and Mountainous desert Regions**
	• Cultural features:
	  o Settlement
	  o Transportation and communication
	  o Agriculture
		15

Study Resources	• Arjun,K. (2000). PratyakshikBhugol.SumeruPrakashan, Dombivali. • Ahirrao, D. Y. & Karanjkhele, E. K. (2002). PratyakshikBhugolSudhershanPrakashan, Nashik. • Singh, G. (2008). Map work and practical geography.Vikas Publishing House pvt.ltd, New Delhi. Mishra, • R. P. and Ramesh, A. (1986). Fundamental of Geography. Concept publication, New Delhi. • Singh, R. L. and Kanauja,.(1970). Map work and practical geography.Central book depot, Alahabad.	

F.Y.B.A.
SEMESTER - II
GEOG-MIN-121: Fundamentals of Human Geography

Total Hours: 60 **Credits: 4**

Learning objectives	• To understand the relationship of human and geography • To make the student aware of the major race of mankind • To acquaint variation in world religions • To understand the various primitive life in the world	
Course outcomes	After successful completion of this course, students are expected to: • Aware of historical developments and contributions of various pioneers • How the subject emerges as a sub branch of human geography and its current scope • Know the diversity of world religion in a view of geography • Understand the rules applied for tribal life	
Unit	**Topic Particular**	**Hours**
Unit I	**Introduction** • Definitions, Nature and Scope of Human Geography. • Branches of Human Geography • Approaches to the study of Human Geography • Man & Environmental Relationship • Determinism and Possibilism • Stop and Go Determinism	15
Unit II	**The Race of Mankind** • Meaning and definition of race • Physical basis of Racial groups • Classification of World Races (Caucasoid, Mongoloid, Negroid, Australoid) • Ethnic groups in India.	15

Unit III	**Religion and Languages**
	• Universalizing Religions & their distribution
	  o Christianity,
	  o Islam,
	  o Buddhism.
	• Ethnic Religions
	  o Hinduism,
	  o Shintoism,
	  o Judaism.
	• Major Languages in India and their distribution
		15

Unit IV	**Tribals Life**
	• Tribes
	  o Eskimos
	  o Budaun
		15

	○ Masai ○ Gond ○ Naga ○ Bhils • Food Gatherers	
Study Resources	• Hartshorne, T. A., & Alexander, J. W. (2010). Economic Geography. New Delhi: PHI Learning. • Lloyd, P., & Dicken, B. (1972). Location in Space: A Theoretical Approach to Economic Geography. New York: Harper and Row. • Siddhartha, K. (2000). Economic Geography: Theories, Process and Patterns, New Delhi: Kisalaya Publications. • Husain, M. (2002). Human Geography, New Delhi: Rawat Publication.	

F.Y.B.A.
SEMESTER - II
GEOG–SEC-121: Surveying

Total Hours: 30 **Credits: 2**

Learning objectives	• To know the types of surveying. • To study mechanism of surveying instrument. • To give knowledge with appropriate method of survey and instrument according to study and area • To enhance surveying skill.	
Course outcomes	After successful completion of this course, students are expected to: • Will Understand the procedure of surveying • Able to handle of surveying instruments. • Know the skills to use of appropriate method of survey and instrument according to study and area • Understand various purpose of surveying.	
Unit	**Topic Particular**	**Hours**
Unit I	**Introduction to surveying** • Definitions of Surveying • Principle of Surveying • Methods of Surveying	8
Unit II	**Type of surveying, surveying instruments and procedure** • Chain and tape • Plane table survey	7
Unit III	**Classification of surveying** • According to area • According to objectives • According to Surveying instruments • According to Methods of survey	8

Unit IV	**Leveling surveying**
	• Fundamental concept
	• Dumpy level: structure adjustment
	• Field book
	• Surveying Method of dumpy level
	  o Rise and fall
	  o Collimation
		7

Study Resources	• Bygott, J. (1955). Map work and Practical Geography.5th Edition, University Tutorial Press, London. • Davis, R.E. and Foote, F.S. (1953). Surveying, McGraw-Hill Book Co., New York. • Deshpande, G.B. (1991). Surveying, Everest Publishing House, Pune • Kanetkar T.P. and Kulkarni S.V. (1983). Surveying and Levelling (Part I and II),VidyarthiGruhaPrakashan, Pune. • Mishra, R.P, and Ramesh A. (2000). Fundamental of	

	Cartography, Concept Publishing,Company, New Delhi. • Monkhouse, F.X.J. & Wilkinson, H.R. (1989). Maps & Diagrams, B.I Publications, Bombay. • Robinson, A.H. & Sleep, R.D. (1969).Elements of Practical Geography, John Wileypublications, New York. • Singh Gopal (1996). Map Work and Practical Geography, Vikas Publishing House Pvt. Ltd.,New Delhi. • Singh, Lekhraj& Singh R. (1973). Map work and Practical, Central Book Depot. Allahabad. • Singh, R.C., and Dutta (1993). Elements of Practical Geography, Kalyani Publications, NewDelhi. • Singh, R.L., and Kanaujia L.R.S. (1963). Map Work and Practical Geography, Central BookDepot, Allahabad. • Singh, R.L., and Singh, R.P.B. (1997). Elements of Practical Geography, Kalyani Publishers,New Delhi.	

F.Y.B.A.
SEMESTER - II
GEOG-SEC-122: Plane-Table Survey

Total Hours: 30 **Credits: 1**

Learning objectives	• To acquire knowledge of survey language and sense of technique of surveying. • To provide basic information about mechanism of survey instruments. • To know the scale and distance of surveying. • To acquaint the students with basic knowledge and technique of ground survey.	
Course outcomes	After successful completion of this course, students are expected to: • Able to understand of survey language and sense of technique of surveying • Understand mechanism of survey instruments. • Able to know the scale and distance of surveying. • Enhance knowledge and technique of ground survey.	
Unit	**Topic Particular**	**Hours**
Unit I	• **Elements and Equipment's of Plane Table Survey:** o The plane table with a tripod stand o Alidade o Chain or Tape o Spirit level o Trough Compass o Ranging Rods o Plumb bob o Drawing essential: Paper, pencil, rubber, o drawing pins, pencil, sharpener, scale etc.	8
Unit II	• Methods of Plane Table Survey: o Radiation Method	7
Unit III	• Methods of Plane Table Survey: o Intersection Method o Traverse Method	8
Unit IV	• Advantages and Disadvantages of Plane Table Survey • Actual Measurement of Piece of Land (Each one)	7
Study Resources	• Monkhouse, F.X.J. & Wilkinson, H.R. (1971): Maps & Diagrams, London Methuen • Mishra, R.P and Ramesh A. (2000): Fundamental of Cartography, Concept Publishing Company, New Delhi. • Robinson, A.H. & Sleep, R.D. (1969): Elements of Practical Geography. New York, John Wiely • Singh Gopal (1996): Map Work and Practical Geography, Vikas Publishing House Pvt. Ltd., New Delhi • Singh, Lekhraj & Singh Raghunandan (1973): Map work and Practicl, Central Book Deopt. Allahabad	

	• Singh, R.L. and Singh, R.P.B. (1997): Elements of Practical Geography, Kalyani Publishers, New Delhi. • Sing, R.L.& Kanaujia L.R.S.(1963): Map Work and Practical Geography, Allahabad Central Book Depot • Gopal Sing (1973): Map work and Practical Geography, Vikas Publication, Ravindra Mansion, Ram Nagar, New Delhi-110055 • Dr. D. Y. Ahirrao and Dr. E. K. Karanjkhele, (2002) : Pratyakshik Bhugol, Sudarshan – Nashik • T. P. Kanetkar and S. V. Kulkarni, (1986) : Surveying and Leveling, Pune Vidyrthi Griha Prakashan –Pune