

U.G. 4th SEMESTER SYLLABUS
DEPARTMENT OF GEOGRAPHY
COTTON UNIVERSITY

Paper Code: GPH 401C

No. of Lectures: 48

Paper Title: Regional Geography of the World (5 Credits L+T+P = 3+1+1)

Unit	Content	No. of lectures
1	An overview of the world continents and oceans	2
2	Asia: physiography, climate, resources, industries and population characteristics	8
3	Geostrategic Regions of Asia: Far East, South-East Asia, South Asia and Middle East; China as an emerging economy	12
4	Europe: physiography, climate, resources, industries and population	8
5	North America: physiography, climate and resources, economy, industries and industrial regions of USA	10
6	Physiography and population characteristics of Africa, South America and Australia	8
7	Practical: Geographic regions of the world, major physiographic divisions of Asia; population distribution in Asia, population density in S. America, major manufacturing regions of USA; industrial regions of USA; mineral and power resources of East Asia, comparison of economic growth of USA, UK, India, China, S. Africa and Brazil	1 credit

Reading list:

- Bradshaw, M. et al, 2007: *Contemporary Regional Geography*, McGrawHill International Edition.
- Briggs, K., 1979: *A Geographical Note Book of North America*, Hoddenand Stoughton, London.
- Dobby, E. H. G., 1970: *Monsoon Asia: A Systematic Regional Geography*, University of London Press, London.
- Manku, D. S.: *A Regional Geography of the World*, Kalyani Publishers, New Delhi.
- Paterson, J. H., 1975: *North America*, Oxford University Press, London.
- Stembridge, J. (1973): *Geography of the World*, Oxford University Press, London
- Sounders, C. L., et al, 1998: *Essentials of World Regional Geography*, Saunders College Publishing, USA
- *Regional Geography Books of Modern Geography Series* (Asia, Europe, North America), University Tutorial Press, London.

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No. of Lectures: 48

Paper Title: Social and Cultural Geography (5 Credits L+T+P = 3+1+1)

Unit	Content	No. of lectures
1	Origin, nature and scope of social geography, approaches in social geography, concept of space: types and characteristics of space	9
2	Social categories: defining caste, class, ethnicity and their spatial underpinnings, social changes: factors and impacts of social changes, westernisation, sanskritization and modernisation	10
3	Geographies of welfare and wellbeing: concept and components of health care, housing and education with special reference to India and N.E India	10
4	Definition of culture, characteristics of culture- components of culture; cultural diffusion: definition, factors contributing to diffusion, process of cultural diffusion, major cultural regions of the world	12
6	Race – basis of racial classification, spatial diffusion and distribution of races, races in India, Cultural Ecology, Cultural Landscape	7
7	Practical: Distribution and concentration pattern among social groups (India/N.E. India/Assam), disparity pattern of population characteristics and social well-being, world distribution of races, religious hearths, migration of population	1 credit

Reading list:

- Sen. J., *A textbook of Social and Cultural Geography*, Kalyani Publishers, New Delhi
- Ahmed A., 1999: *Social Geography*, Rawat Publications.
- Casino V. J. D., Jr., 2009: *Social Geography: A Critical Introduction*, Wiley Blackwell.
- Cater J. and Jones T., 2000: *Social Geography: An Introduction to Contemporary Issues*, Hodder Arnold.
- Holt L., 2011: *Geographies of Children, Youth and Families: An International Perspective*, Taylor & Francis.
- Panelli R., 2004: *Social Geographies: From Difference to Action*, Sage.
- Rachel P., Burke M., Fuller D., Gough J., Macfarlane R. and Mowl G., 2001: *Introducing Social Geographies*, Oxford University Press.
- Smith D. M., 1977: *Human geography: A Welfare Approach*, Edward Arnold, London.
- Smith D. M., 1994: *Geography and Social Justice*, Blackwell, Oxford.
- Smith S. J., Pain R., Marston S. A., Jones J. P., 2009: *The SAGE Handbook of Social Geographies*, Sage Publications.
- Sopher, David (1980): *An Exploration of India*, Cornell University Press, Ithaca
- Valentine G., 2001: *Social Geographies: Space and Society*, Prentice Hall.
- Broek, J. C. and Webb, J. W., 1978: *A Geography of Mankind*, McGraw Hill, New York.
- Crans, Mike, 1998: *Cultural Geography*, Routledge, London.

U.G. 4th SEMESTER SYLLABUS
DEPARTMENT OF GEOGRAPHY
COTTON UNIVERSITY

- Jackson, R.H. and Hudman, L.E., 1990: *Cultural Geography: People, Places and Environment*, West Publishing Company, New York.
- Noble, A. G. and Dutt, A. K. (eds), 1982: *India: Cultural Pattern and Processes*, West View Press / Boulder, Colorado.
- Sauer, C.O., 1963: *Land and Life*, University of California Press, Berkeley.
- Zelinsky, W., 1973: *The Cultural Geography of America*, Princeton University Press, Princeton, N. J.

Paper Code: GPH 403C

No. of Lectures: 48

Paper Title: Geoinformatics (5 Credits L+T+P = 3+0+2)

Unit	Content	No. of lectures
1.	Geographical Information System (GIS) – definition, components, data types and structure; earth models and referencing systems; data sources, errors involved	8
2.	Concept of database management system (DBMS) and relational database management system (RDBMS), application areas of Geoinformatics with special focus on land and water resources, sustainable development planning and decision making.	10
3.	an introduction to geoinformatics; remote sensing: historical development, platforms, sensors and types of remote sensing; satellite remote sensing - principles, EMR interaction with atmosphere and earth surface, Landsat and IRS satellite data products and applications, visual interpretation keys	12
4.	Aerial photography: principles, types and geometry	8
5.	Introductory idea on Global Positioning System (GPS) – working principle, application and errors.	4
6.	Digital image processing and classification techniques	6
7.	Practical: Geo-referencing a part of a topographical map using a GIS software package, extraction of point, line and polygon features from topographical maps, attribute mapping and analysis, visual interpretation of satellite data, Determination of scale, relief displacements and aerial photograph interpretation, campus survey using GPS and preparation of map/ layout	2 credit

Reading list:

- Burrough P. A. and McDonnell R. A., 2000: *Principles of Geographical Information Systems–Spatial Information Systems and Geostatistics*, Oxford University Press.
- Chang K. T., 2009: *Introduction to Geographic Information Systems*, McGraw-Hill.

U.G. 4th SEMESTER SYLLABUS
DEPARTMENT OF GEOGRAPHY
COTTON UNIVERSITY

- Clarke K. C., 2001: *Getting Started with Geographic Information Systems*, Prentice Hall.
- DeMers M. N., 2000: *Fundamentals of Geographic Information Systems*, John Wiley & Sons.
- French, G. T. 1996: *Understanding the GPS: An Introduction to the Global Positioning System*, Geo Research Inc.
- Heywood I., Cornelius S. and Carver S., 2006: *An Introduction to Geographical Information Systems*, Prentice Hall.
- Schuurman N., 2004: *GIS – A Short Introduction*, Blackwell.
- Campbell J. B., 2007: *Introduction to Remote Sensing*, Guildford Press.
- Jensen J. R., 2004: *Introductory Digital Image Processing: A Remote Sensing Perspective*, Prentice Hall.
- Jensen, John R. (2011): *Remote Sensing of Environment: An Earth Resource Perspective*, Pearson Education India, Noida
- Joseph, G. 2005: *Fundamentals of Remote Sensing*, United Press India.
- Lillesand, T. M., Kiefer R. W. and Chipman J. W., 2004: *Remote Sensing and Image Interpretation*, Wiley. (Wiley Student Edition).
- Nag P. and Kudra, M., 1998: *Digital Remote Sensing*, Concept, New Delhi.
- Rees W. G., 2001: *Physical Principles of Remote Sensing*, Cambridge University Press.
- Singh R. B. and Murai S., 1998: *Space-informatics for Sustainable Development*, Oxford and IBH Pub.
- Wolf P. R. and Dewitt B. A., 2000: *Elements of Photogrammetry: With Applications in GIS*, McGraw-Hill.

Paper Code: GPH 404E

No. of Lectures: 48

Paper Title: Regional Geography of India and Assam (4 Credits L+T+P = 3+0+1)

Unit	Contents	No. of lectures
1	India: physiography, drainage climate, soil and natural vegetation	8
2	Distribution and utilization of mineral and power resources: coal. petroleum, natural gas and iron-ore; Agricultural production and distribution of rice and wheat, problems of agriculture; Industrial regions; iron & steel industry and automobile industry	12
3	Population characteristics: population growth, rural-urban, religious composition, age-sex composition and literacy.	10
4	Assam: locational significance, physiography, drainage, climate and soil	8
5	Resources of Assam: minerals, forest and wildlife; agriculture and industrial characteristics, tourism and its potentiality	10

U.G. 4th SEMESTER SYLLABUS
DEPARTMENT OF GEOGRAPHY
COTTON UNIVERSITY

6	<p>Practical: Mapping of spatial pattern of population density and distribution in India and Assam; cartographic representation of rural –urban composition and literacy ratio of India and Assam; mapping of spatial variation of soil of India and Assam; mapping of the national parks and sanctuaries of Assam mentioning the major species therein.</p>	1 credit
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Reading List:

- Deshpande C. D., 1992: *India: A Regional Interpretation*, ICSSR, New Delhi.
- Khullar, D. R. 2007: *India: A Comprehensive Geography*, Kalyani Publishers, New Delhi
- Mandal R. B. (ed.), 1990: *Patterns of Regional Geography – An International Perspective*. Vol. 3 – Indian Perspective.
- Sdyasuk Galina and P Sengupta (1967): *Economic Regionalisation of India*, Census of India.
- Sharma, T. C. 2003: *India - Economic and Commercial Geography*, Vikas Pub., New Delhi.
- Singh R. L., 1971: *India: A Regional Geography*, National Geographical Society of India.
- Singh, Jagdish 2003: *India - A Comprehensive and Systematic Geography*, Gyanodaya Prakashan, Gorakhpur.
- Spate O. H. K. and Learmonth A. T. A., 1967: *India and Pakistan: A General and Regional Geography*, Methuen, London.
- Tirtha, Ranjit 2002: *Geography of India*, Rawat Pub., Jaipur & New Delhi.
- Bose, A. et. al. eds, 2001: *Population in India's Development, 1947-2000*, Vikas, New Delhi.
- Pathak, C. R. 2003: *Spatial Structure and Processes of Development in India*, Regional Science Assoc., Kolkata
- Bhagabati, A. K., et.al. (ed), 2007: *Geography of Assam*, Rajesh Publications, New Delhi
- Bhattacharyya, N.N., 2005: *North East India: A Systematic Geography*, Rajesh Publications, New Delhi
- Goswami, P. C. 1988: *The Economic Development of Assam*, Kalyani Publication, New Delhi
- Gopal K. R., 1991: *The North East India, Land, Economy and People*, Vikas Publication, New Delhi
- Sharma, P. (Ed), 2006: *State of Environment, Assam, 2004*, ASTEC, Guwahati
- Sharma, S.K. & Sharma U., 2005: *Discovery of North-East India (11 Volumes)* Mittal Publications, New Delhi
- Taher, M. And Ahmed, P, 2007: *Geography of North- East India*, Mani Mani-Manik Prakash, Guwahati.
- Taher M. Ahmed P. 2005: *Assam: A geographical profile*, Mani-Manik Prakash, Guwahati.
