

**Record of percentage change in Syllabus**

Name of the Department : Department of Geography

Name of the Program: M.A. Geography

Paper No	Name of Paper	Whether included in year 2013-14 (Yes/No)	Whether included in year 2017-18 (Yes/No)	Percentage revised in Content #	Year of introduction or revision*	Remark (pls. mark which paper is a value added or skill development paper)
1	Geomorphology	Yes (102)	Yes CC 1	16	2018	Landscape Analyst Artitect, Employement in Road Project, Engineering Project, Oil exploration, Minning etc.
2	Climatology & Oceanography	Yes (103)	Yes CC 2	17	2018	Climatogist Climate change Analyst
3	History of Geographical Theory	Yes (101)	Yes CC 3	23	2018	-
4	Representation and analysis of stactical data Practical (104)	Yes (104) Group A & B	Yes CC 4	50	2018	Cartographer

5	Regional Planning & Rural Development	Yes (203)	Yes CC 5	42	2018	Rural Development Officer/Planner
6	Environment and Disaster Management	Yes (402)	Yes CC 6	10	2018	Environment Consultant, Nature Conservation Officer Pollution Analyst
7	Resource and Economic Geography	Yes (201)	Yes CC 7	13	2018	Sustainability Consultant
8	Geography of India	Yes (301)	Yes CC 8	37.5	2018	Tourism Officer, soil Conservation officer
9	Geographic Techniques	Yes (104 & 204)	Yes CC 9	17	2018	GIS Analyst

10	Quantative techniques and Research methodology	Yes (303)	Yes CC 10	4.5	2018	Data Analyst
11	Remote sensing and GIS	Yes (202)	Yes CC 11	0	2018	GIS Officer
12	Human and social Geography	NO	Yes CC 12	100	2018	Value Added
13	Landuse and Agricultural geography	Yes (403)	Yes CC 13	39	2018	Agriculture Officer
14	Instrumental Surveying GIS - GPS	Yes (304)	Yes CC 14	43	2018	System Analyst through GIS
15	Urban Geography, Political Geography, Population Geography, Geology/, Settlement Geography, Advance Cartography	Yes (401, 402, 403, & 302)	Yes EC 1	40	2018	Planning and Development Surveyer, Town Planner, Political Analyst, Electoral Data Analyst, Election Officer, Geological Survey of India, Cartographer, Researcher
16	Dissertation and Project work	NO	Yes EC 2	100	2018	Project Officer

Spl. Papers	Additional paper introduced in 2018-19 according to CBCS System					
Semester 1	Environtal sustainability and Swaccha Bharat Abhiyan	AECC - 1	New Syllabus			Envronmental awareness and Protection Value
Semester 2	Ability Enhancement Course	AEC - 1	New Syllabus			Skill Development
Semester 3		AECC - 2	New Syllabus			Value added course
Semester 4	Regional Planning and development Geography of Bihar	DSE - 1 GE (Generic Elective) EC (Elective Course)	CC - 5			-
Overall Change = Total Change in Percentage/Number of Papers offered in Year 2017-18				36.5%	16 Papers	

# Please Consult the attached performa for filling-up the data.

\*Mention all the years in which revisions have been carried out even in case of course/paper.

If the departments are running more than one programs, please do the same for all of them in the format

Signature

*U. Sharma*  
10.12.2018

Name of the HoD

**Head of the Department  
of Geography  
PATNA UNIVERSITY**

**Proforma for Filling-Up Data Related to the Revision in Courses/Paper**

स्नातकोत्तर विभाग —Geography— के विगत पाँच वर्षों 2013-18 के पाठ्यक्रमों में परिवर्तन का विवरण।

**Name of the Program:**

पेपर संख्या	पेपर का नाम तथा पेपर कोड सहित (Name of the Course/Paper with Code)	पेपर से हटाये गये विषय-वस्तु का विवरण (Details of the remove content)	पेपर में जोड़े गये विषय-वस्तु का विवरण (Details of the added content)
1	Geophysics & Geomorphology (M-102) Geomorphology (cc-1)	Concept of palaeomagnetism Fluvial landforms Geomorphological Hazards	Continental Drift Theory landforms Kasrst rainage Deusety
2	Climatology & Oceanography (M-103) Climatology & Oceanography (cc-2)	Evidence of climate change Recent changes in climate Oceanography neature &History Salinity of Ocean Water	Composition and Thermal structure of atmosphere El Nino and La Nina phenomena in Indian context
3	History of Geographical Thought (M-101) History of Geographical Thought (cc-3)	Nature of Geography-its relation with thoe subjects Development of Classical Geography in Greece & Rome Impact of Renaissance and Discoveries on trhe Development of Geographical Ideas Concept on Region and Regionalism Philosophical and Methodological Development in Geography during 20th Century Marxist Geography System Approach Phenomenology	Place of Geography in Science and Social Science Contribution by Greek and Roman Scholars with special reference to Eratosthenes, Herodotus, Aristotle, Plato, Strabo, Ptolemy Concept of Space Absolute, relative and abstract and Post modern space Structuralism
4	Representation and analysis of statical data Practica (104) Group A & B Representation and analysis of statical data Practica	Geological section and interpretation, Identification of Roccs and Minerals Geological Structure Projection - Galls, Sinusoidal , Mercators	NO

5	Regional Planning & Development (M-203) Regional Planning & Rural Development(CC5)	Regional Planning Concept Defining Development and Rural Development Gandhian approach to Rural Development	Method for Deloneation of Region Short Term Long Term Planning Remote Sensing and GIS application in Regional Planning Programme for Rural Development Regional Development and Succesive five year plan Recent Programmes and Policies for regional Deveopment
6	Environment and Digaster Management (M-402) Environment and Digaster Management(CC6)	Components of ecosystem- Complete and incomplete ecosystem Man induced environmental change with special reference to Kosi and Gandak Projects. Environmental laws in India: The wild life Act, Forest Act	Earth Summit National Action Plan on Climate Change in India Disaster: Man-made Disaster- their types- Technological and Industrial Disaster Man-made disasters: examples from India Mapping the disasters
7	Resource and Economic Geography (201) Economic Geography(CC 7)	No	Natural Gas Detailed study of Mansoon and Mediterranean agriculture Suger Industry Power Industry Power Resources-Coal & Petrolium concept of Distance Conectivity & accesibility.
8	Geography of India(M-301) Geography of India(CC8)	Characteristics of Soil Vegetation Types and Natural Gas Human Resources: Development and problems, Policies of Human Resource Development Regional Variation in levels of human resource development. Cultural disparities. Industrial Development during plan period Agricultural Development during plan period Agricultural Regions of India Socio-economic studies of the following natural regions of India: Middle Ganga Plains, Assam Valley, Malabar Coastal Plains, Jammu & Kashmir and Tamilnadu	Soil Erosion and Conservation Human Resources and Social Well being: Social well-being and its indicators Human Development Index (HDI) Agriculture Revolution in India-Green, Blue, Yellow and White Special distribution of Tribes, Major Linguistic Groups and Ethnicity, Social and Gender inequality in India.
9			

10	Quantative techniques and Research methodology (M-303) Quantitative techniques and Research methodology (CC10)	Review of Literature	NO
11	Remote sensing and GIS(M-202) Remote sensing and GIS(CC5)	History of Remote sensing in India Data Models and Modelling	NO
12	Human and social Geography CC-12	Added 100%	New Paper Added
13	Landuse and Agricultural geography (M-403) Landuse and Agricultural geography (CC-13)	India since Independence Approaches to the study of agriculture in Geography	Major Land Reforms in India Land use pattern in India Planning of Land Use in India Fundamental concept of Agriculture Geography History of Agriculture Geography Crop-combination and diversification Non-Agricultural Technology Green revolution and White revolution in India Agro-Climatic regions of India Agricultural Problems and Policies
14	Instrumental Surveying GIS - GPS (M-304) Instrumental Surveying GIS - GPS (CC-14)	Theodolite Survey: Vertical and Horizontal Angles (Contouring through Studia Constant Mrthod) Resection by plan table Population rejection by different methods, Polygraphs	Theodolite Survey: Formation and Calculation of Triangles Preparation of Ground Plan Measurement of baseline and its extension Formation of Polygon GIS and GPS
15	Urban Geography, Political Geography, Population Geography, Geology/, Settlement Geography, Advance Cartography	Practical in 401, 402, 403 Deleted	New Paper Added EC-1
16	Dissertation and Project work (EC-2)	Added 100%	NO

17			
18			
19			

*U. Verma*  
10.12.2018

Signature

Name of the HoD

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of Geography  
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