Self-Study Report (SSR) - Criterion-1

Information to be submitted by Departments/Directorates/Centres for Each Programme Offered

				entres for Each Progra							
1	Department/Directora	nt/Directorate/Centre/Institute: Geoinformatics									
2	Name of the Programm	e Offered:	MSc and PhD Geoinformatics								
3		link of the complete/updated syllabus:	The proceduration and with an Proceduration (1/2 day) 1999, 1995/1999 (1/2 day) 1999, 1995/1999 (1/2 day) 1999, 1995/1999 (1/2 day) 1999,								

4	Number of Courses in t	he Programme? s introduced in the Programme since 2019?		44							
5A 5B	List of New Courses int						6				
		Course Title	Brief Description								
			, ,								
	GI19104CR	Seminar and Hands-On	To build the communication skills, and scientific paper reading/writing of the students								
	GI19108GE GI19204CR	GIS Basics Mapping from Space	To impart basic GIS skills like geospatial analysis, map making amongst students Individual/Group assignment on geospatial mapping and analysis so as to train them in geoinformatics								
	GI192090E	Applications of GIS	To teach students common applications of GIS with focus on utrilities and hazards								
	GI19307DCE	Fieldwork	Candidates are taken for field work within state for understanding different land surface process and collection of field data								
_		04CR Ground Truth Students are required to carry out ground validation of of the assigned research/project work									
5C	Programme since 2019	link in support of New Courses introduced in the .	mpa-rasomorninis assaucia in 1 in a contraction in 100 and 100		77 1811 200-02-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0		•				
6A	Dates of syllabus revisi	ons during the last five years. (2019-2023)	27-04-2019								
6B	Departmental website	partmental website link in support of syllabus revisions. https://ecoinformatics.uok.edu.in/Main/Default.aspx									
7	Are Programme Outcor	nes (POs) clearly mentioned in the syllabus? (Y/N)					YES				
8	Are the Course Outcom	es (COs) mentioned for each course of the programm	e? (Y/N)				YES				
9A		relevance to local, regional & global developmental					YES				
	List of courses address		(111)				10				
		Course Title	Brief Justification	~							
		Seminar and Hands-On	The students are required to deliver Powerpoint presentations on local issues. Additionally, the students are required to dig	nue socat maps/plans.							
	GI19204CR GI19304CR	Mapping from Space Term work	The students are required to delineate local natural resources like lakes/wetlands, glaciers, and geomorphology. Students are required to work on any easpect of environment and do a thgorough literature review in areas pertaining to atm	nounhara hudrounhara/crh	hiomban physical	shu ate					
					., osospiicie, priysicai geograf	my, us.					
	GII9307DCE GII9401CR	Fieldwork Project work	Students are required to do field work related to accuracy assessment of land use, glaciers, waterbodies, infrastructure, etc								
ŀ	GI19401CR GI19404CR	Project work Ground Truth	A full feldged research project having local and regional significance on any aspect of environment Students are required to perform validation of lab-generated land use, infrastructure, resources, etc								
	List of courses address	ing Regional Needs:									
ŀ	Course Code GI19206DCE	Course Title Disaster, risk and hazard assessment	Brief Justification The curriculum is designed to provide students insights into regional disasters facing the country								
ļ											
		Remote sensing for urban and regional planning	This subject helps disseminate knowledge about the application of remote sensing in urban planning with case studies at co								
	GI19305DCE	SDCE Glaciology This subject equips students about the state and fate of Himulayan crysophere and how it responds to transient environmental changes									
	GI19405DCE	Climatology and climate change	This subject equips students in the area of climate and climate changes previaling at regional and global scales								
	List of courses address Course Code										
j	GI19105DCE	Course Title Digital cartography and geoinformation visualization	Digital cartography is an advanced field of geospatial sciences where technical skills of students are honed in the area of ma	ip making							
	GI19301CR	Field survey and GNSS	This subject builds the skills of students in the field of global navigation statellite systems								
	GI19301CR GI19403CR	Open-source GIS	This subject builds the skules of students in the next of global navigation statellite systems This course helps the students to get familiar with open-source GIS softwares so that there is less reliance on propriety softwares to that there is less reliance on propriety softwares to the students to get familiar with open-source GIS softwares so that there is less reliance on propriety softwares to the students to get familiar with open-source GIS softwares to that there is less reliance on propriety softwares to the students to get familiar with open-source GIS softwares to that there is less reliance on propriety softwares to the students of th	wares.							
			THE COME OF THE PROPERTY OF THE STATE OF THE								
		offer focus on Employability/ Entrepreneurship/ Ski	development courses? (Y/N) YES								
	List of Employability C Course Code	ourses: Course Title	Brief Justification								
- 1	GI19102CR	Fundamentals of Remote Sensing	This subject helps disseminate knowledege about the application of remote sensing in various environmental	concerns at regional and natio	nal level						
		GIS Basics Mapping from space	This subject builds the skills of sudents in the field of Coninformation oystems This subject builds the skill of sudents in the field of Coninformation oystems This subject builds the skill of sudents in the field of Suprings integretation.								
		Disaster, Risk and Hazard Assessment	This subject builds the skills of students in the field of Mapping, interpretation and analysis of disaster related issues and problems								
		Field Survey and GNSS	This subject builds the skills of suddens in the field of global navigation statellite systems. This subject to make the skills of suddens in the field of global navigation statellite systems are also supported by the subject to t								
100	GI19405DCE List of Entrepreneurs	Climatology and Climate Change hip Development Courses:	This subject equips students in the area of climate and climate changes previaling at regional and global scales								
		Course Title	Brief Justification								
ĺ	GI19102CR	Fundamentals of Remote Sensing	This subject helps disseminate knowledege about the application of remote sensing in various environmental of this subject helps disseminate knowledge about the application of remote sensing in various environmental of this subject helps disseminate knowledge about the application of remote sensing in various environmental of this subject helps disseminate knowledge about the application of remote sensing in various environmental of this subject helps disseminate knowledge about the application of remote sensing in various environmental of this subject helps disseminate knowledge about the application of remote sensing in various environmental of this subject helps disseminate knowledge about the application of remote sensing in various environmental of the application of the appli	concerns at regional and natio	nal level						
	GI19204CR	GIS Basics Mapping from space	This subject builds the skills of students in the field of Mapping, interpretation.								
ı	GI19206DCE	Disaster, Risk and Hazard Assessment Field Survey and GNSS	This subject builds the skills of students in the field of bodgen, interpretation and analysis of diseaser related issues and problems This subject builds the skills of students in the field of bodgen, interpretation and analysis of diseaser related issues and problems This subject builds the skills of students in the field of doblem assignition startfell or systems.								
		301CR Field Survey and GNSS This subject builds the skills of students in the field of global navigation statellite systems									
IOD	List of Skill developme	Holoco Unit Course: On Course Course Of Still developed and Course Of Still									
ŀ	Course Code GIP19101CR	Course Title Practical-Computers and geoinformation management	Brief Justification The practical course helps students develop reasoning skills, expose them to basics of programming and its relevance in geo	spatial analysis							
	GIP19102CR	Practical-Fundamentals of remote sensing									
ļ	GIP19103CR	Practical-Fundamentals of GIS	This course builds technical skills of students in geospatial analysis								
L	GIP19103CR GI19104CR	Practical-Fundamentals of GIS Seminar and hands-on	This course builds technical skills of students in geospatial analysis This course helps students to deliver presentations to scientific audience and improve mapping skills								
	GIP19201CR	Semmar and hands-on The course register presentations to scenario and area of an advantage over optical data. Pactical Production devices are remote sensing and an advantage over optical data.									
	GIP19202CR										
	GIP19203CR	Practical-Advanced geoinformatics	This course builds technical skills of students in geomatics and its applications								
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	GI19204CR	Mapping from space	The students are given assignement on mapping the landscape elements like forests, glaciers, snow, wetlands, etc.									
	GIP19301CR	Practical-Field survey and GNSS The students are provided hand on experience so that they are able to use surveying and GNSS instruments like GPS, laser distance meters, total station, etc.										
	GIP19305DCE	Practical-Glaciology	Students are exposed to undertand glacier dynamics through remote sensing, physically-based models and ground truth									
	GI19307DCE	Fieldwork	Students are taken to field work within the state to get familiar with the reources and environmental issues where geomat	ics could have a	role in mapping ar	d modellingh	that particular re	source				
	GIP19402CR	Help's sudents build skills in the field of groups attained:										
	GI19403CR	Open source GIS This course helps the students to get familiar with open-source GIS softwares so that there is less reliance on propriety softwares. Ground truth Students are required to perform validation of lab-generated land use, infrastructure, resources, etc										
	GI19404CR											
	D #b	rouranne have courses addressine Profesional ethics/ gender/ human values/ environment/ sustainability 8 other value framework enthrined in NP2020/etc. (Y/N)										
	, ,	<u> </u>	17 Italian values/ environment/ sustainability a other value framework ensiring an Acr2020/etc. (17A)									
	List of courses address	ing Professional Ethics:										
11A	Course Code	Course Title	Brief Justification									
11B	GI19401CR List of courses address	Project work	This course will help the students to develop ethical understanding of use of different datasets and softwar	e required for	research purpose	÷.						
		Course Title	Brief Justification									
110												
		ing Human Value Issues: Course Title	Brief Justification									
11D		Disaster, risk and hazard assessment	This subject builds the technical know-how of students in hazards, vulnerability, exposure, risk on the disasters facing th	Himalava								
	GI19405DCE	Climatology and Climate Change	This subject equips students in the area of climate and climate changes previaling at regional and global scales									
		Course Title	Brief Justification									
11E	GI19104CR	Seminar and hands-on Disaster, risk and hazard assessment	Students are asked to present and work on local environmental issues through geomatic tools This subject builds the technical know-how of students in hazards, vulnerability, exposure, risk on the disasters facing th	Himalana		1						
	GI19208GE	Applications of remote sensing	This subject helps the students understand various environmental issues through the application of remotre sensing method	ids/ local case st	tudies							
	GI19209OE GI19304CR	Applications of GIS Term work	This subject helps the students understand various environmental issues through the application of geomatic tools/ local This subject is aimed to build the understanding of students in various aspects of earth and environmental sciences through	ase studies			-					
	GI19307DCE	Fieldwork	Students are taken to field work within the state to get familiar with the reources and environmental issues where geomat	ics could have a	role in mapping ar	d modellingh	that particular re	source				
		Ground truth	Students are required to perform validation of lab-generated land use, infrastructure, resources, etc									
	List of courses address	ing Sustainability issues:										
	Course Code	Course Title	Brief Justification									
11F	GI19204CR	Mapping from space	The students are given assignement on mapping the landscape elements like forests, glaciers, snow, wetlands, etc. for									
		Remote sensing for urban and regional planning	This subject helps disseminate knowledge about the application of remote sensing in urban planning with case studies at country level	1		<u> </u>						
	GI19405DCE	Climatology and climate change	Students are taught basic of climate changes and its impact on sustainable development of population, infrastructure and resources									
	GI19407GE	Natural disasters	Students are taught basic of natural disasters, their mitigation and role of geomatics in mitigating natural disasters									
	List of courses address	courses addressing Other Value Framework enshrined in NEP2020/etc.:										
	Course Code											
11G	6											
			• 4144									
		/Directorate/Institute/ Centre offer Diploma Progra										
12A	Details of the Diploma	Programmes offered by the institutions where the s	tudents of the institution have enrolled and successfully completed during the last five years (2019-2023)	Year of	Contact hours	Number of	Number of	Departmental website link to the relevant	Number of students enrolled in the year			
12A 12B	Details of the Diploma			Year of Offerinale	Contact hours	Number of students	Number of Students	Departmental website link to the relevant document	Number of students enrolled in the year			
	Details of the Diploma	Programmes offered by the institutions where the s	tudents of the institution have enrolled and successfully completed during the last five years (2019-2023)	Year of Offerinale		Number of students	Number of Students	Departmental website link to the relevant document	Number of students enrolled in the year			
	Details of the Diploma	Programmes offered by the institutions where the s	tudents of the institution have enrolled and successfully completed during the last five years (2019-2023)	Year of Offerinale		Number of students	Number of Students	Departmental website link to the relevant document.	Number of students enrolled in the year			
	Details of the Diploma	Programmes offered by the institutions where the s	tudents of the institution have enrolled and successfully completed during the last five years (2019-2023)	Year of Offerinate		Number of students	Number of Students	Departmental website link to the relevant abcomment.	Number of students enrolled in the year			
	Details of the Diploma	Programmes offered by the institutions where the s	tudents of the institution have enrolled and successfully completed during the last five years (2019-2023)	Year of Offerinale		Number of students	Number of Students	Departmental website link to the relevant document.	Number of students enrolled in the year			
	Details of the Diploma Programme Code	Programmes offered by the institutions where the s Name of Diploma Programme	Lusients of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Programme (Online Off line)	Year of Offeringle		Number of students	Number of Students	Departmental website link to the relevant document.	Number of students enrolled in the year			
	Details of the Diploma Programme Code Does the Department	Programmes offered by the institutions where the s Name of Diploma Programme Diploma Programme	tusients of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Programme (Online) Offline) reset (Y/N)	Year of Offerinale		Number of students	Number of Students	Departmental website link to the relevant decument	Number of students enrolled in the year			
128	Details of the Diploma Programme Code Does the Department Details of the Certific.	Programmes offered by the institutions where the s Name of Diplama Programme Diplama Programme	Tustents of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Programme (Online / Offline) see 2 (V/N) dents of the institution have enrolled and successfully completed during the last five years (2019-2023)	Offerinale	of course	students	Students	Departmental website link to the relevant denument				
12B	Details of the Diploma Programme Code Does the Department Details of the Certific.	Programmes offered by the institutions where the s Name of Diploma Programme Diploma Programme	tusients of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Programme (Online) Offline) reset (Y/N)	Offerinale	of course	students	Students	denoment.	Number of students enrolled in the year			
128	Details of the Diploma Programme Code Does the Department Details of the Certific.	Programmes offered by the institutions where the s Name of Diplama Programme Diplama Programme	Tustents of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Programme (Online / Offline) see 2 (V/N) dents of the institution have enrolled and successfully completed during the last five years (2019-2023)	Offerinale	of course	students	Students	denoment.				
12B	Details of the Diploma Programme Code Does the Department Details of the Certific. Course Code	Programmes offered by the institutions where the s Name of Diploma Programme Directorate/institute/ Centre offer Certificate Coute ate Course offered by the institutions where the sta Name of Certificate Course	Justices of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Programme (Online) Offline) Insest (Y/N) Insest (Y/N) Mode of Course (Online) Offline)	Offerinale	of course	students	Students	denoment.				
12B	Details of the Diploma Programme Code Does the Department Details of the Certific. Course Code	Programmes offered by the institutions where the s Name of Diplama Programme Diplama Programme	Justices of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Programme (Online) Offline) Insest (Y/N) Insest (Y/N) Mode of Course (Online) Offline)	Offerinale	of course	students	Students	denoment.				
12B	Details of the Diploma Programme Code Does the Department Details of the Certific. Course Code	Programmes offered by the institutions where the s Name of Diploma Programme Directorate/institute/ Centre offer Certificate Coute ate Course offered by the institutions where the sta Name of Certificate Course	Justices of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Programme (Online) Offline) Insest (Y/N) Insest (Y/N) Mode of Course (Online) Offline)	Offerinale	of course	students	Students	denoment.				
12B	Does the Department	Programmes offered by the institutions where the s Name of Diplama Programme	Justices of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Programme (Online) Offline) Insest (Y/N) Insest (Y/N) Mode of Course (Online) Offline)	Offerinale. Year of Officinale.	Contact hours	Number of students.	Number of Esudants	Departmental website link to the relevant				
13A 13B	Details of the Diploma Programme Code Does the Department Details of the Certific. Course Code Does the Department. Details of the Value A.	Programmes offered by the institutions where the s Name of Diplama Programme	Judents of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Programme (Online I Offline) Inser? (Y/N) dents of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Course (Online I Offline) ourses? (Y/N)	Offerinale	of course	Number of students.	Number of Esudants	denoment.				
13A 13B	Details of the Diploma Programme Code Does the Department Details of the Certific. Course Code Does the Department. Details of the Value A.	Programmes offered by the institutions where the state of Diploma Programme Director aterinstitute/ Centre offer Certificate Coate Courses offered by the institutions where the state of Certificate Course	Tudents of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Programme (Online/Offline) White the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Course (Online/Offline) Sourses? (Y/N) Mode of Course (Online/Offline)	Offerinale. Year of Officinale.	Contact hours	Number of students.	Number of Esudants	Departmental website link to the relevant	Number of students enrolled in the year			
13A 13B	Details of the Diploma Programme Code Does the Department Details of the Certific. Course Code Does the Department. Details of the Value A.	Programmes offered by the institutions where the state of Diploma Programme Director aterinstitute/ Centre offer Certificate Coate Courses offered by the institutions where the state of Certificate Course	Tudents of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Programme (Online/Offline) White the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Course (Online/Offline) Sourses? (Y/N) Mode of Course (Online/Offline)	Offerinale. Year of Officinale.	Contact hours	Number of students.	Number of Esudants	Departmental website link to the relevant	Number of students enrolled in the year			
13A 13B	Does the Department Does the Department Details of the Certific Course Code Does the Department Course Code Details of the Value Ac Course Code	Programmes offered by the institutions where the s Name of Diploma Programme //Directorate/Institute/ Centre offer Certificate Cou ate Courses offered by the institutions where the st Name of Certificate Course //Directorate/Institute/ Centre offer Value-Added Course ddded Courses offered by the institutions where the st Name of Value-Added Course	Tudents of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Programme (Online/Offline) White the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Course (Online/Offline) Sourses? (Y/N) Mode of Course (Online/Offline)	Offerinale. Year of Officinale.	Contact hours	Number of students.	Number of Esudants	Departmental website link to the relevant	Number of students enrolled in the year			
13A 13B	Does the Department Does the Department Details of the Certific Course Code Does the Department Course Code Details of the Value Ac Course Code	Programmes offered by the institutions where the s Name of Diploma Programme //Directorate/Institute/ Centre offer Certificate Cou ate Courses offered by the institutions where the st Name of Certificate Course //Directorate/Institute/ Centre offer Value-Added Course ddded Courses offered by the institutions where the st Name of Value-Added Course	Audients of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Programme (Online I Offline) Insert (Y/N) Mode of Course (Online I Offline) Mode of Course (Online I Offline) tudents of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Course (Online I Offline) tudents of the institution have enrolled and successfully completed during the last five years (2019-2023) Mode of Course (Online I Offline)	Offerinale. Year of Officinale.	Contact hours	Number of students.	Number of Esudants	Departmental website link to the relevant	Number of students enrolled in the year			
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	Project work	15 per year	15 per year	https://geoinformatics.uok.edu.in/Main/Default.aspx			
GI19404CR	Ground Truth	15 per year	15 per year	https://geoinformatics.uok.edu.in/Main/Default.aspx			
Any other Relevant Ir	other Relevant Information:						
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Signature of the Head/Director of the Department/Centre/Institute

Kindly format the syllabus in light of the instruction and discussions held in past meetings and upload the syllabus on the Departmental Website.
 Upload valid proofs on the Departmental Website.