

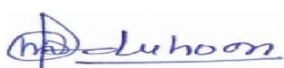
**Learning Outcomes based Curriculum Framework  
(LOCF)**

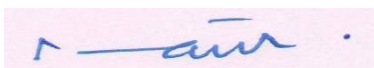
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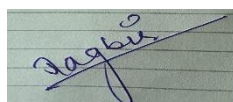
**M. A./M.Sc. (Geography)  
Post Graduate Programme**

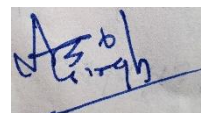


**Department of Geography  
Chaudhary Devi Lal University  
Sirsa-125055  
2021**



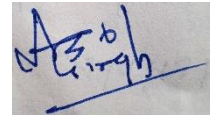
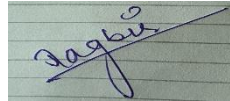






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## 1. About the Department

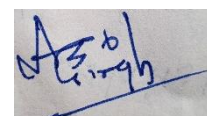
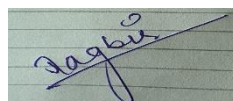
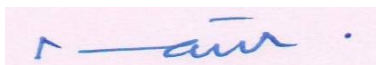
The Department of Geography, Chaudhary Devi Lal University, Sirsa was established under the faculty of Social Sciences in July 2017. The Department is located at the second floor of Tagore Bhawan of the University. The first batch of the students was admitted in July, 2017. So far the department has produced about 100 post graduate students. Currently, department is running M.A. (two year) program. The Department of Geography has two well aerated classrooms for M.A. (Previous) and M.A. (Final) with defined sitting arrangement, electricity facility with power back-up, projector. Department has one lab having practical equipment facility based learning of subject domain. Presently, there are one APC and four PTTs working as faculty members in the department. The department is equipped with LCD projector, cartography and computer lab to learn and enhance the practical knowledge. It has conducted several extension lectures from the very eminent personality in the field of Geography. In the year 2019, our six students qualified UGC-NET. We are also planning to procure GIS Lab in the department in upcoming days.

## 2. Learning Outcome based Curriculum Framework

The Choice Based Credit Scheme has evolved into learning outcome based curriculum framework and provides an opportunity for the students to choose courses from the prescribed courses comprising core, elective/minor or skill-based courses. The courses can be evaluated following the grading system, which is considered to be better than the conventional marks system. Grading system provides uniformity in the evaluation and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations which enables the student to move across institutions of higher learning. The uniformity in evaluation system also enables the potential employers in assessing the performance of the candidates.

### 2.1 Objectives of the Programme

The main objective of each course will be to appreciate the relevance of geographical knowledge. Further to demonstrate the ability to communicate geographic information by utilizing both lecture and practical exercises. It will also enhance the ability to evaluate and solve geographical problems effectively. Exposure on skills in using geographical research tools including spatial statistics, cartography, remote sensing, GIS, IRNSS and Geoscience will be given. Based on the field knowledge and advanced technologies, the students should be able to understand the on-going geographical problems in different regions and levels with appropriate pragmatic solutions



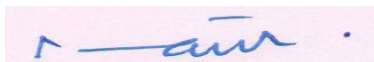
## 2.2 Programme Outcomes (POs)

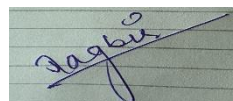
<b>PO1</b>	Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during course of study
<b>PO2</b>	Research Aptitude	Capability to ask relevant/appropriate questions for identifying, formulating and analyzing the research problems and to draw conclusion from the analysis
<b>PO3</b>	Communication	Ability to communicate effectively on general and scientific topics with the scientific community and with society at large
<b>PO4</b>	Problem Solving	Capability of applying knowledge to solve scientific and other problems
<b>PO5</b>	Individual and Team Work	Capable to learn and work effectively as an individual, and as a member or leader in diverse teams, in multidisciplinary settings.
<b>PO6</b>	Investigation of Problems	Ability of critical thinking, analytical reasoning and research-based knowledge including design of experiments, analysis and interpretation of data to provide conclusions
<b>PO7</b>	Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices
<b>PO8</b>	Science and Society	Ability to apply reasoning to assess the different issues related to society and the consequent responsibilities relevant to the professional scientific practices
<b>PO9</b>	Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating in learning activities throughout life
<b>PO10</b>	Ethics	Capability to identify and apply ethical issues related to one's work, avoid unethical behaviour such as fabrication of data, committing plagiarism and unbiased truthful actions in all aspects of work
<b>PO11</b>	Project Management	Ability to demonstrate knowledge and understanding of the scientific principles and apply these to manage projects

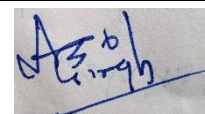
## 2.3 Programme Specific Outcomes (PSOs)

<b>PSO 1</b>	Understanding the human and physical environmental phenomena using specialized knowledge pertaining to various sub-fields of geography.
<b>PSO 2</b>	Ability to use the state of art geospatial knowledge for resolving the social, economic, cultural and physical problems of the society.
<b>PSO 3</b>	Learning the techniques of data acquisition, data processing and interpretation of locational and spatial data.
<b>PSO 4</b>	Ability to demonstrate and communicate the geographical knowledge and inculcate analytical ability, research aptitude and relevant skills.

 Dr. Duhoon

 Dr. Anwar

 Jagbis

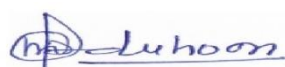
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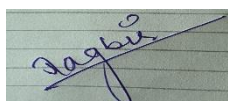
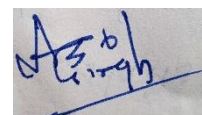
### 3. Programme Structure

M.A. Geography- a four-semester postgraduate programme is 110 credits weightage consisting of Core Courses (CC), Discipline Specific Elective Courses (DSC), Skill Enhancement Courses (SEC) and Open Elective Courses (OEC).

**Table 1**  
**Semester Wise Courses and Credit Scheme**

Sem ester	Core Courses (CC)		Discipline Specific Elective Courses (DSC)		Skill Enhancement Courses (SEC)		Open Elective Courses (OEC)		Grand Total Credits
	No. of Courses	Total Credits (T+P)	No. of Courses	Total Credits (T+P)	No. of Courses	Total Credits (T+P)	A total of 08 credits are to be earned from other Departments or from MOOCs <i>Students have to opt open elective course in consultation with chairperson.</i>		
1 <sup>st</sup>	4	16+0	2	08+0	1	0+04			28
2 <sup>nd</sup>	4	12+04	1	04+0	-	-			24
3 <sup>rd</sup>	4	16+0	2	08+0	1	0+04			32
4 <sup>th</sup>	4	14+0	2	08+0	1	0+04			26
<b>Total</b>	<b>Core Credits</b>	<b>62</b>	<b>Discipline Specific Elective Credits</b>	<b>28</b>	<b>Skill Enhancement Credits</b>	<b>12</b>	<b>Open Elective Credits</b>	<b>08</b>	<b>110</b>
<b>Per- cent</b>	<b>Core Credits</b>	<b>56.4</b>	<b>Discipline Specific Elective Credits</b>	<b>25.5</b>	<b>Skill Enhancement Credits</b>	<b>10.9</b>	<b>Open Elective Credits</b>	<b>7.2</b>	<b>100</b>




**Note:**

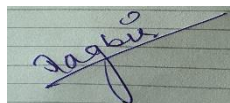
1. \*The OEC credits are to be earned from OEC courses being offered by departments other than Geography.
2. T: Theory, P: Practical
3. For one credit of practical, two hours of laboratory work would be conducted.
4. For a course of 4 credits, there will be one hour of tutorial class. A course with practical will not have no tutorial class. Teaching hours of tutorials will be counted towards the workload of teachers.

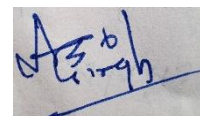
**Table 2  
Detailed break-up of Credit Courses**

	Core Courses	Discipline Specific Courses	Skill Enhancement Courses	Open Elective Courses	Total Courses			
	CC	DSC	SEC	OEC				
Semester 1 <sup>st</sup>	CC-1	DSC-1 DSC-2	SEC-1	OECs offered by other departments or MOOCs <b>(May be enrolled in 2<sup>nd</sup> and 3<sup>rd</sup> semesters)</b>  <i>Students have to opt open elective course in consultation with chairperson and Director, University Centre for Outreach Programmes and Extension</i>	<b>7</b>			
	CC-2							
	CC-3							
	CC-4							
Semester 2 <sup>nd</sup>	CC-5	DSC-3			OECs offered by other departments or MOOCs <b>(May be enrolled in 2<sup>nd</sup> and 3<sup>rd</sup> semesters)</b>  <i>Students have to opt open elective course in consultation with chairperson and Director, University Centre for Outreach Programmes and Extension</i>	<b>6</b>		
	CC-6							
	CC-7							
	CC-8							
Semester 3 <sup>rd</sup>	CC-9	DSC-4 DSC-5	SEC-2			OECs offered by other departments or MOOCs <b>(May be enrolled in 2<sup>nd</sup> and 3<sup>rd</sup> semesters)</b>  <i>Students have to opt open elective course in consultation with chairperson and Director, University Centre for Outreach Programmes and Extension</i>	<b>8</b>	
	CC-10							
	CC-11							
	CC-12							
Semester 4 <sup>th</sup>	CC-13	DSC-6 DSC-7	SEC-3				OECs offered by other departments or MOOCs <b>(May be enrolled in 2<sup>nd</sup> and 3<sup>rd</sup> semesters)</b>  <i>Students have to opt open elective course in consultation with chairperson and Director, University Centre for Outreach Programmes and Extension</i>	<b>7</b>
	CC-14							
	CC-15							
	CC-16							







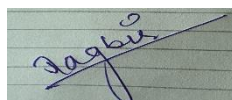


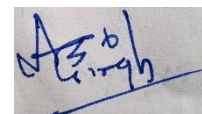
**Table 3**  
**Course code and Title along with Credits Details**

<b>Semester-1<sup>st</sup></b>				
<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>		
		<b>Theory</b>	<b>Practical</b>	<b>Total</b>
MA/M.Sc./GEO/1/CC1	Climatology	04	00	04
MA/M.Sc./GEO/1/CC2	Geography of India	04	00	04
MA/M.Sc./GEO/1/CC3	Economic Geography	04	00	04
MA/M.Sc./GEO/1/CC4	Statistical Methods in Geography	04	00	04
<b>CHOOSE ANY TWO FROM GIVEN OPTIONS</b>				
MA/M.Sc./GEO/1/DSC 1	Geography of Rural Settlements	08	00	08
MA/M.Sc./GEO/1/DSC 2	Agricultural Geography with Special Reference to India			
MA/M.Sc./GEO/1/DSC 3	Urban Geography			
MA/M.Sc./GEO/1/DSC 4	MOOC & SWAYAM Programme			
<b>CHOOSE ANY ONE FROM GIVEN OPTIONS</b>				
MA/M.Sc./GEO/1/SEC 1	Cartographic Methods in Geography (Practical)	00	04	04
MA/M.Sc./GEO/1/SEC 2	Computer Aided Statistical Diagrams and Graphs (Practical)			
<b>CREDITS</b>		<b>24</b>	<b>04</b>	<b>28</b>
<b>Semester-2<sup>nd</sup></b>				
MA/M.Sc./GEO/2/CC5	Geomorphology	04	00	04
MA/M.Sc./GEO/2/CC6	Regional Planning in India	04	00	04
MA/M.Sc./GEO/2/CC7	Oceanography	04	00	04
MA/M.Sc./GEO/2/CC8	Morphometric Analysis (Practical)	00	04	04
<b>CHOOSE ANY ONE FROM GIVEN OPTIONS</b>				
MA/M.Sc./GEO/2/DSC 5	Tourism Geography	04	00	04
MA/M.Sc./GEO/2/DSC 6	Political Geography			
<b>CHOOSE ANY ONE FROM GIVEN OPTIONS</b>				
	Open Elective Course	04	00	04
	Open Elective Course			
<b>CREDITS</b>		<b>20</b>	<b>04</b>	<b>24</b>
<b>Semester-3<sup>rd</sup></b>				
MA/M.Sc./GEO/3/CC9	Hydrology	04	00	04
MA/M.Sc./GEO/3/CC10	Geography and Ecosystems	04	00	04
MA/M.Sc./GEO/3/CC11	Introduction to Remote Sensing (Theory)	04	00	04
MA/M.Sc./GEO/3/CC12	Population Geography	04	00	04
<b>CHOOSE ANY TWO FROM GIVEN OPTIONS</b>				
MA/M.Sc./GEO/3/DSC 7	Geography and Disaster Management	08	00	08
MA/M.Sc./GEO/3/DSC 8	Fluvial Geomorphology			
MA/M.Sc./GEO/3/DSC 9	Natural Resource Management			
MA/M.Sc./GEO/3/SEC 3	Introduction to Remote Sensing (Practical)	00	04	04
	Open Elective Course	04	00	04
<b>CREDITS</b>		<b>28</b>	<b>04</b>	<b>32</b>
<b>Semester-4<sup>th</sup></b>				
MA/M.Sc./GEO/4/CC13	Geographical Thought	04	00	04
MA/M.Sc./GEO/4/CC14	Research Methodology	04	00	04






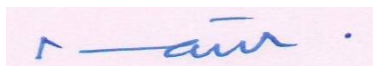
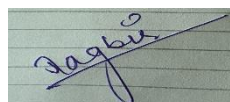
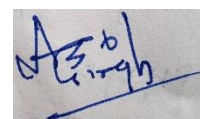




MA/M.Sc./GEO/4/CC15	Fundamental Of Geographical Information Systems (Theory)	04	00	04
MA/M.Sc./GEO/4/CC16	Cardinal Principles Of Academic Integrity	02	00	02
<b>CHOOSE ANY TWO FROM GIVEN OPTIONS</b>				
MA/M.Sc./GEO/4/DSC 10	Aeolian Geomorphology	08	00	08
MA/M.Sc./GEO/4/DSC 11	Geography of Water Resources			
MA/M.Sc./GEO/4/DSC 12	Soil Geography			
MA/M.Sc./GEO/4/SEC 4	Fundamental of Geographical Information Systems (Practical)	00	04	04
<b>CREDITS</b>		<b>22</b>	<b>04</b>	<b>26</b>
<b>Total credits</b>		<b>94</b>	<b>16</b>	<b>110</b>

**Note:**

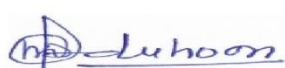
- 1.08 credits are to be obtained from open elective courses.
- 2.MOOC coordinator will display the list of MOOC for each Discipline Specific Elective Course before the commencement of each semester.
- 3.It is not compulsory for a student to study both Part-I & II of an elective course.
- 4.A Discipline Specific Elective Course will be started only when at least 10 students opt for a particular course.

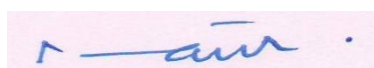





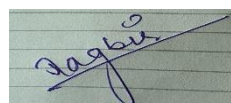


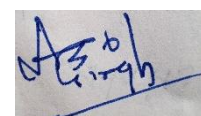
**Table 4**  
**Core Courses offered by the Department**

<b>Semester-1<sup>st</sup></b>				
<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>		
		<b>Theory</b>	<b>Practical</b>	<b>Total</b>
MA/M.Sc./GEO/1/CC1	Climatology	04	00	04
MA/M.Sc./GEO/1/CC2	Geography Of India	04	00	04
MA/M.Sc./GEO/1/CC3	Economic Geography	04	00	04
MA/M.Sc./GEO/1/CC4	Statistical Methods in Geography	04	00	04
<b>TOTAL CREDITS</b>		<b>08</b>	<b>08</b>	<b>16</b>
<b>Semester-2<sup>nd</sup></b>				
MA/M.Sc./GEO/2/CC5	Geomorphology	04	00	04
MA/M.Sc./GEO/2/CC6	Regional Planning in India	04	00	04
MA/M.Sc./GEO/2/CC7	Oceanography	04	00	04
MA/M.Sc./GEO/2/CC8	Morphometric Analysis (Practical)	00	04	04
<b>TOTALCREDITS</b>		<b>08</b>	<b>08</b>	<b>16</b>
<b>Semester-3<sup>rd</sup></b>				
MA/M.Sc./GEO/3/CC9	Hydrology	04	00	04
MA/M.Sc./GEO/3/CC10	Geography and Ecosystems	04	00	04
MA/M.Sc./GEO/3/CC11	Introduction to Remote Sensing (Theory)	04	00	04
MA/M.Sc./GEO/3/CC12	Population Geography	04	00	04
<b>TOTALCREDITS</b>		<b>12</b>	<b>04</b>	<b>16</b>
<b>Semester-4<sup>th</sup></b>				
MA/M.Sc./GEO/4/CC13	Geographical Thought	04	00	04
MA/M.Sc./GEO/4/CC14	Research Methodology	04	00	04
MA/M.Sc./GEO/4/CC15	Fundamental Of Geographical Information Systems (Theory)	04	00	04
MA/M.Sc./GEO/4/CC16	Cardinal Principles Of Academic Integrity	02	00	02
<b>TOTALCREDITS</b>		<b>10</b>	<b>04</b>	<b>14</b>









**Table 5**  
**Discipline Specific Courses offered by the Department**

Course Code	Course Title	Credits		
		Theory	Practical	Total
<b>CHOOSE ANY TWO FROM GIVEN OPTIONS</b>				
MA/M.Sc./GEO/1/DSC 1	Geography of Rural Settlements	08	00	08
MA/M.Sc./GEO/1/DSC 2	Agricultural Geography with Special Reference to India			
MA/M.Sc./GEO/1/DSC 3	Urban Geography			
MA/M.Sc./GEO/1/DSC 4	MOOC & SWAYAM Programme			
<b>CHOOSE ANY ONE FROM GIVEN OPTIONS</b>				
MA/M.Sc./GEO/2/DSC 5	Tourism Geography	04	00	04
MA/M.Sc./GEO/2/DSC 6	Political Geography			
<b>CHOOSE ANY TWO FROM GIVEN OPTIONS</b>				
MA/M.Sc./GEO/3/DSC 7	Geography and Disaster Management	08	00	08
MA/M.Sc./GEO/3/DSC 8	Fluvial Geomorphology			
MA/M.Sc./GEO/3/DSC 9	Natural Resource Management			
<b>CHOOSE ANY TWO FROM GIVEN OPTIONS</b>				
MA/M.Sc./GEO/4/DSC 10	Aeolian Geomorphology	08	00	08
MA/M.Sc./GEO/4/DSC 11	Geography of Water Resources			
MA/M.Sc./GEO/4/DSC 12	Soil Geography			

**Table 6**  
**Skill Enhancement Courses offered by the Department**

Course Code	Course Title	Credits		
		Theory	Practical	Total
<b>1<sup>st</sup> Semester (CHOOSE ANY ONE FROM GIVEN OPTIONS)</b>				
MA/M.Sc./GEO/1/SEC 1	Cartographic Methods in Geography (Practical)	00	04	04
MA/M.Sc./GEO/1/SEC 2	Computer Aided Statistical Diagrams and Graphs (Practical)			
<b>3<sup>rd</sup> Semester</b>				
MA/M.Sc./GEO/3/SEC 3	Introduction to Remote Sensing (Practical)	00	04	04
<b>4<sup>th</sup> Semester</b>				
MA/M.Sc./GEO/4/SEC 4	Fundamental of Geographical Information Systems (Practical)	00	04	04

**Table 7**  
**Open Elective Courses offered by the Department**

Course Code	Course Title	Credits		
		Theory	Practical	Total
<b>Even Semester</b>				
<b>CHOOSE ANY ONE FROM GIVEN OPTIONS</b>				
MA/M.Sc./GEO/9/OEC 1	General Geography of India	04	0	04
MA/M.Sc./GEO/9/OEC 2	Climate Change and Disaster Management			
<b>Odd Semester</b>				
MA/M.Sc./GEO/E9/OEC 3	General Geography of World	04	0	04

