

**A. Performa for Inviting Expression of Interest for Developing MOOCs**

|     |   |   |  |                    |
|-----|---|---|--|--------------------|
| 1.  | Title of the MOOC   | : | Regional Planning and Development  |                    |
| 2.  | Knowledge Stream  | : | <input type="text" value="Social Science and planners"/>   | Refer Annexure-I   |
|     | Subject   | : | <input type="text" value="Geography"/>   | Refer Annexure-II  |
|     | Degree programme  | : | <input type="text" value="Certificate Course"/>  | Refer Annexure-III |
|     | Credit/Non Credit Course  | : | Yes <input checked="" type="checkbox"/> / No <input type="checkbox"/>  |                    |
| 3.  | Details of the Course Coordinator   | : |  |                    |
| 3.1 | Name  | : |  |                    |
| 3.2 | Designation   | : |  |                    |
| 3.3 | Contact Detail  | : | <i>Mobile No.-</i><br><i>Alternative mobile number if any- _____</i><br><i>Landline No.- _____ (STD) _____</i><br><i>Email ID:- _____</i>  |                    |
| 3.4 | Experience in years   | : | 12 years   |                    |
| 3.5 | Nature of Employment  | : | Permanent <input checked="" type="checkbox"/> / Temporary <input type="checkbox"/> / Retired <input type="checkbox"/> /<br>Professional <input type="checkbox"/> / Any other <input type="text"/>  |                    |
| 3.6 | Affiliating Institution   | : | <i>Name of Institution: University of Delhi</i><br><i>Address-1 :</i><br><i>Address-2 : _University of Delhi_____</i><br><i>City: Delhi State: Delhi</i><br><i>PIN: 110007</i><br><i>Phone</i><br><i>Email ID:</i>   |                    |
| 3.7 | NAAC Rating of institute  | : | _____ (Numeric only)   |                    |
| 4.  | Host Institute offering the course  | : | <i>Name of Institution: Institute of Life Long Learning( ILL),</i><br><i>University of Delhi</i><br><i>Address-1 :University of Delhi</i><br><i>Address-2 : _____</i><br><i>City: Delhi State: Delhi</i><br><i>PIN: 110007</i><br><i>Phone: 011-27667099</i><br><i>Email ID: director@illl.du.ac.in, illlearning@gmail.com</i> |                    |
| 5.  | Is facility for MOOC production/editing etc. available  | : | Yes <input checked="" type="checkbox"/> / No <input type="checkbox"/>  |                    |
|     | If 'NO' Which of the Educational Multimedia Research center you would have easy access for production   | : | <input type="text"/>   | Refer Annexure-IV  |
| 6.  | <i>I agree to provide the Host Institute's consent letter before the release of funds(will be released as per MHRD guidelines and terms &amp; conditions issued by CEC)</i> | : | Yes <input checked="" type="checkbox"/> / No <input type="checkbox"/>  | Refer Annexure-V   |
| 7.  | Final proposal attached   | : | Yes <input checked="" type="checkbox"/> / No <input type="checkbox"/>  |                    |

The Course Coordinator may kindly ascertain before uploading the form that they have a Host University/ institute as per the MOOC guidelines from MHRD.

The acceptance of the course shall be in accordance to the MHRD/ UGC /CEC guidelines in force

## B. Detailed MOOC Development Plan

| S. NO. | DELIVERABLE  | DESCRIPTION   | REMARKS                               |
|--------|--|---|---------------------------------------|
| 1.0    | Course Title   | Regional Planning and Development   | As per the paper in the CBCS syllabus |
| 2.0    | Subject  | Discipline: Geography   |                                       |
| 3.0    | Course category  | Certificate course  | Undergraduate                         |
| 4.0    | Course description   | <p>Regional planning is an inter-disciplinary subject having interface with many subjects such as geography, planning and rural development and management that are widely taught at various universities and institutes across the country.</p> <p>The unique feature of this course is that it binds the approaches of all these varied variety of subjects and provides a holistic view to the understanding of bottlenecks, complexities involved in regional planning</p> <p>The topics to be covered in the course are:</p> <ol style="list-style-type: none"> <li>1. Definition of Region, Evolution and Types of Regional planning: Formal, Functional, and Planning Regions and Regional Planning; Need for Regional Planning; Types of regional Planning.</li> <li>2. Choice of a Region for Planning: Characteristics of an Ideal Planning Region; Delineation of Planning Region; Regionalization of India for Planning (Agro Ecological Zones)</li> <li>3. Theories and Models for Regional Planning: Growth Pole Model of Perroux; Growth Centre Model in Indian Context; Myrdal, Hirschman, Rostow and Friedmann; Village Cluster</li> <li>4. Changing Concept of Development, Concept of underdevelopment; Efficiency-Equity Debate</li> <li>5. Measuring development: Indicators (Economic, Social and Environmental); Human development</li> </ol> <p>The course will follow the <i>four quadrant approach</i> using teaching by the means of lecture, discussion, videos and assignments/quiz. The paper gives basics of region, regional planning, models and theories, planning regions and indicators of development. The course is highly useful in the present times as 'smart city' planning is the focus in India. Keeping in mind the increasing unsustainable growth of cities, it is necessary to plan for inclusive, green and healthy cities. Using case studies, the course will highlight these major concerns for planning and development.</p> |                                       |
|        | specify the universities/institute name, where this course is being taught | Various courses planning and development are taught at many universities and institutes and hence the course is <i>open to all</i> .  |                                       |
| 4.1    | Course Duration (in Weeks)   | A 1 to 4 credit SWAYAM course is expected to be covered in 4-12 weeks' duration including the assessment component in which (it should be 40 hours (for 3 credit course) to 90 hours (for a 6 credit course) for the full course) of learning from e-Content, reading reference material, discussion forum posting and assignment.  | 40 hours, 12 weeks                    |
| 4.2    | Start Date   | Tentative   |                                       |
| 4.3    | Course Credits   | 3 credits   |                                       |

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| 4.4 | <b>Weekly Study Plan</b>                                   | <p>The first two weeks will be devoted on building a strong foundation for the concepts of region, regional planning and related concepts followed by evolution of region, types of regions, need, scope and types of regional planning in the next two weeks.</p> <p>The fifth week will focus on characteristics of ideal planning region, smart cities and planning with case studies.</p> <p>Subsequent two weeks will stress on delineation of planning regions and regionalisation in India as followed by eminent scholars.</p> <p>The next two weeks, that is, eighth and ninth week will have detailed discussion on theories and models for regional planning. International and Indian models will be discussed in a nutshell.</p> <p>Finally, changing concepts of development, the Efficiency-Equity Debate and methods of measuring development will be discussed in tenth and eleventh weeks.</p> <p>The last week will be devoted to indicators of development, human development index and other significant indices of development.</p> <p>By the end of each week, there will be assignment/quiz/discussion, as per need.</p> |  |   |  |  |
|     | <b>Rationale for developing this Course</b>                | <p>The course is planned for multi-disciplinary set of students to facilitate a holistic view of planning any region, be in agricultural, economic, metropolitan, industrial or smart city. It aims to get overall knowledge on government programs aimed at regional development in India along with rough understanding of bottlenecks, complexities involved in regional planning.</p> <p>The course will facilitate economists, geographers, planners, demographers and scholars of other disciplines to better understand the process of planning and development in India.</p>   |  |   |  |  |
| 5.0 | <b>Course Objectives</b>                                   | <p>On completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Develop keen interest in the socio and economic development strategies and importance of regional development.</li> <li>• Identify the need and significance of regional planning in India</li> <li>• Develop a holistic view for planning, regional planning and development</li> <li>• Critically and independently assess the issues pertaining to sustainable regional planning in fragile ecosystems</li> </ul>  |  |   |  |  |
| 5.1 | <b>Course introductory video</b>                           | Introductory video- 3-5 minute duration, to be created for the course highlighting its objectives, learning outcomes, brief structure, engagement time etc. the video/ slide show should be appealing and informative for students   | Video link will be provided            |   |  |  |
| 5.2 | <b>Pre -requisites</b>                                     | Graduates  |  |   |  |  |
| 6.0 | <b>Host Institution</b>                                    | <b>Institute of Lifelong learning (ILL), University of Delhi</b>   |  |   |  |  |
| 7.0 | <b>Faculty profile</b>                                     |  |  |   | To demonstrate credibility and assert expertise. A brief biography , career highlights , affiliations etc. not to exceed 100 words and Details of Years of experience: |  |
| 7.1 | <b>Brief about the Course developer (PI/SME) and Team:</b> | <b>S. No.</b>  | <b>Name &amp; (designation )</b>       | <b>Department, Institute</b>  | <b>e-mail</b>  | <p>Working as Assistant Professor and teaching Remote Sensing and GIS, Sustainable Mountain Tourism and Regional Development in India for more than 10 years. I was also Nodal</p> |
|     |  | 1  | Dr. Pankaj Kumar (Assistant Professor) | Department of Geography, Delhi School of Economics, University of Delhi | pankajdsedu@gmail.com  |  |

|     |   |  |  |   |   |  |
|-----|---|--|--|---|---|--|
|     |   |  |  |   |   | Officer of ARPIT, SWAYAM programme for Geography Teachers assigned to the Department of Geography, Delhi School of Economics. I contributed immensely as member of Undergraduate Course Revision Committee 2019 (LOCF based CBCS Curriculum) of University of Delhi. Presently I am Secretary of International Geographical Union (IGU) commission on Biogeography and Biodiversity.   |
| 7.2 | <b>Brief about Course Instructor and Team:</b>  | <b>S. No.</b>  | <b>Name &amp; (designation)</b>          | <b>Department, Institute</b>                              | <b>e-mail and Phone</b>   | To demonstrate credibility and assert expertise. A brief biography, career highlights, affiliations etc. not to exceed 100 words and Details of Years of experience:<br><br>I am working as Assistant Professor since last 9 years of which I have taught post graduate students for 2 years. My specialisation is Geography of tourism, geography of health and wellbeing and cartography and remote sensing. I have been co-ordinator for MOOC courses at the department of geography, CUTN. I am a member of committee for curriculum based on CBCS guidelines.<br>I have published research papers in peer reviewed journals like 'Energies' having impact factor of 2.6. Recently my book (co-authored) titled 'Urban health and wellbeing' is published by Springer. |
|     |   | 1  | Dr. Aakriti Grover (Assistant Professor) | Department of Geography, Central University of Tamil Nadu | aakriti.cutn@gmail.com  |  |
|     |   |  |  |   |   |  |
|     | <b>Total Number of Modules</b>  | 30   |  |   |   |  |
|     | <b>I- Quadrant Engagement time (Video)</b>  | Total video hours of the MOOCs with Video of 25~30 minutes per module  |  |   | Total video hours of the MOOCs: 16 Hours, that is, 30 modules.          |  |
|     | <b>II- Quadrant Engagement time (Text material, e-book, objectives, summary, glossary, case studies, FAQs, Other Learning material)</b> | Total engagement time for 2 <sup>nd</sup> quadrant elements for all the modules of the MOOC; Total text material to be 15- 20 pages long per module– 12 font Arial, single space.<br>Counting 3 minutes/page the learning engagement time to be in the range of 45- 60 minutes per module. |  |   | 30 test documents of 15-20 pages with 3 minutes per page learning time. |  |
|     | <b>III- Quadrant (References, Web links)</b>  | Please provide the reference list as a word document   |  |   |   |  |

|             |   |   |  |
|-------------|---|---|--|
|             | <b>IV – Quadrant Engagement Time</b><br>Assessment          | Total engagement time for in-course assessment.<br><br>Assessment to include:<br>1.Quizzes- self graded<br>2.Assignments- 3 short (up to 200 words) and 2 long answer (up to 500 words) depending on the course requirements<br><br>10-15 MCQ per module comprise of Quiz.<br>Engagement time is 1 minute per MCQ for Quiz<br><br>Engagement time for Assignment questions should be 5 minutes per short question and 10 minutes per long question. Total engagement time should be in range 45-50 minutes per module | As per rules, approx 28-30 hours   |
| <b>8.0</b>  | <b>Term End assessment</b>                                  | Proctored exam, with question paper sets to be provided by course faculty.  | Yes, 3 hours   |
| <b>9.0</b>  | <b>Total Engagement time for Discussion and interaction</b> | The interaction can be through video tutorial or forum moderations and participation.<br>Faculty to encourage discussion. May assign marks for participation and forum interaction.<br>Discussion related to subject matter<br><br>Engagement in interaction and discussion is to be factored with grades. <b>Suggested:</b> a) After every 2-3 module give 1 hours of interaction.<br>b) List some topics and questions for discussion in the forum.   | Regular discussions shall be conducted as per requirement. Approximately 10 hours of discussion will be undertaken on issues related to problems and prospects of tourism in India, influence of climate change and disasters on tourism industry, management and sustainable tourism. |
| <b>9.2</b>  | <b>Total Engagement time(hours)</b>                         | 7.1+7.2+7.4+8+9.0<br><br>Total engagement time to amount to 2-3 hours per module  | 16+90+30+3+10=149 hours  |
| <b>10.0</b> | <b>Assessment Plan</b>                                      | Specify requirements for successful course completion Assessment plan – the weight age assigned for different elements of the MOOCs<br><br>To be provided by the offering faculty/instructor. Refer UGC guidelines: Instructional Template for Facilitating Implementation of Choice Based Credit System (CBCS)   | As per UGC, CBCS rules.  |
| <b>11.0</b> | <b>Grading scheme</b>                                       | For conversion into CGPA and credit scheme for each program refer to<br><br>UGC guidelines: Instructional Template for Facilitating Implementation of Choice Based Credit System (CBCS)   | As per UGC, CBCS rules   |

**Four-quadrant for MOOCS course**

| <b>Name of Quadrant</b>   | <b>Contents</b>   | <b>File formats /Descriptions</b>   |
|---|---|---|
| <b>1<sup>st</sup> Quadrant e-Tutorial:</b>                          | Video and Audio Content in an organized form, including Animation, Simulations, Virtual Labs.   | <b>Video programme files</b><br>1. (Video lectures not exceeding 25-30 minute including the elements of graphics and animation.) please specify Video lecture durations in modules<br><br>2. The video shall be –HD (aspect ratio 16:9) resolution 1920 x 1080 video,<br><br>3. Compression @500 kbps – 1 mbps with pixel resolution of 480x360 or better files on MPEG4 format.<br><br>The font size for the PPT accompanying the lectures :<br>Heading: 24-30; Sub-heading: 22-26; Body: 20-24; |
| <b>2<sup>nd</sup> Quadrant TextContent:</b>                         | PDF/e-Books/ illustration, video demonstrations, documents and Interactive simulations wherever required.<br>Related Links, Open Content on Internet, Case Studies, Anecdotal information, Historical development of the subject, Articles. | <b>E-Book, Objectives, summery, Glossary, Case Study, tutorial, FAQ’s, transcription of video lectures. Any Other Study Material- Etc.</b><br><br>WORD FILE / PDF<br><br>All text in 15- 20 pages<br>12 font Arial, single space<br>Text files including all the 2 <sup>nd</sup> quadrant elements shall be around 2000 - 3000 words for 45-60 minutes of learning engagement time per module   |
| <b>3rd Quadrant Assessment:</b>                                     | MCQ,Problems,Quizzes, Assignmentsandsolutions,and settinguptheFAQ, Clarificationsongeneral misconceptions. Interaction and discussionforum topics   | WORD FILE /PDF<br><br>Assessment to include:<br>1.Quizzes- self graded 10 questions per module<br>2.Assignments- 3 short (up to 200 words) and 2 long answer (up to 500 words) depending on the course requirements   |
| <b>4<sup>th</sup> Quadrant DiscussionForum andLive Interaction:</b> | <b>Final Assessment Paper – Question Bank (Subjective Or Objective)</b>   | Live interaction and moderation of forum questions and topics<br>WORD FILE /PDF<br><br>Two sets of Question Paper to be provided by the Course Faculty PI/SME   |

**Detailed Course Structure**  
**Course Title: Regional Planning and Development**  
**(Level & Subject) Syllabus (based on Choice Based System)**

| Week        | Day   | Items | Title of Video and Reading text/Lecture/ppt   | Remark                |
|-------------|-------|-------|---|-----------------------|
| First Week  | Day 1 |       | Definition of Region, planning and Regional Planning  | MS word/<br>PDF/video |
|             | Day 2 |       | Nature and scope of Regional Planning and development   |                       |
|             | Day 3 |       | Need of regional planning in India  |                       |
|             | Day 4 |       | Types of Regional planning: Formal, Functional and Adhoc Region   |                       |
|             | Day 5 |       | Exercises   |                       |
| Second Week | Day 1 |       | Planning Regions  |                       |
|             | Day 2 |       | Delineation of Planning Regions   |                       |
|             | Day 3 |       | Types of Planning Regions   |                       |
|             | Day 4 |       | Characteristics of an ideal Planning Region   |                       |
|             | Day 5 |       | Exercises   |                       |
| Third Week  | Day 1 |       | Regional Planning and development in India  |                       |
|             | Day2  |       | Policies and Approaches for Regional Development in India   |                       |
|             | Day 3 |       | Area Development programs   |                       |
|             | Day 4 |       | Green revolution  |                       |
|             | Day 5 |       | Exercises   |                       |
| Fourth Week | Day1  |       | Case study- DVC, Indira Gandhi Canal Project  |                       |
|             | Day 2 |       | Regionalization of India for Planning regions e.g. Agro-ecological zones and Special economic zones           |                       |
|             | Day 3 |       | Role of Institutions of Planning Era  |                       |
|             | Day 4 |       | Niti Ayog and its role in regional planning   |                       |
|             | Day 5 |       | Exercises   |                       |
| Fifth Week  | Day 1 |       | PPP model of regional planning  |                       |
|             | Day 2 |       | Center-State relations and regional planning  |                       |
|             | Day 3 |       | Gandhian philosophy of regional development   |                       |
|             | Day 4 |       | Role of Panchayati raj institutions in regional development   |                       |
|             | Day 5 |       | Exercises   |                       |
| Sixth Week  | Day 1 |       | Theories and Models of regional planning, Growth pole model of Perroux, Growth centre model in Indian context |                       |
|             | Day 2 |       | Theories of Myrdal and Hirschman  |                       |
|             | Day 3 |       | Theories of Friedman and Boudeville   |                       |
|             | Day 4 |       | Rostows model of Stages of economic growth  |                       |
|             | Day 5 |       | Exercises   |                       |
| SeventhWeek | Day 1 |       | Concept and Changing perspectives of regional development   |                       |
|             | Day 2 |       | Economic growth perspective, Human development perspective  |                       |
|             | Day 3 |       | Social development perspective and Sustainable growth perspective   |                       |
|             | Day 4 |       | Concept of Developed, Developing and Underdeveloped regions   |                       |
|             | Day 5 |       | Exercises   |                       |
| Eighth Week | Day 1 |       | Efficiency-Equity Debate  |                       |
|             | Day2  |       | Measuring regional development  |                       |
|             | Day 3 |       | Economic indicators   |                       |
|             | Day 4 |       | Social indicators   |                       |
|             | Day 5 |       | Exercises   |                       |
| Ninth Week  | Day1  |       | Environmental indicators  |                       |

|               |       |   |  |
|---------------|-------|---|--|
|               | Day 2 | Multi-criteria model for measuring regional development e.g. HDI      |  |
|               | Day 3 | Issues in measurement of regional development                         |  |
|               | Day 4 |   |  |
|               | Day 5 | Exercises   |  |
| Tenth Week    | Day 1 | Disparity in regional development                                     |  |
|               | Day 2 | Causes – Geographical, Historical, Cultural etc                       |  |
|               | Day 3 | Concept of resource curse – a case study of Jharkhand state           |  |
|               | Day 4 | Need of Balanced regional development                                 |  |
|               | Day 5 | Exercises   |  |
| Eleventh Week | Day 1 | Governments intervention in reducing regional disparity               |  |
|               | Day 2 | Globalisation and regional development                                |  |
|               | Day 3 | Role of international institutions in regional development            |  |
|               | Day 4 | Globalisation Vs Regionalism debate                                   |  |
|               | Day 5 | Exercises   |  |
| Twelvth Week  | Day 1 | Changing pattern of regional development and planning in India        |  |
|               | Day 2 | Increasing role of Migration for regional development in India        |  |
|               | Day 3 | Future challenges for regional development and planning               |  |
|               | Day 4 | Technological advancement and its role in future regional development |  |
|               | Day 5 | Exercises   |  |