

**INDIRA GANDHI NATIONAL OPEN UNIVERSITY**  
**School of Sciences**

**IG/SOS/2022/.....**  
**28<sup>th</sup> December 2022**

**Subject: Regarding Academic Programme Launch Notification No. 83 of Post Graduate Diploma in Geoinformatics (PGDGI) programme**

This is with reference to the Academic Programme Launch Notification No. 83 and the Intimation Proforma dated 25<sup>th</sup> November 2021 of Post Graduate Diploma in Geoinformatics (PGDGI) programme sent earlier by the School.

The PGDGI programme may kindly be activated at the existing Post Graduate Certificate in Geoinformatics (PGCGI) study centres. Further, as per the Academic Council's directions more centres may be activated. Relevant details regarding activation and Academic Counsellors are enclosed.

Submitted please.

2/57/1934  
2/1/23

इ.ग.रा.मु.वि. / IGNOU
क्षेत्र.प्र. / RSD
फाइल नं. / Receipt No. 1908
दिनांक / Date 31/1/23
प्रमाणित / Certified

Director, SOS

28/12/2022  
(Benidhar Deshmukh)  
Programme Coordinator and  
DGC (I/c) - Geology  
प्रो. बेनीधर देशमुख / Prof. Benidhar Deshmukh  
आचार्य भूविज्ञान / Professor of Geology  
विज्ञान विद्यापीठ / School of Sciences  
इ.ग.रा.मु.वि., मैदान गढ़ी, नई दिल्ली-110068  
IGNOU, Maidan Garhi, New Delhi-110068

INDIRA GANDHI NATIONAL OPEN UNIVERSITY  
School of Sciences

IG/SOS/2021/.....  
Date: 25<sup>th</sup> November, 2021

Sub: Regarding request for intimation proforma from Director, RSD for preparing the Programme Development Form (PDF) of PG Diploma in Geoinformatics

This is to bring to your kind notice that the Discipline of Geology, School of Sciences is in the process of getting approvals from different divisions of IGNOU for preparing Programme Development Form (PDF) of Postgraduate Diploma in Geoinformatics.

In this regard, it is requested to acquire the intimation proforma from the Director, RSD in given format of PDF (Appendix-D) is attached herewith as Annexure- 1.

The programme proposal form (PPF) was approved in 67<sup>th</sup> School Board of School of Sciences held on 22<sup>nd</sup> July 2021 (Annexure-2) and 61<sup>st</sup> APC held on 20<sup>th</sup> September 2021 (Annexure-3).

Submitted for kind consideration and necessary action please.

*Meenal Mishra*  
(Meenal Mishra)  
Programme Coordinator

प्रो. मीनल मिश्रा / Prof. Meenal Mishra  
अध्यक्ष भूविज्ञान / Professor in Geology  
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Director, SOS

*Sujathi*  
25-11-21  
प्रो. सुजाता वर्मा / Prof. Sujatha Varma  
निदेशक / Director  
विज्ञान विद्यापीठ / School of Sciences  
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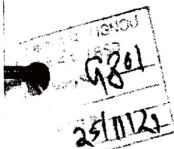
Director, RSD

*[Signature]*  
25/11/21

*Adl. Dir* - The Programme Intimation Proforma in the A/c above is placed at Annexure-1 for perusal & signature please & may then be forwarded to Director-SOS.  
*[Signature]*  
30/11/21

*Director RSD* - *[Signature]*  
30/11/21  
Director  
Regional Services Division  
Indira Gandhi National Open University  
New Delhi-110068

*Sujathi*  
Prof. Meenal Mishra



**INTIMATION PROFORMA FOR REGIONAL SERVICES DIVISION**

1. Programme Title: Post Graduate Diploma in Geoinformatics
2. Mode of Delivery: ODL
3. Programme Code: PGDGI(proposed)
4. Name of the School proposing the programme: School of Sciences
5. Proposed launch cycle and year: January 2023
6. Name of Programme Coordinator; her/his contact number & e-mail:  
Prof. Benidhar Deshmukh, 9953450070, bdeshmukh@ignou.ac.in  
Prof. Meenal Mishra, 9953984268, meenalmishra@ignou.ac.in
7. Location of Learner Support Centres (LSC): **Request for starting with already existing 11 Study centres activated for PGCGI programme** as per list mentioned below:

S. No.	Location of RCs	No. of LSCs	No. of Centres for Practicals
1.	Pune (Maharashtra)	16136P	1 (one)
2.	Srinagar (Kashmir)	1209	1 (one)
3.	Raipur (Chhattisgarh)	1503	1 (one)
4.	Delhi	07162P	1 (one)
5.	Trivandrum (Kerala)	40030P	1 (one)
6.	Dehradun (Uttarakhand)	31017	1 (one)
7.	Bhubaneswar (Odisha)	2100	1 (one)
8.	Bhopal (M.P.)	1501	1 (one)
9.	Portblair (A&N)	0201	1 (one)
10.	Nagpur (Maharashtra)	36059P	1 (one)
11.	Karnal, Hisar (Haryana)	1009	1 (one)

**8. Qualification of the Academic Counsellors:**

- a. Masters in 'Remote Sensing & GIS'/ Geomatics/ Geoinformatics/ Geospatial Technology/ Computer Science/ Information Technology/ Agriculture/ Botany/ Environmental Science or Studies/ Forestry/ Geography/ Geology/Life Sciences/Mathematics/ Natural Resources Management / Physics / Soil Science/ Statistics /or allied disciplines with minimum of 5 years research and/or teaching experience in Geoinformatics;

or



- b. Ph.D. (in the fields mentioned above at point a.) or NET-JRF with minimum of 2 years research and/or teaching experience in Geoinformatics;  
or  
c. Graduation in Engineering/Planning/Architecture with minimum of 5 years research and/or teaching experience in Geoinformatics.

Note: Programming experience is mandatory for programming related course(s).

9. Specific special infrastructure required at LSC : Computers for counselling of laboratory courses

10. Proposed date for completion of following activities:

Items	Proposed date
Identification of the Academic Counsellors	Academic counsellors identified for PGCGI programme will be involved
Identification of LSCs	As mentioned in item No. 7
Identification of Centres for Practicals	As mentioned in item No. 7

11. Infrastructure required for Online Support/ MOOCs - NA

12. Any other comments:



(Prof. Benidhar Deshmukh)

प्रो. बेनीधर देशमुख / Prof. Benidhar Deshmukh

आचार्य भूविज्ञान / Professor of Geoinformatics

विज्ञान विद्यापीठ / School of Sciences

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(Prof. Meenal Mishra)

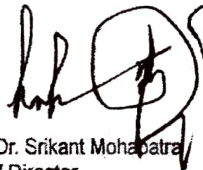
प्रो. मीनल मिश्रा / Prof. Meenal Mishra

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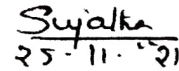
डॉ. श्रीकान्त मोहापात्रा / Dr. Srikant Mohapatra

निदेशक / Director

क्षेत्रीय सेवा प्रभाग / Regional Services Division

इ.गॉ.रा.मु.वि., मैदान गढ़ी, नई दिल्ली-110068

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Signature of Director of the School

प्रो. सुजाता वर्मा / Prof. Sujatha Varma

निदेशक / Director

विज्ञान विद्यापीठ / School of Sciences

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## **Requirements for the Study Centers for IGNOU's Post Graduate Diploma in Geoinformatics (PGDGI) Programme**

School of Sciences, IGNOU would like to have LSCs for its recently launched Post Graduate Diploma Programme in Geoinformatics (PGDGI) of one year (two semesters) duration. The existing LSCs for the Post Graduate Certificate Programme in Geoinformatics (PGCGI) may be activated for the PGDGI programme.

Following are the indicative details of the requirements and guidelines for the prospective study centres:

### **A. Infrastructure/ Facilities Requirements at the Study Centre:**

The existing LSCs for the Post Graduate Certificate Programme in Geoinformatics (PGCGI) may be activated for the PGDGI programme. For the new study centre, following minimum infrastructure/ facilities are required:

- I. Qualified Counsellors for conducting theory and practical counselling sessions
- II. Free and open source software: The programme encourages use of free and open source software and data so that learners can practice with the software even beyond the scheduled contact hours at respective Learner Support Centre and apply them in their work. Laboratory course of the first semester is built upon the use of Quantum GIS (QGIS), Google Earth, ISRO Bhuvan, etc. In addition, freely downloadable R package would be required in the second semester.

*Note: The software can be freely downloaded from web.*

#### **III. System specification/ Hardware:**

- i) Desktop computers with specifications as required for successful installation and running of the above mentioned software i.e. QGIS and R.
- ii) Equipments related to aerial photo interpretation i.e. stereoscope, etc.
- iii) Global Navigation Satellite System handsets. Alternatively, some freely available mobile app may be used.

#### **IV. Sample Datasets:**

- i) Aerial photographs and Satellite remote sensing data freely downloadable from web
- ii) Topographical maps (covering the same area as in the satellite images/ aerial photographs)

- V. Internet connection for selected lab sessions. Alternatively, the data and software to be used in the session may be stored in the computer prior to the sessions.

### **B. Required Qualification and Experience for Counsellors to Conduct Theory and Tutor Guided Practical Counselling Sessions and for Programme in-charge:**

The existing Academic Counsellors for the Post Graduate Certificate Programme in Geoinformatics (PGCGI) may be involved for the PGDGI programme.

For the new study centre, the person entrusted with the task of theory counseling should be a qualified Geoinformatics professional. The professionals interested to act as counsellors should fulfill following eligibility conditions:



- a. Masters in 'Remote Sensing & GIS'/ Geomatics/ Geoinformatics/ Geospatial Technology/ Computer Science/ Information Technology/ Agriculture/ Botany/ Environmental Science or Studies/ Forestry/ Geography/ Geology/ Life Sciences/ Mathematics/ Natural Resources Management / Physics / Soil Science/ Statistics /or allied disciplines **with** minimum of 5 years' research and/or teaching experience in Geoinformatics;

OR

- b. Ph.D. (in the fields mentioned above at point a.) or NET-JRF with minimum of 2 years' research and/or teaching experience in Geoinformatics;

OR

- c. Graduation in Engineering/ Planning/ Architecture with minimum of 5 years' research and/or teaching experience in Geoinformatics.

**Note: Programming experience is mandatory for introductory programming related courses (i.e. MGY-005 and MGYL-008).**

### C. Content and Duration of the Theory Counselling:

The counselling may preferably be conducted on weekends/holidays depending upon the availability of lab and counsellors. The number and duration of counselling sessions for the theory courses should be as per University norms.

Details of the courses are as follows:

Course Codes	Title of the Course	Type of Course	Course Credits
<b>Semester-I</b>			
MGY-101	Introduction to Geoinformatics	Theory	6
MGY-102	Remote Sensing and Image Interpretation	Theory	4
MGY-103	Global Navigation Satellite System and Geographic Information System	Theory	4
MGYL-104	Geoinformatics Laboratory	Lab	6
<b>Semester-II</b>			
MGY-005	Techniques in Remote Sensing and Digital Image Processing	Theory	6
MGY-006	Spatial Analysis and Modelling	Theory	4
MGY-007	Applications of Geoinformatics	Theory	4
MGYL-008	Digital Image Processing and Spatial Analysis Laboratory	Lab	6

### D. Content and Duration of Practical Counselling:

Self Learning Materials for the practical courses MGYL-104 and MGYL-008 have been designed in such a way that learners should be able to carry out majority of the exercises on their own. However, there may be some exercises in which learners might require counselling. For the PGDGI programme, practical counselling may be conducted for a maximum of 8 sessions per semester depending on the requirement.

The practical counselling sessions may be conducted either on weekends or at one or two stretches considering the factors such as the availability of counsellors.

facilities at the concerned LSC and also keeping convenience of learners employed. After completion of the scheduled practical, the study centre would be required to conduct a practical examination in coordination with IGNOU on another day.

There should be mandatory attendance of minimum 70% in the scheduled practical counselling sessions for the learners in order to be eligible to appear in the Term End Practical Examination (TEPE), which is generally held in the month of July and January on same date across India.

**E. Payment norms:**

There are defined payment norms of IGNOU for study centres which include honorariums to coordinators, theory counsellors, lab usage charges, etc. For the support services, study centres are provided with the payment/ honorarium as appropriate as per the existing relevant norms of IGNOU. For the PGDGI programme, payments/ honorariums for other computer related programmes such as BCA/MCA, wherever relevant may be applicable.