

SYMBIOSIS INTERNATIONAL (Deemed University)

Symbiosis Institute of Geoinformatics, Pune

NAAC 5.1.3- Following Capacity development and skills enhancement initiatives are taken by the institution Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) Awareness of trends in technology

File Name: 5.1.3_SIG_18-19_Capability enhancement.pdf

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IIRS Outreach Programme

The IIRS outreach programme, which started in 2007 with 12 universities/ institutions has now grown substantially. Currently, 776 universities / institutions spread across India covering 29 States and 2 Union Territories are networked with IIRS. The beneficiaries of the programme may include:

- Urban Planning Bodies/ Agencies in India
- Civil Engineers
- Architects and other Planning Professionals
- Central/State/Private Universities & Academic Institutions
- Central & State Government Organisations / Departments
- Research Institutes
- Geospatial Industries
- NGOs

Feedback Mechanism

IIRS has conducted workshops and sessions during IIRS User Interaction Meet to take feedback from participating institutions to improve the quality of future courses.



Participants of sixth outreach programme feedback session during IIRS User Interaction Meet (IUIIM)-2018

Awards

IIRS has received national awards for excellence in training for outreach and e-learning programme during 1st National Symposium on Excellence in Training conducted during April 11-12, 2015 in New Delhi by Department of Personnel & Training (DoPT), Govt. of India in collaboration with United Nations Development Programme (UNDP).



About IIRS

Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organisation (ISRO), Department of Space, Govt. of India is a premier Training and Educational Institute set up for developing trained professionals in the field of Remote Sensing, Geoinformatics and GNSS Technology for Natural Resources, Environmental and Disaster Management. Formerly known as Indian Photo-interpretation Institute (IPI), founded in 1966, the Institute boasts to be the first of its kind in entire South-East Asia. While nurturing its primary endeavour to build capacity among the user community by training mid-career professionals, the Institute has enhanced its capability and evolved many training and education programmes that are tuned to meet the requirements of various target groups, ranging from fresh graduates to policy makers including academia.

IIRS also conducts e-learning programme on Remote Sensing and Geoinformation Science (<http://elearning.iirs.gov.in>). Over 4,500 participants have registered for the e-learning course.

Contact Details

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Thirty-fourth IIRS Outreach Programme



**Atal Mission for Rejuvenation
and Urban Transformation**

**Geospatial Inputs for Enabling
Master Plan Formulation under
AMRUT Sub-scheme**

July 23 - 27, 2018



Dr. (Prof.) T. P. Singh
Director



Organised by

Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space, Govt. of India
Dehradun

www.iirs.gov.in

About the Course

The Indian cities are experiencing rapid growth with share of country's urban population increasing from 27% in 2001 to 32% in 2011. Majority of this growth has taken place in an unplanned and haphazard manner, the ill-effects of which are manifested in the form of poor quality of urban life. In order to ensure a planned development, the Govt. of India has launched the Atal Mission for Rejuvenation and Urban Transformation (AMRUT) Mission which has a sub-scheme on 'Formulation of GIS Based Master Plan for AMRUT cities'. IIRS along with Town and Country Planning Organisation (TCPO), Ministry of Housing and Urban Affairs (MoHUA), GoI has developed the contents of the course for capacity building of personnel involved in the sub-scheme.

We invite you to attend this training program on Geospatial modelling and applications for urban and regional areas. The course is scheduled from July 23-27, 2018. The course will contain five lectures (each of one and half hour duration).

IIRS has successfully conducted 33 such courses so far with 70,108 participants from 774 Institutions/ Universities (as of May 20, 2018) spread across India.

Course Contents

Atal Mission for Rejuvenation and Urban Transformation (AMRUT) scheme

- Programme overview, scope and coverage, deliverables
- Project execution and funding

Overview of Geospatial Technology

- Familiarization with remote sensing data sets
- Identification and interpretation of urban features
- GIS based analysis and modeling
- Map Projections and Mobile Apps

Survey Techniques and Navigation Systems

- Survey techniques
- Navigation systems

Enabling GIS Based Master Plan

- Design & standards for formulation of GIS based Master Plan for AMRUT Cities
 - Maps creation based on AMRUT standards
- Overview of geospatial data collection, usage and data sharing policies in India

Target Participants

The course is designed for Professionals engaged in Urban & Regional Planning, students & researchers of Urban & Regional Planning, Geography, Environmental studies, Civil Engineering, Architecture, etc.

The course participants have to be duly sponsored by their university/ institution and application should be forwarded through coordinators from respective Organisations/ Centres. Users attending programmes under CEC-UGC/ CIET/ other networks can also participate. Institutions on high speed National Knowledge Network (NKN) can also participate using A-VIEW software.

Course Study Material

Course study materials like lecture slides, video recorded lectures, open source software & handouts of demonstrations, etc. will be made available through IIRS ftp link. Video lectures will also be uploaded on YouTube Channel (<http://www.youtube.com/user/edusat2004>).

Course Fee

There is no course fee for attending this programme.

Course Registration

Course updates and other details will be available on URL- <http://www.iirs.gov.in/Edusat-News/>. All the participants has to register online through registration page available on above web page.

Course Funding & Technical Support

The programme is sponsored by National Natural Resources Management System, Indian Space Research Organisation, Department of Space, Government of India and is conducted with due technical support from Amrita Virtual Interactive E-learning World (A-VIEW).

Programme Reception

Programme can be received through Internet connectivity of 2Mbps or better. Following hardware and software set-up is required at user end:

Hardware Requirements :

- High-end Computer/Laptop (Windows OS);
- Good quality web camera;
- Headphone with Microphone;
- Speakers;
- Large Display Screen (Projector or TV) .

Software and Internet Requirements

- Desktop based: A-VIEW software (free to download from www.aview.in or IIRS ftp link: <ftp://ftp.iirs.gov.in>)
- Online live access through <http://elearning.iirs.gov.in> with free registration.

Connectivity & Other configurations:

- NKN or any other high speed internet facility (preferably without firewall, with minimum of 2 Mbps bandwidth)
- Network requirements: Port 80 and RTMP (port 1935) protocol should be unblocked from user's computer and Firewall.
- **Note:** Institutions/ Universities have to bear total expenses for establishment of the classroom facility.

Award of Certificate

- **Working Professionals:** Based on 70% attendance and submission of assignments.
- **Students:** Based on 70% attendance and online examination.

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Dr. Prakash Chauhan
Director

No.: IIRS/GIT&DL/EDUSAT/2018/34
Date: July 04, 2018

विषय: "अमृत उप-योजना के अंतर्गत मास्टर प्लान फॉर्मूलेशन को सक्षम करने के लिए भू-स्थानिक इनपुट" पर 34^{वें} आई^०आई^०आर^०एस^० आउटरीच कार्यक्रम की घोषणा"

Sub: Announcement of 34th IIRS Outreach Program on "Geospatial Inputs for Enabling Master Plan Formulation under AMRUT Sub-scheme" commencing from July 23, 2018.

Dear Sir/ Madam,

पृथ्वी अवलोकन (ई.ओ.) भारतीय अन्तरिक्ष अनुसंधान संस्थान का एक महत्वपूर्ण कार्यक्रम है जिसके अंतर्गत पिछले पचास वर्षों में कई उपग्रहों को अन्तरिक्ष में प्रक्षेपित किया गया है। इन उपग्रहों से प्राप्त आकड़ों का उपयोग प्राकृतिक संसाधन व आपदा प्रबंधन में किया जाता है। भारतीय सुदूर संवेदन संस्थान (भा.सु.सं.सं.) भूस्थानिक प्रौद्योगिकी के अंतर्गत शिक्षण, प्रशिक्षण तथा क्षमता संवर्धन को समर्पित एक महत्वपूर्ण संस्थान है। इस संस्थान द्वारा अब तक 33 उपग्रह एवं इंटरनेट आधारित आउटरीच पाठ्यक्रम संचालित किए जा चुके हैं। इन पाठ्यक्रमों से अबतक 776 भारतीय विश्वविद्यालयों/ संस्थानों के करीब 70100 से अधिक प्रतिभागी लाभान्वित हुए हैं। इस कार्यक्रम को आगे बढ़ाते हुए हम सहर्ष 34^{वें} आई^०आई^०आर^०एस^० आउटरीच कार्यक्रम को प्रारंभ करने की घोषणा करते हैं। 23 जुलाई, 2018 से प्रारम्भ होने वाला यह कार्यक्रम "अमृत उप-योजना के अंतर्गत मास्टर प्लान फॉर्मूलेशन को सक्षम करने के लिए भू-स्थानिक इनपुट" पर आधारित है। यह कार्यक्रम कार्यरत पेशेवरों तथा छात्रों हेतु लक्षित है। यह कार्यक्रम प्रतिभागियों को अपने कार्यस्थल पर रहते हुये ज्ञान को समृद्ध करने का एक अनुूठा अवसर प्रदान करेगा।

The Indian Space Research Organisation (ISRO) has a vibrant Earth Observation (EO) programme since last 50 years with the launch of several satellite missions. The Indian Remote Sensing Satellite (IRS) series of satellites provide space based information for monitoring and management of natural resources and Disaster Management Support. The Indian Institute of Remote Sensing (IIRS) is a premier Institute under ISRO engaged in training, education and capacity building on use of geospatial technology for natural resources monitoring and disaster management since last five decades. The institute has so far conducted 33 Satellite and Internet based Outreach Programmes, benefitting more than 70,100 participants from 776 Indian Universities/ Institutions/User Departments/User Ministries in India. To promote the use of geospatial technology, IIRS announces the 34th IIRS Outreach programme on "Geospatial Inputs for Enabling Master Plan Formulation under AMRUT Sub-scheme" commencing on July 23, 2018. The course is targeted to working professionals and students and will provide a unique opportunity to the learners to enhance their knowledge by attending the course at their respective working places.

भारतीय शहरों का तेजी से विकास हो रहा है तथा शहरी आबादी का हिस्सा 27% (सन् 2001) से बढ़कर 32% (सन् 2011) हो गया है। इस वृद्धि का अधिकांश हिस्सा एक अनियोजित और खतरनाक तरीके से हुआ है, जिसके दुष्प्रभाव शहरी जीवन की खराब गुणवत्ता के रूप में प्रकट हुए हैं। एक योजनाबद्ध विकास सुनिश्चित करने के लिए, भारत सरकार ने "अटल मिशन फॉर रेजुवेनशन एंड अर्बन ट्रांसफॉर्मेशन" (अमृत) योजना प्रारम्भ की है, जिसमें 'अमृत शहरों के लिए जीआईएस आधारित मास्टर प्लान तैयार करने' की उप-योजना है। भारतीय सुदूर संवेदन संस्थान ने टाउन एंड कंट्री प्लानिंग ऑर्गनाइजेशन (टीसीपीओ), आवास और शहरी मामलों के मंत्रालय (एमओएचयूए) के साथ, उप-योजना में शामिल अधिकारियों की क्षमता निर्माण के लिए पाठ्यक्रम सामग्री विकसित की है। इस पाठ्यक्रम में निम्नलिखित विषयों को शामिल किया जाएगा: भू-स्थानिक प्रौद्योगिकी आधारित योजना, सुदूर संवेदन तकनीकी का अवलोकन, भौगोलिक सूचना प्रणाली का मूल, सर्वेक्षण तकनीक और नेविगेशन सिस्टम, अमृत उप-योजना के तहत जीआईएस आधारित मास्टर प्लान के निर्माण को सक्षम करना, भू-स्थानिक प्रौद्योगिकी में उन्नयन, आदि।

The Indian cities are experiencing rapid growth with share of country's urban population increasing from 27% in 2001 to 32% in 2011. Majority of this growth has taken place in an unplanned and haphazard manner, the ill-effects of which are manifested in the form of poor quality of urban life. In order to ensure a planned development, the Govt. of India has launched the "Atal Mission for Rejuvenation and Urban Transformation" (AMRUT) Mission which has a sub-scheme on 'Formulation of GIS Based Master Plan for AMRUT cities'. IIRS along with Town and Country Planning Organisation

(TCPO), Ministry of Housing and Urban Affairs (MoHUA), GoI has developed the contents of the course for capacity building of personnel involved in the sub-scheme. The course will cover topics on: Government Initiatives in Geospatial Technology based Planning, Overview of Remote Sensing, Basics of Geographic Information System, Survey Techniques and Navigation Systems, Enabling the formulation of GIS Based Master Plan under AMRUT Sub-Scheme, Advances in Geospatial Technologies, etc.

अपने कार्यस्थल से प्रतिदिन डेढ़ घंटा समर्पित करके भूस्तरीय प्रौद्योगिक सीखने का यह एक अनोखा अवसर है। इस पाठ्यक्रम में **निशुल्क**: भाग लिया जा सकता है। ए-व्यू सॉफ्टवेयर (www.aview.in) का प्रयोग कर इंटरनेट के जरिए कार्यक्रम स्वतंत्र रूप से उपलब्ध हो सकता है। यह कार्यक्रम एनएनआरएमएस, अंतरिक्ष विभाग, और क्षमता निर्माण के लिए भारत सरकार द्वारा प्रायोजित है। पाठ्यक्रम पूर्ण करने पर प्रतिभागियों को आईआईआरएस, इसरो से प्रमाण पत्र के साथ सम्मानित किया जाएगा। यह कार्यक्रम 16:00-17:30 बजे के दौरान प्रतिदिन प्रसारित किया जाएगा। इस कोर्स की घोषणा, विवरणिका की एक प्रति आपके सहयोगियों और आपके विश्वविद्यालय/ संस्थान/ संगठन में परिसंचरण के लिए इसके साथ भेजी जा रही है। यह पाठ्यक्रम यूजी और पीजी छात्रों/ शोधकर्ताओं/ वैज्ञानिक/ तकनीकी कर्मचारियों और इच्छुक व्यक्तियों के लिए उपलब्ध है। इसके व्यापक प्रचार और आपके विश्वविद्यालय/ संस्थान/ संगठन से अधिकतम भागीदारी के लिए आपके समर्थन की आवश्यकता है।

It is a unique opportunity for participants to learn directly from their place of working by devoting an hour and a half each day. The course can be attended with **no cost** to the participants. Programme can be received live through internet by utilizing A-VIEW software (www.aview.in) available freely or using live streaming from YouTube. This Programme is sponsored by NNRMS, Department of space, and Government of India for capacity building. The participants who successfully complete the course will be awarded a certificate from IIRS, ISRO. The programme is scheduled during 1600 Hrs.-1730 Hrs. every day for a week. A copy of the announcement brochure of this course is forwarded herewith for your kind perusal and for circulation in your university/institute/Organisation. The course is open to UG & PG students/researchers/scientific/technical staff and interested individuals. We need your support for wide publicity and maximum participation from your university/ institute/Organisation.

यदि आपको कार्यक्रम के बारे में और जानकारी की आवश्यकता है, तो कृपया संपर्क करने में संकोच न करें:

डॉ० प्रमोद कुमार, पाठ्यक्रम निदेशक एवं समूह प्रमुख, शहरी और क्षेत्रीय अध्ययन विकास

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डॉ० हरीश कर्नाटक, कार्यक्रम समन्वयक एवं हेड, जिओब सर्विसेज, आईटी और डिस्टेंस लर्निंग डिपार्टमेंट

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डॉ० संदीप मैथानी, पाठ्यक्रम समन्वयक, ३४ आईआईआरएस आउटरीच कार्यक्रम

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एडीयूसैट स्टूडियो / कंट्रोल रूम [श्री जनार्दन विश्वकर्मा और श्री अशोक घिल्लियाल]

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In case you need any further information about the programme, please feel free to contact:

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You may also visit IIRS website [http //www.iirs.gov in/Edusat-News](http://www.iirs.gov.in/Edusat-News) or <http://elearning.iirs.gov.in> for further details.

With regards and best wishes,



Dr. (Prof.) T. P. Singh
Director

(Prakash Chauhan) 5/7/18
Director

Government of India
Department of Space
Indian Space Research Organisation
Indian Institute of Remote Sensing
Dehradun

IIRS OUTREACH PROGRAMME

23 July, 2018 - 27 July, 2018

Geospatial Inputs for AMRUT Programme

Date	Day	Lecture	Faculty
23.07.2018	Monday	Atal Mission for Rejuvenation and Urban Transformation (AMRUT): Programme Objectives and Achievements	Dr. Pawan Kumar
24.07.2018	Tuesday	Geospatial Technologies, Data and Applications in AMRUT Programme	Pramod Kumar
25.07.2018	Wednesday	Survey Techniques and Navigation Systems based Data Collection for AMRUT	Dr. Anil Kumar
26.07.2018	Thursday	Mobile Apps for field-data Collection in AMRUT Programme	Dr. Harish Karnatak
27.07.2018	Friday	Design and Standards for Geospatial Data Creation and Enabling Master Plan Formulation under AMRUT	Dr. K. Venugopal Rao




Dr. (Prof.) T. P. Singh
Director

Symbiosis Institute of Geoinformatics
List Participants for the IIRS Coures A.Y 2018-2019

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15	20183449922	DALIYA BISWAS	SUBHASISH BISWAS	11-08-96	9804155815	biswasdaliya4@gmail.com
16	20183449921	Deblina Paul	Late Jayanta Kumar Paul	25-10-96	8697730478	deblina1996paul@gmail.com
17	20183449917	SHALINI ROY	SANJIB ROY	14-03-96	8697193899	shaliniroy1996@gmail.com
18	20183449677	Madhurima Ghosh	Sanjoy Ghosh Hazra	23-12-95	9971361179	ghoshmadhu95@gmail.com
19	20183449595	twinkle dasani	perminder b dasani	13-03-98	9073022775	tdasani13@gmail.com
20	20183449581	Akshita Rai	Arvind Kumar Rai	19-09-97	9555113749	aki.bb.freak@gmail.com
21	20183449482	Megha Karmakar	Avijit Chowdhury	08-11-96	9831851456	meghachowdhury008@gmail.com



Dr. (Prof.) T. P. Singh
Director



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING

भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



नामांकन सं./ Enrollment No. : 20183449917

बहिःपरिसर संपर्क/विस्तार कार्यक्रम प्रमाण पत्र
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

सहभागिता प्रमाणपत्र/CERTIFICATE OF PARTICIPATION

यह प्रमाणित किया जाता है कि कु० शालिनी रॉय, सिम्बायोसिस इंस्टिट्यूट ऑफ जियोइन्फॉर्मेटिक्स, पुणे, महाराष्ट्र को यह प्रमाण पत्र अमृत उप-योजना के अंतर्गत मास्टर प्लान फॉर्मूलेशन को सक्षम करने के लिए भू-स्थानिक इनपुट, पर आधारित पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है। उक्त पाठ्यक्रम इस संस्थान द्वारा 2018-07-23 से 2018-07-27 तक संचालित किया गया।

This is to certify that **MS. SHALINI ROY** from **Symbiosis Institute Of Geoinformatics, Pune, Maharashtra** has been awarded this certificate on having completed the course on **“Geospatial Inputs for Enabling Master Plan Formulation under AMRUT Sub-scheme”** conducted by this institute from July 23, 2018 to July 27, 2018.

दिनांक/ Date: 22-09-2018
देहरादून/ Dehradun

समन्वयक,
विश्वविद्यालय/संस्थान
Coordinator
University/ Institution

प्रमुख,
जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ
अधिगम विभाग
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पाठ्यक्रम निदेशक
Course Director,
IIRS

समूह प्रमुख,
भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह
Group Head, Geospatial Technologies &
Outreach Programme Group, IIRS

निदेशक,
आई०आई०आर०एस०
Director, IIRS

UID- c4116a6a5a09bfae59b88a593f591fc4 .This Certificate can be validated using URL- <http://certificate.iirs.gov.in>



Dr. (Prof.) T. P. Singh
Director



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



नामांकन सं./ Enrollment No. : 20183449922

बहिःपरिसर संपर्क/विस्तार कार्यक्रम प्रमाण पत्र
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यह प्रमाणित किया जाता है कि कु० दालिया बिस्वास, सिम्बायोसिस इंस्टिट्यूट ऑफ जियोइन्फॉर्मेटिक्स, पुणे, महाराष्ट्र को यह प्रमाण पत्र अमृत उप-योजना के अंतर्गत मास्टर प्लान फॉर्मूलेशन को सक्षम करने के लिए भू-स्थानिक इनपुट, पर आधारित पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है। उक्त पाठ्यक्रम इस संस्थान द्वारा 2018-07-23 से 2018-07-27 तक संचालित किया गया।

This is to certify that **MS. DALIYA BISWAS** from **Symbiosis Institute Of Geoinformatics, Pune, Maharashtra** has been awarded this certificate on having completed the course on **“Geospatial Inputs for Enabling Master Plan Formulation under AMRUT Sub-scheme”** conducted by this institute from July 23, 2018 to July 27, 2018.

दिनांक/ Date: 22-09-2018
देहरादून/ Dehradun
समन्वयक,
विश्वविद्यालय/संस्थान
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अधिगम विभाग
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पाठ्यक्रम निदेशक
Course Director,
IIRS

समूह प्रमुख,
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Group Head, Geospatial Technologies &
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निदेशक,
आई०आई०आर०एस०
Director, IIRS

UID- 7ee3dd4dba8428aff69777fb3fc5f119 .This Certificate can be validated using URL- <http://certificate.iirs.gov.in>



Dr. (Prof.) T. P. Singh
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भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING

भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



नामांकन सं./ Enrollment No. : 20183450038

बहिःपरिसर संपर्क/विस्तार कार्यक्रम प्रमाण पत्र
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

सहभागिता प्रमाणपत्र/CERTIFICATE OF PARTICIPATION

यह प्रमाणित किया जाता है कि कु० तनिषा भट्टाचारजी, सिम्बायोसिस इंस्टिट्यूट ऑफ जियोइन्फॉर्मेटिक्स, पुणे, महाराष्ट्र को यह प्रमाण पत्र अमृत उप-योजना के अंतर्गत मास्टर प्लान फॉर्मूलेशन को सक्षम करने के लिए भू-स्थानिक इनपुट, पर आधारित पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है। उक्त पाठ्यक्रम इस संस्थान द्वारा 2018-07-23 से 2018-07-27 तक संचालित किया गया।

This is to certify that **MS. TANISHA BHATTACHARJEE** from **Symbiosis Institute Of Geoinformatics, Pune, Maharashtra** has been awarded this certificate on having completed the course on **“Geospatial Inputs for Enabling Master Plan Formulation under AMRUT Sub-scheme”** conducted by this institute from July 23, 2018 to July 27, 2018.

दिनांक/ Date: 22-09-2018
देहरादून/ Dehradun

समन्वयक,
विश्वविद्यालय/संस्थान
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Group Head, Geospatial Technologies &
Outreach Programme Group, IIRS

निदेशक,
आई०आई०आर०एस०
Director, IIRS

UID- 538200d599a8e14a757f7cb0d54a100a .This Certificate can be validated using URL- <http://certificate.iirs.gov.in>



Dr. (Prof.) T. P. Singh
Director



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING

भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION

अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



नामांकन सं./ Enrollment No. : 20183450041

बहिःपरिसर संपर्क/विस्तार कार्यक्रम प्रमाण पत्र
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

सहभागिता प्रमाणपत्र/CERTIFICATE OF PARTICIPATION

यह प्रमाणित किया जाता है कि कु० सन्चारी दास मोदक, सिम्बायोसिस इंस्टिट्यूट ऑफ जियोइन्फॉर्मेटिक्स, पुणे, महाराष्ट्र को यह प्रमाण पत्र अमृत उप-योजना के अंतर्गत मास्टर प्लान फॉर्मूलेशन को सक्षम करने के लिए भू-स्थानिक इनपुट, पर आधारित पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है। उक्त पाठ्यक्रम इस संस्थान द्वारा 2018-07-23 से 2018-07-27 तक संचालित किया गया।

This is to certify that **MS. SANCHARI DAS MODAK** from **Symbiosis Institute Of Geoinformatics, Pune, Maharashtra** has been awarded this certificate on having completed the course on **“Geospatial Inputs for Enabling Master Plan Formulation under AMRUT Sub-scheme”** conducted by this institute from July 23, 2018 to July 27, 2018.

दिनांक/ Date: 22-09-2018
देहरादून/ Dehradun
समन्वयक,
विश्वविद्यालय/संस्थान
Coordinator
University/ Institution

प्रमुख,
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Course Director,
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Group Head, Geospatial Technologies &
Outreach Programme Group, IIRS

निदेशक,
आई०आई०आर०एस०
Director, IIRS

UID- 9b40c6b4965705b1667aa31f9c5235ae .This Certificate can be validated using URL- <http://certificate.iirs.gov.in>



Dr. (Prof.) T. P. Singh
Director

IIRS Outreach Programme

The IIRS outreach programme, which started in 2007 with 12 universities/ institutions has now grown substantially. Currently, about 730 universities / institutions spread across India are networked with IIRS. The beneficiaries of the programme may include:

- Professionals working in the field of Natural Resource Monitoring
- Training Academies
- Central/State/Private Universities & Academic Institutions
- Central & State Government Departments
- Research Institutes
- Geospatial Industries
- NGOs
- Individuals

Feedback Mechanism

IIRS has conducted workshops and sessions during IIRS User Interaction Meet to take feedback from participating institutions to improve the quality of future courses.



Feedback session during IIRS User Interaction Meet (IUIM)-2018 Awards

IIRS has received national awards for excellence in training for outreach and e-learning programme during 1st National Symposium on Excellence in Training conducted during April 11-12, 2015 in New Delhi by Department of Personnel & Training (DoPT), Govt. of India in collaboration with United Nations Development Programme (UNDP).



About IIRS

Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organisation (ISRO), Department of Space, Govt. of India is a premier Training and Educational Institute set up for developing trained professionals in the field of Remote Sensing, Geoinformatics and GNSS Technology for Natural Resources, Environmental and Disaster Management. Formerly known as Indian Photo-interpretation Institute (IPI), founded in 1966, the Institute boasts to be the first of its kind in entire South-East Asia. While nurturing its primary endeavour to build capacity among the user community by training mid-career professionals, the Institute has enhanced its capability and evolved many training and education programmes that are tuned to meet the requirements of various target groups, ranging from fresh graduates to policy makers including academia.

IIRS also conducts e-learning programme on Remote Sensing and Geo-information Science (<http://elearning.iirs.gov.in>).

Contact Details

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Course Director & Head, GIT& DL Dept.
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Dr. Poonam S Tiwari
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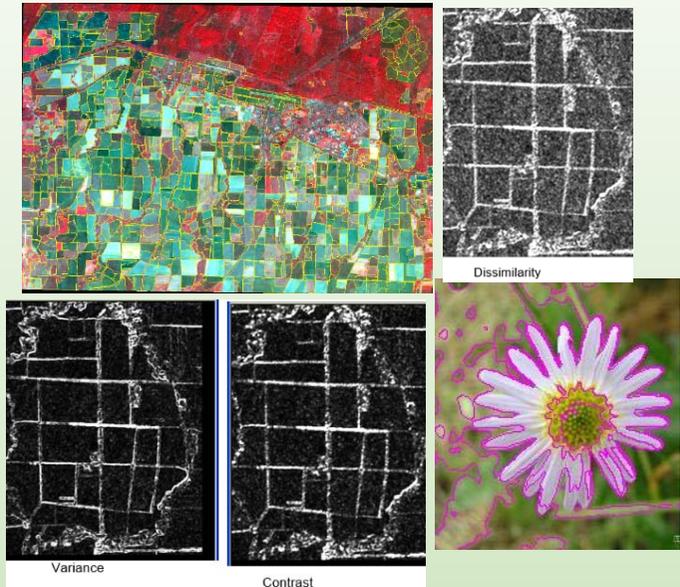
IIRS DLP Team

Mr. Janardan Vishwakarma
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Indian Institute of Remote Sensing,
Indian Space Research Organisation
Department of Space, Govt. of India,
4-Kalidas Road, Dehradun
Email: dip@iirs.gov.in

Thirty Third IIRS Outreach Programme



Advanced Image Analysis

June 04-15, 2018



Organised by

Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space, Govt. of India
Dehradun
www.iirs.gov.in

About the Course

In the last few years, the technologies related to imaging, video processing, computer graphics, 3D modelling and multimedia has witnessed a rapid growth. The continuous development of these technologies leads researchers to propose new methodologies and applications in the field of image analysis. Digital image processing has various applications ranging from remote sensing and entertainment to medical applications. Besides being just two- or three-dimensional arrays containing numbers (pixel intensity values), the images have a number of very interesting properties. These properties are a key to developing efficient and accurate algorithms for a variety of applications. This course will systematically study several such techniques motivated by these interesting properties of remote sensing images. This course explores a few major areas of digital image processing at an advanced level, with primary emphasis on remote sensing applications. Drawing upon the knowledge of recognized experts with years of practical experience, the course will expose the participants to a broad range of modern, state-of-the-art techniques in image processing.

Curriculum

- Advanced Image Processing: Techniques and Applications
- Change Detection: Methods and procedures (Lecture and Demonstration)
- Soft Classifiers for EO data (ANN, Fuzzy etc.)
- Rule based Classifiers for EO data (Decision tree, Random Forest etc.)
- Image texture: Algorithms and Models (Lecture and Demonstration)
- Methods and Algorithms for Image Segmentation, Object based Image Analysis
- Pan Sharpening methods for Remote Sensing data
- Image Processing in Spectral Domain: Fourier and Wavelet transforms
- Automated Feature Extraction, Mathematical Morphology for feature refinement (Lecture and Demonstration)
- Web Based Image Processing and Algorithm development: A case study

Target Participants

- The course is designed for professionals from Central / State Govt. / Private Organizations / NGO engaged in Image Processing Applications; students and researchers aligned to research in Remote Sensing and Image Analysis.
- The course participants have to be duly sponsored by their university / institution and application should be forwarded through coordinators from respective Organisations / centres. Users attending programmes under CEC-UGC / CIET / other networks can also participate. Institutions on high speed National Knowledge Network (NKN) can also participate using A-VIEW software.

Course Study Material

Course study materials like lecture slides, video recorded lectures, open source software & handouts of demonstrations, etc. will be made available through IIRS ftp link. Video lectures will also be uploaded on YouTube Channel:
(<http://www.youtube.com/user/edusat2004>).

Course Fee

There is ***no course fee***.

Course Registration

- Course updates and other details will be available on URL- <http://www.iirs.gov.in/Edusat-News/>
- To participate in this programme the interested organizations/ universities/ departments/ Institutes has to identify a coordinator at their end. The identified coordinator will register online his/her Institute as nodal center in IIRS website.
- All the participants has to register online through registration page by selecting his/her organization as nodal center.

Course Funding & Technical Support

The programme is sponsored by National Natural Resources Management System – Standing Committee on Training and Education (SC-T), Indian Space Research Organisation, Department of Space, Government of India and is conducted with due technical support from Amrita Virtual Interactive E-learning World (A-VIEW).

Programme Reception

Programme can be received through Internet connectivity of 2Mbps or better. Following hardware and software set-up is required at user end:

Hardware Requirements :

- High-end Computer/Laptop (Windows OS);
- Good quality web camera ;
- Headphone with Microphone;
- Speakers ;
- Large Display Screen (Projector or TV) .

Software and Internet Requirements:

- Desktop based: A-VIEW software (free to download from www.aview.in or IIRS ftp link: <ftp://ftp.iirs.gov.in>)
- Online live access through <http://live.iirs.gov.in> with free registration.

Connectivity & Other configurations:

- NKN or any other high speed internet facility (preferably without firewall, with minimum of 2 Mbps bandwidth)
- Network requirements: Port 80 and RTMP (port 1935) protocol should be unblocked from user's computer and Firewall.

Note: Institutions/ universities have to bear total expenses for establishment of the classroom facility

Award of Certificate

Working Professionals: Based on 70% attendance and submission of assignments.

Students: Based on 70% attendance and an online examination.

techniques in image processing. The course will cover topics on Advanced Image Processing such as: Techniques and Applications, Knowledge Based Classifiers and Change Detection, Fuzzy based Soft Classifier for Remote Sensing data, Artificial Neural Networks and Classification Methods, Image texture: Algorithms and Models, Methods and Algorithms for Image Segmentation, Image Processing in Spectral Domain: Fourier and Wavelet transforms, Automated Feature Extraction, Web Based Image Processing: Tools and techniques.

अपने कार्यस्थल से प्रतिदिन डेढ़ घंटा समर्पित करके भूस्तरीय प्रौद्योगिक सीखने का यह एक अनोखा अवसर है। इस पाठ्यक्रम में **निशुल्क**: भाग लिया जा सकता है। ए-व्यू सॉफ्टवेयर (www.aview.in) का प्रयोग कर इंटरनेट के जरिए कार्यक्रम स्वतंत्र रूप से उपलब्ध हो सकता है। यह कार्यक्रम एनएनआरएमएस, अंतरिक्ष विभाग, और क्षमता निर्माण के लिए भारत सरकार द्वारा प्रायोजित है। पाठ्यक्रम पूर्ण करने पर प्रतिभागियों को आईआईआरएस, इसरो से प्रमाण पत्र के साथ सम्मानित किया जाएगा। यह कार्यक्रम 16:00-17:30 बजे के दौरान प्रतिदिन प्रसारित किया जाएगा। इस कोर्स के घोषणा, विवरणिका की एक प्रति आपके सहयोगियों और आपके विश्वविद्यालय / संस्थान / संगठन में परिसंचरण के लिए इसके साथ भेजी जा रही है। यह पाठ्यक्रम यूजी और पीजी छात्रों / शोधकर्ताओं / वैज्ञानिक / तकनीकी कर्मचारियों और इच्छुक व्यक्तियों के लिए उपलब्ध है। इसके व्यापक प्रचार और आपके विश्वविद्यालय / संस्थान / संगठन से अधिकतम भागीदारी के लिए आपके समर्थन की आवश्यकता है।

It is a unique opportunity for participants to learn directly from their place of working by devoting an hour and a half each day. The course can be attended with **no cost** to the participants. Programme can be received live through internet by utilizing A-VIEW software (www.aview.in) available freely or using live streaming from YouTube. This Programme is sponsored by NNRMS, Department of space, and Government of India for capacity building. The participants who successfully complete the course will be awarded a certificate from IIRS, ISRO. The programme is scheduled during 1600 Hrs.-1730 Hrs. every day for a week. A copy of the announcement brochure of this course is forwarded herewith for your kind perusal and for circulation in your university/institute/Organisation. The course is open to UG & PG students/researchers/scientific/technical staff and interested individuals. We need your support for wide publicity and maximum participation from your university/ institute/Organisation.

यदि आपको कार्यक्रम के बारे में और जानकारी की आवश्यकता है, तो कृपया संपर्क करने में संकोच न करें

Ph.: 0135-2524332 (Office), M: +91 9456565523 or email: harish@iirs.gov.in

डॉ पूनम एस तिवारी, कार्यक्रम समन्वयक, आईआईआरएस आउटरीच प्रोग्राम

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एडीयूसैट स्टूडियो / कंट्रोल रूम [श्री जनार्दन विश्वकर्मा और श्री अशोक घिल्लियाल]

Ph.: 0135-2524130, email: dlp@iirs.gov.in

In case you need any further information about the programme, please feel free to contact:

Dr. Harish Karnatak, Head, Geoweb Services, IT & Distance Learning Department

Ph.: 0135-2524332 (Office), M: +91 9456565523 or email: harish@iirs.gov.in

Dr. Poonam S. Tiwari, Programme Coordinator, IIRS Outreach Programme

Ph. 0135-2524334 (Office), M: +91 9410924417 or email- poonam@iirs.gov.in

EDUSAT Studio/Control Room [Shri Janardan Vishwakarma & Shri Ashok Ghildiyal]

Ph.: 0135-2524130, email: dlp@iirs.gov.in

You may also visit IIRS website [http //www.iirs.gov.in/Edusat-News](http://www.iirs.gov.in/Edusat-News) for further details.

With regards and best wishes,

(Prakash Chauhan)
Director

Encl: Course Brochure and Schedule



Dr. (Prof.) T. P. Singh
Director

33rd IIRS Outreach Programme
on
“Advanced Image Analysis”
June 04-15, 2018

S.No.	Topic	Date	Faculty
1	Advanced Image Processing: Techniques and Applications	04/06/2018	SA
2	Change Detection: Methods and procedures (Lecture and Demonstration)	05/06/2018	HP
3	Soft Classifiers for EO data (ANN, Fuzzy etc.)	06/06/2018	AK
4	Rule based Classifiers for EO data (Decision tree, Random Forest etc.)	07/06/2018	PST
5	Image texture: Algorithms and Models (Lecture and Demonstration)	08/06/2018	PST
6	Methods and Algorithms for Image Segmentation, Object based Image Analysis	11/06/2018	PST
7	Pan Sharpening methods for Remote Sensing data	12/06/2018	HP
8	Image Processing in Spectral Domain: Fourier and Wavelet transforms	13/06/2018	SA
9	Automated Feature Extraction, Mathematical Morphology for feature refinement (Lecture and Demonstration)	14/06/2018	HP
10	Web Based Image Processing and Algorithm development: A case study	15/06/2018	HCK



T.P.S.
Dr. (Prof.) T. P. Singh
Director

Symbiosis Institute of Geoinformatics

List Participants for the IIRS Coures A.Y 2018-2019

.No.	RegNo.	Name	Father's Name	DOB	Mobile No.	Email	ID_Proof	Date
1	20183345603	Rizwan Khan	Mohammed Qamar Iqbal Khan	24-02-91	9052554356	16070241049@sig.ac.in	View	04-06-18 1:41
2	20183345575	Sonia Agnihotri	Krishna Narayan Agnihotri	02-03-91	8141211069	agnisonia2009@gmail.com	View	03-06-18 18:22
3	20183345573	Parag Khopkar	Sanjay Khopkar	11-10-88	9673873291	parag.khopkar@gmail.com	View	03-06-18 18:12
4	20183345329	Sandipan Das	Kalyan Das	16-04-84	9503001027	sandipan@sig.ac.in	View	01-06-18 9:56
5	20183345294	Pravarta Mulay	Kanchan Mulay	17-10-94	9987878699	94pravarta@gmail.com	View	31-05-18 13:01
6	20183345276	Darshana pathak	Mr. G.D. Pathak	12-04-83	8006905461	darshana@sig.ac.in	View	31-05-18 10:33
7	20183343895	Rajat Chopra	Naresh Chopra	05-08-88	7795213812	rajat@sig.ac.in	View	02-05-18 10:18



Dr. (Prof.) T. P. Singh
Director



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



नामांकन सं./ Enrollment No. : 20183345573

बहिःपरिसर संपर्क/विस्तार कार्यक्रम प्रमाण पत्र
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

सहभागिता का प्रमाणपत्र/CERTIFICATE OF PARTICIPATION

यह प्रमाणित किया जाता है कि **श्री पराग खोपकर**, सिम्बायोसिस इंस्टिट्यूट ऑफ जियोइन्फॉर्मेटिक्स, पुणे, महाराष्ट्र को यह प्रमाण पत्र **उन्नत छवि विश्लेषण**, पर आधारित पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है। उक्त पाठ्यक्रम इस संस्थान द्वारा 04-06-2018 से 18-06-2018 तक संचालित किया गया।

This is to certify that **MR. PARAG KHOPKAR** from **Symbiosis Institute Of Geoinformatics, Pune, Maharashtra** has been awarded this certificate on having completed the course on **“Advanced Image Analysis”** conducted by this institute from June 04, 2018 to June 18, 2018.

दिनांक/ Date:01-08-2018
देहरादून/ Dehradun
समन्वयक,
विश्वविद्यालय/संस्थान
Coordinator
University/ Institution

प्रमुख,
जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ
अधिगम विभाग
Head, Geoweb Services, IT & Distance
Learning Department, IIRS

पाठ्यक्रम निदेशक
Course Director,
IIRS

समूह प्रमुख,
भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह
Group Head, Geospatial Technologies &
Outreach Programme Group, IIRS

निदेशक,
आई०आई०आर०एस०
Director, IIRS





भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



COR333702018

बहिः परिसर संपर्क/विस्तार कार्यक्रम प्रमाण पत्र
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

संस्थान की सहभागिता का प्रमाण पत्र
CERTIFICATE OF PARTICIPATION OF INSTITUTE

यह प्रमाणित किया जाता है कि **सिम्बायोसिस इंस्टिट्यूट ऑफ जियोइन्फॉर्मेटिक्स, पुणे, महाराष्ट्र** ने भारतीय सुदूर संवेदन संस्थान, इसरो देहारादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम **“उन्नत छवि विश्लेषण”** में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 04-06-2018 से 18-06-2018 तक किया गया।

This is to certify that **Symbiosis Institute Of Geoinformatics, Pune, Maharashtra**, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on **“Advanced Image Analysis”**. This online programme was conducted during June 04, 2018 to June 18, 2018.

दिनांक/ Date: **01-08-2018**
देहारादून/ Dehradun

प्रमुख,
जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग
Head, Geoweb Services, IT & Distance Learning Department, IIRS

समूह प्रमुख,
भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह
Group Head, Geospatial Technologies & Outreach Programme Group, IIRS



Dr. (Prof.) T. P. Singh
Director



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



बहिःपरिसर संपर्क/विस्तार कार्यक्रम प्रमाण पत्र
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

COR333702018

समन्वय का प्रमाणपत्र
CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि सिम्बायोसिस इंस्टिट्यूट ऑफ जियोइन्फॉर्मैटिक्स, पुणे, महाराष्ट्र में कार्यरत **सोनल रावल**, ने “**उन्नत छवि विश्लेषण**” विषय पर इस संस्थान द्वारा दिनांक 04-06-2018 से 18-06-2018 तक संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम को समन्वित किया।

This is to certify that **MRS. SONAL RAWAL**, working with **Symbiosis Institute Of Geoinformatics, Pune, Maharashtra**, has coordinated the online training course on “**Advanced Image Analysis**” conducted by this institute during June 04, 2018 to June 18, 2018.

दिनांक/ Date: 01-08-2018
देहरादून/ Dehradun

प्रमुख,
जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग
Head, Geoweb Services, IT & Distance Learning Department, IIRS

समूह प्रमुख,
भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह
Group Head, Geospatial Technologies & Outreach Programme Group, IIRS



Dr. (Prof.) T. P. Singh
Director

Programme Schedule:

Day 1:

Session 1 & Session 2

- Self Awareness
 - Understanding Self
 - Perception & Attitudes
 - Identifying one's Potential & areas of improvement
- Basics of Communication
 - Understanding Communication Process
 - Barriers to Communication

Session 3 & Session 4

- Effective Communication
 - Improving Communication Process
 - Effective Listening
 - Improving Verbal & Non verbal Communication

Day 2:

Session 1 & Session 2

- Interpersonal Relationships
 - Understanding Others
 - Understanding our roles in Personal / Professional / Social lives
 - Importance of Communication in our lives

- Importance of Interpersonal relationships in motivating team members

Session 3 & Session 4

- Motivation
 - Understanding our needs and desires
 - What motivates us & others?
 - Importance of motivation in organisation
 - Motivating for effective performance

Day 3:

Session 1 & Session 2

- Team Bonding & Group Dynamics
 - Working in Teams
 - Developing Team Synergy

Session 3 & Session 4

- Enhancing Team Performance
- Understanding potential sources of Conflicts
- Resolving Conflicts

Day 4:

Session 1 & Session 2

- Leadership
 - Role of a Leader
 - Leadership Skills

Session 3 & Session 4

- Leadership



Dr. (Prof.) T. R. Singh
Director

- Being Assertive
- Decision Making
- Problem Solving

Day 5:

Session 1 & 2

- Time Management
- Setting Life's Goals & Action Plan

Session 3 & 4

- Work Life Balance – An Understanding
- Stress Management

Training Methods:

A rich blend of experiential processes, case studies, discussions, management games, role plays and outbound training methods will be used.



Dr. (Prof.) T. P. Singh
Director

Symbiosis Institute Of Geoinformatics
Faculty Session for M.Sc Geoinformatics Batch 2018-2020 (SEM I)

Course Name - Orientation Programme
Faculty Name - Sandeep Sinha

Date	Timings	No. of Hrs.	Topics Covered	Faculty sign	Co-ord. Sign	Director Sign
4/6/18	9.30	8	- Self Introduction	<i>S Sinha</i>		
	5.30		- Self Awareness			
			- Understanding Self			
			- Basis of Perception			
			- Communication Basics			
			- Improving Comm			
5/6/18	9.30	8	- Self Esteem	<i>S Sinha</i>		
	5.30		- Understanding Others			
			- Improving Interpersonal Relations			
			- Motivation Basics			
			- Effective Performance Parameters			
6/6/18	9.30	8	- Self Concept	<i>S Sinha</i>		
	5.30		- Awareness of Potential			
			- Competence			
			- Team Bonding			
Total No. Of Hrs.		24				



S Sinha
Dr. (Prof.) T. P. Singh
Director

Symbiosis Institute Of Geoinformatics
Faculty Session for M.Sc Geoinformatics Batch 2018-2020 (SEM I)

Course Name - Orientation Programme
Faculty Name - Sandeep Sinha

Date	Timings	No. of Hrs.	Topics Covered	Faculty sign	Co-ord. Sign	Director Sign
			- Team Effectiveness - Conflict Resolution - Leaderships Basics.			
7/6/18	9.30 5.30	8	- What Motivates me? - Leadership Role - Leadership Effectiveness Parameters - Problem Solving - Decision Making.			
8/6/18	9.30 5.30	8	- SWOT- self - Life's Goal Setting. - Managing Time - Managing Stress - Relaxation Techniques - work-Life Balance			
Total No. Of Hrs.		16				

+ 24
40 hrs



Dr. (Prof.) V. P. Singh
Director

SYMBIOSIS INSTITUTE OF GEOINFORMATICS

Attendance Sheet for MSc. Batch 2018-20 (SEM I) Orientation Programme

Course Name:

Faculty Name: *Sandeep Sinha*

Month: *June*

Dates: *4/6* *5/6* *6/6* *7/6* *8/6*

Hours conducted:

Sr. No.	Student Name	4/6	5/6	6/6	7/6	8/6
1	180700257 Abhimanyu Phatak	P	P	A	A	P
2	180700600 Akshita Rai	-	-	-	-	-
3	182200055 Amrita Bharati	P	P	P	P	P
4	180700584 Aniruddha Sinha	P	P	P	P	P
5	182200053 Anisha Mukhopadhyay	P	P	P	P	P
6	180700093 Anveen bhasin	P	-	P	P	-
7	180700150 Anyesha Sarkar	P	P	P	P	P
8	182200039 Aparajita Maji	P	P	P	P	P
9	182200060 Atrayee Roy	P	P	P	P	P
10	180700092 Bhavana	P	P	P	P	P
11	182200083 Daliya Biswas	P	P	P	P	P
12	182200009 Deblina Paul	P	P	P	P	P
13	Walk In Deepika	P	P	P	P	P
14	180700583 Dhanuragavi	-	P	P	P	P
15	182200005 Diksha kumari	P	P	P	P	P
16	180700197 Gourab Saha	P	P	P	P	P
17	182200091 Isheeta Singh	P	P	P	P	-
18	182200088 Karan Arun Kadam	P	P	P	P	P
19	Walk In Komal Naik	P	P	P	P	P
20	182200013 Koushani Chakraborty	P	P	P	A	P
21	180700340 Kunal damry	P	P	P	A	-
22	Walk In Lakshmi Das	-	-	P	P	P
23	182200062 Madhulika Mitra	P	P	P	P	P
24	182200007 Madhurima Ghosh	P	P	P	P	P
25	182200016 Mahasweta Chakraborty	P	P	P	P	P
26	Walk In Manish Padole	P	P	-	P	P
27	180700113 Megha Choudhary Karmakar	P	P	P	P	P
28	180700190 Mitina Upwanshi	P	P	P	P	P
29	180700045 Muskan Thareja	P	P	P	P	P

Faculty Signature:

Sandeep Sinha
Sandeep Sinha
Sandeep Sinha
Sandeep Sinha
Sandeep Sinha

SYMBIOSIS INSTITUTE OF GEOINFORMATICS
Attendance Sheet for MSc. Batch 2018-20 (SEM I) Orientation Programme

Course Code:

Faculty Name:

Month:

Dates: 4/6 5/6 6/6 7/6 8/6

Hours conducted:

Sr. No.	Student Name	4/6	5/6	6/6	7/6	8/6
30	180700168 Nabanita Sukla Das	P	P	P	P	P
31	Walk in Nachiket Vidhwans	P	P	P	P	P
32	180700028 Nancy Toppo	P	A	P	P	P
33	182200080 Niladri Saha	P	P	P	P	A
34	180700579 Nirbhay Singh	A	P	P	A	P
35	180700239 Parnasha Chakraborty	-	-	-	-	-
36	180700046 Pooja Singh	-	-	-	-	-
37	182200090 Priya Das	P	P	P	P	P
38	180700228 Protikar Sen	P	P	A	A	P
39	180700256 Rakhi Ojha	P	P	P	P	-
40	182200096 Ranjul Arora	P	P	P	P	-
41	180700474 Richa Vaid	P	P	P	P	P
42	180700718 Sampurna Sanyal	P	P	P	P	P
43	182200024 Sanchari Das Modak	P	P	P	P	-
44	182200020 Sarannya Banerjee	P	P	P	A	P
45	182200028 Sarina Podder	P	P	P	P	P
46	180700221 Sarmi Paul	P	P	P	P	P
47	182200044 Sarmistha Halder	P	P	P	P	P
48	180700126 Sayanee Haldar	P	P	P	A	A
49	182200033 Shalini Dutta	P	P	P	A	P
50	182200008 Shalini Roy	P	P	P	P	P
51	180700108 Shrila Chakraborty	P	P	P	P	P
52	180700183 Soniya Srivastava	-	-	-	-	-
53	182200026 Sreejita Chakraborty	P	P	P	P	P
54	182200079 Srijita Bose	P	P	P	P	P
55	182200051 Suchana Chattaraj	P	P	P	P	P
56	182200047 Sunanda Dhibar	P	P	P	P	P
57	182200037 Tanisha Bhattacharjee	P	P	P	P	-
58	Walk In Tejas Mahadik	-	-	P	A	-
59	182200015 Twinkle Dasani	-	-	P	A	P

Faculty Signature:

Swity Sonawane

(Handwritten signatures)



Dr. (Prof.) T. P. Singh
Director



SYMBIOSIS CENTRE FOR YOGA

Symbiosis International (Deemed University)

(Established under section 3 of the UGC Act 1956)

Re-accredited by NAAC with 'A' Grade (3.58/4) | Awarded Category I by UGC

Founder: Prof. Dr. S. B. Mujumdar, M.Sc., Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)



Celebration of World Yoga Day / International Day of Yoga on 21st June 2018

Concept Note

“Symbiosis Yoga Program – Unity of mind and body”

Symbiosis has been celebrating International Yoga Day consecutively for the last four years with our students, staff for the betterment of society, ultimately to help in building a Prosperous and Mindful Nation.

The first year was the **Year of ASANAS**,

The second year was **the Year of DESK YOGA and YOGA POPUPS**.

The third year was the **Year of PRANA & 108 days Yoga Challenge**

This year it is the year of **“Unity of Mind & Body” & 108 days Yoga Challenge**

On the occasion of International day of Yoga 21st June 2018, along with routine **ASANAS**, we wish to inculcate and foster an understanding that the whole world is one family through an innovative practice namely Meditation on **“Vasudhaiva Kutumbakkam”** through the **“Unity of Mind & Body”**. It is a social philosophy emanating from a spiritual understanding that the whole of humanity is made of **one life energy**. This meditation would help release the suppressed energy and negative emotions, so that a feeling of **oneness can be experienced within**.

- **108 days Yoga Challenge:** This year the challenge comprises of increasing the number of Suryanamaskars so as to culminate in an open 108 Suryanamaskar performance. (Details attached).



Dr. (Prof.) T. P. Singh
Director

International Day of Yoga Schedule 21st June 2018

Sr. No.	Campus	Institute	Time	Venue	Trainer
1	SIMS, Khadki	SIMS	9:30 am – 10:30 am	In front of Audi	Manjusha B.
2	S. B. Road	SIHS, BMT, SCON	10.15 am – 11.15 am	Vishwabhavan Parking	Kishor Pawar
		SSE Society			Atul Pardeshi Shweta Sharma
3	SIC, Hinjewadi	SIIB	10 am – 11 am	Class room	Nirmal Salvi & Ajay
		SCIT, SCMHRD	10 am – 11 am	Group Activity hall RWC / Swimming pool area	Badshah & Rajendra Pable
4	New Vimannagar	SLS, SSLA & SSIS	10 am – 11 am	Open corridor / Multipurpose hall SLS	Prasad Chandekar & Sagar Chaugule
5	Old Vimannagar	SCMS	10 am – 11 am	Classroom/ Corridor	Beula K & Sunil
		SID, SCMC	10 am – 11 am	Classroom/ Corridor	Priyanka & Jagdish
6	Lavale Hilltop	All Institute	9:30 am – 10:30 am	Badminton Hall	Wasim, Shiny, Jay
7	Lavale Hillbase	All Institute	9:30 am – 10:30 am	Culinary parking	Milind, Krishna, Bagchi
8	Model Colony	SICSR	10 am – 11 am	Hall	Mohan/Anthony
9	International Students	SCIE	11 am – 12 noon	Convention hall	Prashant Pandey
10	Symbiosis School	All school of Symbiosis	9.30 am to 10.30 am	Common hall	PE Teachers

Schedule proposed for off Campus:

Sr. No.	Campus	Timing	USB/RWC Nodal person	Venue	Trainer
1	Nashik (Staff & Students of SIOM)	10:30 am to 11:30 am	Mr. Yashwant Chavhan) 9011376610	Green Turf area	Mr. Jain (9420750518)
2	Noida (Staff & Students of SLS Noida & SCMS)	10:30 am to 11:30 am	Ms Sarita Singh 7550497577	Multipurpose Hall	Prerna Tiwary (9899824212)
3	Hyderabad (Staff & Students of SLS & SIBM)	10:30 am to 11:30 am	Mr. Rajeev Rajawat 9130066878	Multipurpose Hall	Mr. Ashok (09030676999)
4	Bengaluru (Staff & Students of SIBM & SCMC)	10:30 am to 11:30 am	Mr. Mohan 8050644957	Multipurpose Hall	Sn. Devanand (08867739306)




 Dr. (Prof.) T. P. Singh
 Director

Community Yoga at Village on 20th June 2018

Sr. No.	Trainer	Time	Village
1	Dr. Nayana/Prashant Pandey	10 – 11 am	SUS
2	Anthony/Ujwala	10 – 11 am	Lavale
3	Shweta/Kishor	10 – 11 am	Lavarde
5	Beula/Atul	10 – 11 am	Rehae

Campus Administrator is not expected to pay any professional remuneration to the yoga experts.

1. Symbiosis Centre of Yoga (SCY) shall:

- Provide the backdrop or e-banner
- Provide the yoga demonstrators for off campus
- Produce record of attendance to SIU

2. Institute shall:-

- Responsible for delegating staff and students.
- Refreshments if needed.
- Ensure that participants get their own mat/towels

Instructions to participants:

- The session is open for all.
- Be seated 10 min before commencement of the session in the venue mentioned above.
- Seating Arrangement:** Men and Women participants to be seated separately.
- Attire:** Wear loose fitting clothes. Avoid jeans, belts and laced shoes.
- Food Intake:** Eat two hours prior to the session.
- Voiding:** Empty your bladder before the session.
- Belongings:** Avoid getting belongings.
- Mobile:** Should be on silent mode and kept a distance apart, should not be in body contact.
- Listen to the instructions carefully & concentrate on correct posture and proper breathing.
- Pregnant and menstruating women should avoid forward bending poses and kapal bhati.
- If at any point of time you feel uneasy or out of breath please stop the activity.
- 12. Bring your own yoga mat or big towel for the session.**

Minute to Minute Program

- Assembly – 10 minutes before session.
- Welcome of participants
- Commencement of the session
- Session concludes in 50 minutes

Dr. Nayana Nimkar
Director, SSSS




Dr. (Prof.) T. P. Singh
Director



SYMBIOSIS CENTRE FOR YOGA



International Day of Yoga Registration

Name of Institute : **SIG, Pune**

1	Prof. (Dr.) Tarun P Singh	Director & Professor	director@sig.ac.in
2	Dr. Navendu Chaudhary	Associate Professor	navendu@sig.ac.in
3	Dr. Sandipan Das	Assistant Professor	sandipan@sig.ac.in
4	Mrs. Ashwini Mohgaonkar	Deputy Director	deputydirector@sig.ac.in
5	Dr. B K Pattnaik	Assistant Professor	binaya@sig.ac.in
6	Mrs. Darshana Pathak	Assistant Professor	darshana@sig.ac.in
7	Mr. Rajat Chopra	Teaching Assistant	rajat@sig.ac.in
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9	Mr. A. B. Singh	Office Superintendent	absingh@sig.ac.in
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AO/OS
Mr. A. B. Singh
Office Superintendent, SIG



Director
Dr. (Prof.) T. P. Singh
Director

Summary

Name of the capability enhancement scheme	Year of implementation	Number of students enrolled	Name of the agencies involved with contact details
Technology – Geospatial Inputs for Enabling Master Plan Formulation under AMRUT Sub-scheme	July 23 -27, 2018	21	IIRS, ISRO
Technology – Advanced Image Analysis	June 04-15, 2018	7	IIRS, ISRO
Communication & softskills	4 – 8 June 2018	55	Sandeep Sinha
Yoga Day	21st June 2018	18	SIU

