

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

62nd IIRS Outreach Programme

on

“Geospatial Inputs for Enabling Master Plan Formulation”

By Dr. Pawan Kumar, TCPO, MoHUA, GoI, Pramod Kumar, Dr. Anil Kumar, Shri. Kamal Pandey, Dr. Sandeep Maithani, Scientists, Indian Institute of Remote Sensing, Dehradun

July 27-31, 2020

The Department of Electronics and Communication Engineering has organized a 5-Day Outreach Programme conducted by Indian Institute of Remote Sensing, Dehradun during July 27 – 31, 2020. The target audience are the faculty and students of various disciplines of Sree Vidyanikethan Educational Trust, Tirupati.

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. This outreach programme covered the following topics:

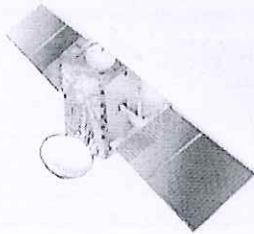
- Atal Mission for Rejuvenation and Urban Transformation (AMRUT) Programme Objectives and Achievements
- Geospatial Technologies, Data and Applications in AMRUT Programme
- Survey Techniques and Navigation Systems based Data Collection for AMRUT
- Mobile Apps for field data Collection in AMRUT Programme
- Design and Standards for Geospatial Data Creation and Enabling Master Plan Formulation under AMRUT

Finally, a group panel discussion was conducted on 31-07-2020 with all online users and expert panel who are experienced Scientists from Indian Institute of Remote Sensing, Dehradun. A total of 22 members from different disciplines have participated in this programme.

Dr. V. V. Satyanarayana Tallapragada, Associate Professor has coordinated this event under the guidance of Dr. P. V. Ramana, Professor and Head, Department of Electronics and Communication Engineering.


Convener

Sixty-Second IIRS Outreach Programme



Geospatial Inputs for Enabling Master Plan Formulation

July 27-31, 2020



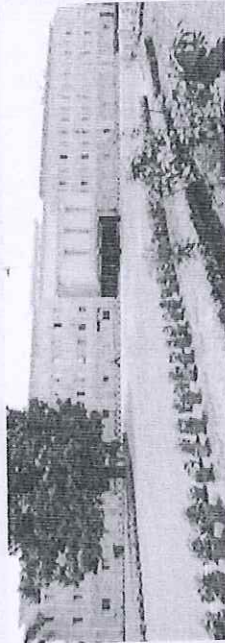
Organised by

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

www.iirs.gov.in

About IIRS

The Indian Institute of Remote Sensing (IIRS) is a constituent unit of Indian Space Research Organisation (ISRO), Department of Space, Govt. of India. Since its establishment in 1966, IIRS is a key player for training and capacity building in geospatial technology and its applications through training, education and research in Southeast Asia. The training, education and capacity building programmes of the Institute are designed to meet the requirements of Professionals at working levels, fresh graduates, researchers, academia, and decision makers. IIRS is also one of the most sought after Institute for conducting specially designed courses for the officers from Central and State Government Ministries and stakeholder departments for the effective utilization of Earth Observation (EO) data. IIRS is also empaneled under Indian Technical and Economic Cooperation (ITEC) programme of Ministry of External Affairs, Government of India providing short term regular and special courses to international participants from ITEC member countries since 2001.



IIRS Main Building

IIRS hosts headquarters of Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP), affiliated to the United Nations and provides support in conducting the Remote Sensing and GIS training and education programmes. IIRS also plays a key role in the activities of Indian Society of Remote Sensing (ISRS), which is one of the largest non-governmental Scientific Societies in the country. To widen its outreach, IIRS has started live and interactive Distance Learning Programme (DLP) since 2007. IIRS has also launched e-learning course on Remote Sensing and Geo-information Science since August, 2014.

IIRS Outreach Programme

IIRS has setup a state-of-art studio facility and control room to broadcast live and interactive classroom sessions and practical demonstrations through its Distance Learning Centre. The high definition video quality are broadcasted to its users. The IIRS outreach programme, which started in 2007 with 12 universities/institutions has now grown substantially. Currently, 1300+ Network institutions spread across India are networked with IIRS.

Contact Details

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IIRS Outreach Programme

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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 27-31, 2020. The course will contain five lectures (each of one to one and half hour duration).

IIRS has successfully conducted more than 60 distance learning courses on various themes related to Geospatial Technology and its applications so far with 1.7 Lakh participants from around 1800 Institutions/ Universities (as on July 08, 2020) spread across India.

Objective of the Course

The overall objective of this distance learning short-term training programme is to make the awareness among users/researchers/professionals about the use of geospatial inputs for enabling Master Plan Formulation process under the AMRUT sub-scheme.

Curriculum

Following topics will be covered in this course

- Atal Mission for Rejuvenation and Urban Transformation (AMRUT): Programme Objectives and Achievements

- Geospatial Technologies, Data and Applications in AMRUT Programme
- Survey Techniques and Navigation Systems based Data Collection for AMRUT
- Mobile Apps for field-data Collection in AMRUT Programme
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Target Participants

The candidates who want to participate in the course should be a graduate or postgraduate (any year). Technical/ Scientific Staff of Central/State Government/Faculty/researchers at University/Institutions are also eligible to apply for this course.

Course Study Material

Course study materials like lecture pdf, video recorded lectures, open source software & handouts of demonstrations, etc. will be made available through eclass. Link : <https://eclass.iirs.gov.in/login> Video lectures will also be uploaded on E-Class.

<https://eclass.iirs.gov.in/login>

Course Fee: NIL

There is no course fee for live and interactive course)

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 centre on IIRS website.
- All the participants has to register online through registration page by selecting his/her organization as nodal centre. Please note that only 10,000 participants shall be allowed to register for the programme.

Course Funding & Technical Support

The programme is sponsored by Indian Space Research Organization, Department of Space, Government of India.

Programme Reception

Programme can be received through e-class platform of IIRS-ISRO Using internet connectivity. No specific hardware/software is required. However, it is recommended that users should have good internet connectivity. To run the programme in a class room, following computer hardware shall be required

- Desktop computer with web camera microphone & output speaker or laptop with microphone camera and output speaker
- Large display screen/projector/TV

Important Links

Course updates and other details will be available on URL- <https://www.iirs.gov.in/EDUSAT-News/>

To participate in this programme, the interested Organisations/ Universities/ Departments/ Institutes have to identify the Coordinator at their end. The identified coordinator will register online his/her Institute as nodal centre on IIRS website

(<https://eclass.iirs.gov.in/eclass/registration/coordinator>).

All the participants have to register online through registration

(<https://eclass.iirs.gov.in/eclass/registration/coordinator>) by selecting his/her organisation as nodal centre.

Award of Certificate

Working Professional and Students: Based on 70% attendance and 40% in the online examination

As the seats are limited, the registration shall be done on first come, first serve basis.



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

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Lecture Schedule

Date & Time	Day	Lecture	Faculty
27.07.2020 1600 to 1730 Hrs	Monday	Atal Mission for Rejuvenation and Urban Transformation (AMRUT): Programme Objectives, Design & Standards and Achievements	Dr. Pawan Kumar, TCPO, MoHUA, Gol
28.07.2020 1600 to 1730 Hrs	Tuesday	Geospatial Technologies, Data and Applications in AMRUT Programme	Pramod Kumar
29.07.2020 1600 to 1730 Hrs	Wednesday	Survey Techniques and Navigation Systems based Data Collection for AMRUT	Dr. Anil Kumar
30.07.2020 1600 to 1730 Hrs	Thursday	Mobile Apps for field-data Collection in AMRUT Programme	Shri. Kamal Pandey
31.07.2020 1600 to 1730 Hrs	Friday	GIS-based Master Plan Formulation for Some Cities under AMRUT Sub-scheme	Dr. Sandeep Maithani