



**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL  
AND  
ISRO BENGALURU**

**WELCOMES YOU TO THE INAUGURATION OF  
Regional Academic Centre for Space (RAC-S)  
NITK, Surathkal  
And  
Workshop on Space Technology Applications**

**By**

**DR. K. SIVAN  
Chairman – ISRO & Secretary – DoS , Government of India**

**At 10.00 am on 3<sup>rd</sup> January, 2020**

**In the August Presence of**

**DR. P. V. VENKITAKRISHNAN  
Director – CPBO, ISRO, Govt. of India**

**PROF. KARANAM UMAMAHESHWAR RAO  
Director – NITK Surathkal**

**Faculty, Staff and Students of NITK Surathkal**

***About Regional Academic Centre for Space (RAC-S):***

National Institute of Technology Karnataka Surathkal and Indian Space Research Organization (ISRO) are partnering to carryout advanced joint R&D activities in the area of Space Technology Applications. In this context, ISRO and NITK will be signing an MoU on 3<sup>rd</sup> January 2020 and set-up a Regional Academic Centre for Space (RAC-S) at NITK Surathkal to pursue advanced research in the areas of relevance to the future technological and programmatic needs of the Indian Space

Programme. The centre will act as a facilitator for the promotion of space technology activities in the southern region comprising the states of Karnataka, Andhra Pradesh, Telangana, Tamil Nadu, Puducherry, Kerala and Lakshadweep and will become an ambassador for the capacity building, awareness creation and R & D activities of ISRO, in the region. The activities of RAC-S will be directed to maximize the use of the research potential, infrastructure, expertise and experience already existent in ISRO and NITK, Surathkal. The RAC-S will also facilitate and engage other institutes of excellence in the region to take part in capacity building, awareness creation and R&D activities related to Space Technology, Space Science and Space Applications.

The RAC-S will consist of faculty members and researchers from NITK Surathkal and visiting scientists and experts from ISRO. The activities of the centre will be guided by a Joint Policy and Management Committee (JPMC) consisting of top executives from the two organizations. The JPMC will plan the promotional activities including the research programmes of common interest and periodically review such research programmes and related activities. JPMC will also facilitate collaborative activities between the partner institutions of southern states of Karnataka, Andhra Pradesh, Telangana, Tamil Nadu, Puducherry, Kerala and Lakshadweep. ISRO will provide necessary annual grant, as recommended by the JPMC, to the tune of Rs. 2.00 crores per year for the conduct of R&D projects, promotional activities and administrative expenses.

The joint R&D activity will actively engage students of NITK and partner institutions. While B.Tech and M.Tech students will be engaged in carrying out short term research projects of one year duration, PhD students will be engaged in long term projects of 2-4 years relevant to the advancement of space programme. Eligible students will also receive research fellowships during the project period. The intellectual property generated as part of this research activity will be jointly owned by ISRO and NITK.

The MoU will be signed by Dr P V Venkitakrishnan Director, CBPO, ISRO Bengaluru and Prof. Karanam Umamaheswara Rao, Director, NITK Surathkal. A one day workshop on 'Space Technology Applications' will also be held in NITK after the MoU signing ceremony. Four senior scientists from ISRO will be delivering lectures on the latest R&D work being conducted in ISRO as part of this workshop. They will also interact with faculty members and students of NITK with the aim of motivating students to participate actively in the research projects supported under this Regional Academic centre.

## ***Programme Schedule***

Date: January 03, 2020      Time: 10:00AM

**Venue: Board Room, NITK, Surathkal / Seminar Hall, Main Building**

### **Agenda**

Time in Hrs	Activity	Venue
10:00-10:30 AM	<b>RAC-S MoU signing ceremony</b>	Board Room
10:30-11:00 AM	Interaction with media persons	
11:00-11:30 AM	Tea Break	
11:30 AM- 12:05PM	<b>Inaugural Session – One Day workshop on Space Technology Applications – Venue: Main Seminar Hall</b>	
11:30-11:35 AM	Welcome Address by Prof. U Shripathi Acharya, Dean, Research & Consultancy, NITK	
11:35-11:45 AM	Elaboration of RAC-S activities and Workshop Dr P V Venkitakrishnan, Director, CBPO, ISRO HQ	
11:45-11:50 AM	Message from ISRO Chairman Dr. K. Sivan, Chairman, ISRO/Secretary, DOS – Video mode	
11:50-11:55 AM	Address by Dr. M. A. Paul, Associate Director, RESPOND & AI, CBPO, ISRO HQ	
11:55 AM-12:00 noon	Presidential Address by Prof. Karanam Umamaheshwar Rao, Director, NIT K, Surathkal	
12:00-12:05 noon	Vote of thanks by Prof. M. S Bhat, Coordinator, RAC-S, NITK, Surathkal	
12:05-1:00 PM	Lunch Break	
1:00-2:00 PM	Earth Observation Satellites and Applications	Dr Prakash Chauhan, Director, Indian Institute of Remote Sensing, Dehradun
2:00-3:00 PM	Satellite Navigation	Shri Nilesh M. Desai, Associate Director, SSAA, SAC, Ahmedabad
3:00-3:15 PM	Tea Break	
3:15-4:00 PM	Satellite Communication and its applications	Dr. Prafulla Kumar, Scientist, SATCOM/PO, ISRO HQ
4:00-4:45 PM	Space Science	Dr. V. Girish, Scientist, SSPO, ISRO HQ
4:45 – 5.00PM	Discussions and conclusions	