



**AICTE**

Sponsored

**One Week Online  
FDP - STTP**

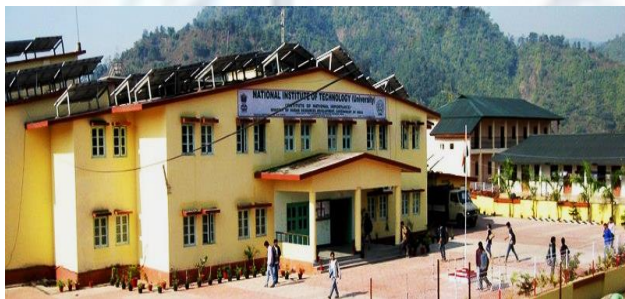
On

**Science and Technology of Advanced  
Materials**

**22<sup>nd</sup>-26<sup>th</sup> February 2021**

**Coordinator:**

**Dr. Pratap Kumar Swain**  
HoD, Basic & Applied Science



**Organized By:**

**Department of Basic & Applied Science**

**NIT Arunachal Pradesh**

**Yupia, Papum Pare, A.P – 791112**



**Patron:**

**Prof. Pinakeswar Mahanta**  
Director, NIT Arunachal Pradesh

**Chairman:**

**Prof. Mihir Kumar Shome**  
Faculty Coordinator of AICTE, FDP-STTP

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**Organizing Committee members:**

- Dr. T. D. Das, Asst. professor, BAS
- Dr. Susanta Maity, Asst. professor, BAS
- Dr. A. V. Kumar, Asst. Professor, BAS
- Dr. K. R. Singh, Asst. Professor, BAS
- Dr. U. K. Saha, Asst. Professor, BAS
- Dr. Shakti Prasad, Asst. Professor, BAS
- Dr. Debjit Dutta, Asst. Professor, BAS
- Dr. A. K. Atta, Asst. Professor, BAS
- Dr. N. K. Pramanik, Asst. Professor, BAS

**Important Dates:**

- The last date of registration is **21<sup>st</sup> February, 2021.**
- The FDP programme starts from **22<sup>nd</sup> February, 2021.**

**Targeted Participants:**

The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Industry and staff of host institutions are eligible to apply for FDP.

**Registration Process:**

Participants interested to attend this program need to make compulsory online registration on the below mentioned Registration link:

<http://forms.gle/ppyquSE4Q8QRwUUc6>

Registration Fees: **NIL.**

The participants will be notified once again one day prior to Programme through E-mail. Link for attending the FDP will be send through the mail.

**Certification:**

E-Certificates will be issued to participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.

**AICTE Academy:**

AICTE is established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity and quality". AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Council understands that there is a need of the day to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies. As part of its activities NIT Arunachal Pradesh along with AICTE will conduct faculty Development Program (FDP) on "Science and Technology of Advanced Material" from 22<sup>nd</sup> to 26<sup>th</sup> February, 2021 at NIT Arunachal Pradesh through online mode.

**About the Institute:**

The National Institute of Technology, Arunachal Pradesh was inaugurated on 18th August, 2010 as a member of a group of ten new NITs. These new NITs were established as centres of excellence in technical education to combat the growing need of technological professionals in India as well as in the World. The Institute has been through

many trials since its establishment in 2010; but ultimately has triumphed over all challenges and is thriving today with more than 700 students on roll and many distinguished members of faculty as well as many good numbers of competent administrative personnel. The vision is to impart quality technical education with strong underpinning of sound knowledge in the domain. Our approach is interactive, informative, innovative and quintessentially holistic. Our main goal is to produce imaginative entrepreneurs, technology leaders of the new millennium and researchers with a profound sense of humanistic and ethical values.

#### About the Department:

**Department of Basic & Applied Science** has been established right at the inception of the institute in 2010. Currently, the Department comprises of disciplines of Physics, Chemistry and Mathematics. The Department has total 10 numbers of faculty members and having specialized in advance areas of Physics, Chemistry and Mathematics. The Department has a rich heritage of teaching and research in the field of aforesaid subjects. The goal of the department is to impart theoretical and practical knowledge to the students in the area of basic and applied Science. The Department aims at setting a benchmark in education in the field of Basic & Applied Science. The class room teaching is made interactive by incorporating various methods of teaching and learning. The Department offers M.Sc programs in Applied Physics. The Department also offers Ph.D program in Physics, Chemistry, Mathematics and Applied Science in order to nurture young minds towards scientific challenges.

#### Objectives of the FDP:

The objective of the FDP program is to provide the in-depth knowledge of advanced materials (modelling, characteristics, synthesis, and characterization) and their applications in various sectors of science and technology.

#### Topics to be Covered

- Fundamentals of materials science and technology: Structural analysis, classification of materials, common characterization techniques.
- composite materials, characterization and applications
- Advanced organic and bio electronics materials: Principle and techniques
- Functional and structural properties of 2D materials and their applications

#### Tentative Resource Persons:

1. Prof. Saurabh Basu, Professor, Dept. of Physics, IIT Guwahati
2. Dr. Manoranjan Kar, Associate Professor, Dept. of Physics, IIT Patna
3. Dr. Jeotikanta Mahapatra, Research Professor, University of Texas, Arlington, USA
4. Prof. Santosh Kumar Mahapatra, Professor, Dept. of Physics, Central Univesity, Punjab, Bathinda.
5. Prof. Sanjeev Kumar, Professor, Dept. of Physics, Rajiv Gandhi University, Arunachal Pradesh.
6. Dr. Prakash Parida, Assistant Professor, Dept. of Physics, IIT Patna
7. Dr. Subrat Das, Senior Scientist, Materials Science and Technology Division, CSIR-NIIST, Thiruvananthapuram, Kerala.

8. Dr. Susanta Kumar Sahoo, Scientist, Materials Science and Technology Division, CSIR-NIIST, Thiruvananthapuram, Kerala.
9. Dr. Susanta Kumar Mohanta, Asst. Professor, Dept. of Physics, Govt. Engineering College, Kalahandi.
10. Dr. A. K. Atta, Asst. Professor, Dept. of BAS, NIT Arunachal Pradesh
11. Dr. Tushar Dhabal Das, Asst. Professor, Dept. of BAS, NIT Arunachal Pradesh

#### Tentative Programme Scheduled

Day	Session-I 10 am – 11.30 am	Session-II 11.45 am - 1.15 pm	Session-III 2.30 pm – 4:00 pm
22/02/2021	Lec-1	Lec-2	Lec-3
23/02/2021	Lec-4	Lec-5	Lec-6
24/02/2021	Lec-7	Lec-8	Lec-9
25/02/2021	Lec-10	Lec-11	Lec-12
26/02/2021	Lec-13	Lec-14	Lec-15



*NIT, Arunachal Pradesh Jote Campus.*