

Shankersinh Vaghela Bapu Institute of Technology

(Affiliated to Gujarat Technological University, Approved by AICTE)

(Gandhinagar-Mansa Road, PO. Vasan, Gandhinagar District, Gujarat, Pin.382650)

www.bapugkv.ac.in

A Report of state level one day workshop on “Advanced Engineering Physics”

(27th March, 2019)

For 1st Year Degree & Diploma
Engineering Students



Organized By

Department of Science & Humanities



Sponsored By

GUJCOST, Department of Science and Technology,

Government of Gujarat-Gandhinagar

Workshop Details

| S. No. | Content | Description |
|--------|--------------------------|---|
| 1. | Title | State level one day workshop on “Advanced Engineering Physics” |
| 2. | Date | 27th March 2019 |
| 3. | Place / Venue | Civil Building Seminar Hall, SVBIT |
| 4. | Introduction & Objective | <p>It was one day workshop on advanced engineering physics, where students were an opportunity to explore in depth knowledge and importance of physics in different engineering discipline. This workshop was conducted in two sessions which included lectures on interesting and useful topic in both basic and advanced physics. This workshop was aimed to make the students familiarize and gain information about the advanced nanotechnology and optical fibre communication system. Apart from academic information of nanotechnology and communication system this workshop imparted the additional information of nanomaterials with different sample preparation techniques, structures and application in recent trends of engineering field.</p> |
| 5. | Description | <p>Nanotechnology is highly interdisciplinary, involving physics, chemistry, biology, material science and the full range of the engineering discipline. This can be a complicated topic with new advances being made on an almost daily basis. In this technology, the materials and devices are manipulated and manufactured on the scale of atoms or small groups of atoms. The nanoscale is typically measured in nanometers, or billionths of a metre and materials built at this scale often demonstrated in distinctive physical and chemical properties due to quantum mechanical effects.</p> <p>For gigabits and beyond gigabits transmission of data, the fiber optic communication is the ideal choice. This type of communication is used to transmit voice, video, telemetry and data over long distances and local area networks or computer networks.</p> |

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| | | <p>Fiber Optic Communication System uses light wave technology to transmit the data over a fiber by changing electronic signals into light.</p> <p>The target audience acquired knowledge of the basic principles, applications, preparation of materials and how it works in our daily life with features of latest nanotechnology and optical fibre communication system by this workshop.</p> |
| 6. | No. of Students & Faculty Members | Total 50 participants of 1 st Year Degree & Diploma Engineering students & faculties have participated in this workshop. |
| 7. | Experts | <ol style="list-style-type: none"> 1. Dr. Sagar Kishor Ambavale, Assistant Professor, Vishwakarma Government Engineering College (VGEC), Ahmedabad 2. Dr. Chetna Chaturbhai Chauhan, Assistant Professor, Nirma University, Ahmedabad |

Glimpse of workshop on Advanced Engineering Physics

Registration for workshop



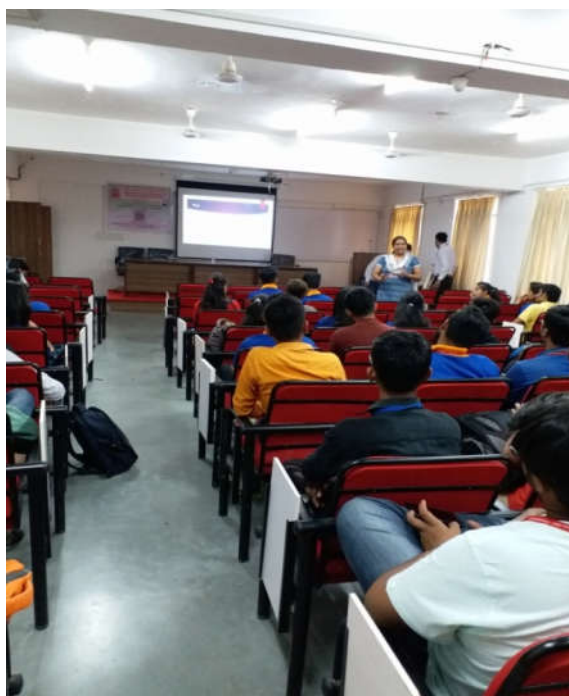
Group Photos during Inauguration of Workshop



Dr. Sagar Ambavale delivered a lecture on recent trends in nanoscience and nanotechnology and interacted with students.



Dr. Chetna Chauhan delivered a lecture on advanced in optical fibre communication system and interacted with students.



Dr.Sagar Ambavale felicitated by Dr. Chintan Jotaniya



Dr. Chetna Chauhan felicitated by Dr. Manisha Chhantbar



Certificate Distribution



Certificate Format:

| | | | |
|---|---|---|---|
|  |  |  | |
| Bapu Gujarat Knowledge Village Shankersinh Vaghela Bapu Institute of Technology DEPARTMENT OF SCIENCE & HUMANITIES | | | |
| <u>CERTIFICATE</u> | | | |
| <p>This is to certify that Mr./Ms. _____ student of _____ has successfully participated in State Level One Day Workshop entitled as "Advanced Engineering Physics" on 27th March 2019 organized by Department of Science and Humanities, held at Shankersinh Vaghela Bapu Institute of Technology, Vasar- Gandhinagar, sponsored by GUJCOST, Department of Science & Technology, Gandhinagar, Gujarat.</p> | | | |
| _____ Prof. Rasik Tanna Coordinator | _____ Dr. Manisha Chhantbar Coordinator & HOD | _____ Dr. Kinjal Adhvaryu Principal | _____ Prof. Ravikumar K. Director |

Workshop Organized by:

1. Dr. Manisha Chhantbar, HOD, Science & Humanities Dept.
2. Prof. Rasik Tanna, Science & Humanities Dept.

Sponsored by:

GUJCOST, Department of Science and Technology, Gandhinagar Gujarat