**Chhotubhai Gopalbhai Patel Institute of Technology**

**Department of Automobile and Mechanical Engineering**

**A Report of one day workshop**

**On**

**“Perspectives on Advanced Material Technologies”**

|  |  |
| --- | --- |
| **Title:**  | Perspectives on Advanced Material Technologies - 2016  |
| **Organizing Department:**  | Department of Automobile and Mechanical Engineering |
| **Chief Patron:**  | Dr. D.R.Shah, Provost UTU.  |
| **Patron:**  | Dr. N. C. Shah, Director, CGPIT.  |
| **Convener:**  | Dr. Chinmay Desai, Professsor, Head of the Department, Department of Mechanical/Automobile Engineering, CGPIT  |
| **Organising Secretary:**  | Mrs. Palak Desai, Assistant Professor Mr. Umang Patel, Assistant Professor  |
| **Organising Committee:**  | Mr. Lalaji Godhani, Assistant Professor Mr. Urvin Patel, Assistant Professor Mr. Haresh Ghoniya, Assistant Professor Mr. Sajan Joshi, Assistant ProfessorMr. Harshit Desai, Assistant ProfessorMr. Mayur Patel, Assistant ProfessorMr. Deep Parekh, Assistant Professor |
| **Institute:**  | C. G. Patel Institute of Technology, Bardoli.  |
| **Targeted Audience:**  | Students, Faculty member and Industrial Persons  |
| **No. of Participants:**  | **Students: 220** **Faculty members: 61** **Industrial persons: 2** **On the spot registration: 00****Total: 283**  |
| **Date of Event:**  | 17th September 2016  |
| **Invited Speakers:**  | Dr. P. B. JoshiDr. Vandana J. RaoDr. Rakesh K. Sharma  |

**Details of Workshop:**

Development of new materials makes the standard of leaving of human being better. Selection of a right material is often the forerunner to the step wise progression of a technology. Advanced materials especially lightweight materials are at the heart of commercial and military purpose. The challenges of the next generation are complex in nature, but these challenges will overcome through developments and application of new or improved materials. This workshop aims at giving overview of advances in materials.

The first lecture was of Dr. P. B. Joshi, the Advisor (Metallurgy) to TCR Advanced Engineering, Vadodara. He delivered his lecture on Advanced Materials for Power Plants. He explained briefly about basics of ferrous materials. He also gave a detailed overview about the advanced material selection for the power plant applications.

The Second lecture was of Dr. Vandana J. Rao, Asssociate Professor, M. S. University, Baroda. She delivered a lecture on Thermal analysis of materials. She spoke on different thermal analysis methods for materials.

The third Lecture was delivered by Prof. Rakesh Sharma working as Assistant Professor, Applied Chemistry Department, M. S. University, Baroda. He delivered lecture on the topic of Polymeric materials for medical instruments. He briefly described about different polymeric materials used in medical applications.

**SCHEDULE**

|  |  |
| --- | --- |
| TIME | **CONTENT**  |
| 8:30 to 10:00 am | Registration & High Tea  |
| 10:00 to 10:30 am | Inauguration  |
| 10:30-11:45 am | **Lecture I:** Advanced Materials for Power Plants |
| 11:45-01:00 pm | **Lecture II:** Thermal analysis of materials  |
| 01:00- 02:00 pm | **Lunch Break**  |
| 02:00-03:30 pm | **Lecture III:** Polymeric materials for medical applications  |
| 03:30-04:00 pm | **Valedictory and Concluding session** |

**Glimpse of the Workshop:**



**Inauguration of the workshop**



**Welcome Speech by Convener**

****

**Expert Lecture –I (Dr. P. B. Joshi)**



**Expert Lecture –II (Dr. Vandana J. Rao)**



**Expert Lecture –III (Dr. Rakesh Sharma)**

****

**Organizing Committee of workshop**