

# DEPARTMENT OF HUMANITIES & SCIENCES



## DEPARTMENT PROFILE

### HUMANITIES AND SCIENCES



VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

FACULTY:		STAFF:	
Professors	: 03	Non – Teaching Staff	: 01
Associate Professors	: 08	Technical Staff	: 03
Assistant Professors	: 38	-----	
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Total Faculty	: 49	-----	
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## Participation of the department in the courses offered by other departments

### MATHEMATICS

- Advanced Calculus
- Computational Methods
- Ordinary Differential Equations & Laplace Transformations
- Probability, Statistics, Queuing Theory
- Probability & Statistics
- Special Functions & Complex Analysis
- Partial Differential Equations & Complex Analysis
- Computer Based Numerical Methods

### PHYSICS

- Engineering Physics
- Advanced Engineering Physics
- Applied Physics
- Physics of Materials
- Engineering Physics Lab

### CHEMISTRY

- Chemistry of Engineering Materials
- Engineering Chemistry
- Engineering Chemistry Lab

### COMMERCE AND MANAGEMENT

- Business Economics and Financial Analysis
- Management Science
- Industrial Management

### ENGLISH

- English
- English Language Communication Skills Lab
- Advanced English Communication Skills Lab
- Gender Sensitization

### ENVIRONMENTAL SCIENCE

- Environmental Science

## Distinctiveness

- Promoting research in Green technology through interdisciplinary research
- H & S Dept. provides an interface between the Alumni and students as well as Alumni and Faculty
- Faculty with Post-doctoral experience
- Majority faculty above 20 years of experience
- Faculty working in emerging research areas (nanoscience, multi-modal pedagogies)
- Distinctiveness □ Six faculty members of the department have
- Six faculty members of the department have been recognised and awarded the top performer award in AICTE Sponsored workshop on ICT methods by IIT Bombay.
- They are now mentors in the Nation-building exercise of training faculty in ICT methods

# CENTRES OF EXCELLENCE

## CENTRE FOR NANO SCIENCE & TECHNOLOGY

The Centre for Nanoscience is established on 14-06-2016 under the Department of Humanities and Sciences as an interdisciplinary platform of both academic and research activities.

**VISION:** To build a centre with excellence in research with global standards and developments in Nanoscience and Technology.

**MISSION:** A true interdisciplinary centre for research in Nanoscience for developing relevant technologies with commitment to social and ethical values & training manpower through undergraduate and graduate courses.

### OBJECTIVES:

- To create sustained research activities in cutting edge Nanoscience and technology.
- To pursue sponsored projects funded by agencies like DST, CSIR, MHRD, MCI, AICTE, UGC & DRDO etc., thereby creating self sustained maintenance.
- To develop partnerships with industry in developing technologies and set up consultancy and technical knowhow hubs.
- To train manpower by offering Ph.D, M.Tech, M.Sc, B.Tech., certificate and diploma courses.



## CENTRE FOR EDUCATION TECHNOLOGY

The Centre for Education Technology started in the year 2016 with an aim to conceptualize the execution and evaluation of the education process, i.e. learning and teaching with application of modern educational teaching techniques. The application of educational technology requires knowledge from several areas: pedagogy, psychology, didactics, computer sciences, informatics etc. So the Centre provides a roadmap to reach the required areas by using different modern teaching pedagogies than the traditional ones. The centre aims in:

- Creating and supporting effective digital-age learning environments to maximize the learning of all students.
- Assisting teachers in using technology effectively for assessing student learning, differentiating instruction, and providing rigorous, relevant, and engaging learning experiences for all students.
- Demonstrating adult learning and leadership and continuously deepening their knowledge and expertise through reflective evaluation.
- Participating in the development and implementation of shared vision for the comprehensive integration of technology to promote excellence.
- Making lessons more engaging, interactive, collaborative, and designed for multiple intelligences.







## Well-equipped Laboratories:

- Engineering Physics Lab
- Engineering Chemistry Lab
- English Communication Skills Lab
- English Language Lab

## Certificate Courses

- Cambridge English Business Certification Course - ESOL Examinations





## Research Areas

Material Sciences
Computational Fluid Dynamics (CFD)
Cryptography
English Language
English Literature
Disaster Management & Mitigation
Human Resource Management
Experimental condensed matter Physics
Synthesis and characterization of nano materials
Organometallic Chemistry



## Recent Guest Lectures & Events

A Guest Lecture By <b>Mr M.Vijay Kumar,</b> CEO, I-WIN IP Services Pvt. Ltd.	“The importance of Intellectual Property Rights on Business”	31.03.2018
A Guest Lecture By <b>Mr. B. Nagesh,</b> Motivational Speaker, NIMHANS	“Motivation, Attitude & Life Skills”.	24.03.2018
A seminar By <b>Mr K.Radha Krishna Shastry,</b> Manager HAL Hyderabad	“Role of materials in mechanical engineering”	27.02.2018
Workshop By H&S Maths Faculty	“Mathematics for Machine Learning”	10.01.2018 to 10.02.2018
A Guest Lecture By <b>Yamini Meduri,</b> Assistant Professor, VJIM. Young Scientist award, recipient from DST.	‘Life skills for Employability’.	19.01.2018
“National Mathematics day” in commemoration of 130th Birth anniversary of Sri Srinivasa-Ramanujan.	A talk by Prof. Kuppuswamy Rao, Retd., Professor, Osmania University	22.12.2017
FDP By <b>Dr E.S.M Suresh,</b> Professor & Head Civil Engineering, NITTTR Faculty members Chennai <b>2. Dr G.Janardhanan,</b> Assoc. Prof, Centre for Environment Management, NITTTR, Chennai	“Instructional Design & Delivery Systems”	11.12.17 to 16.12.17

**“The importance of Intellectual Property Rights on Business”**  
A Guest Lecture By Mr M.Vijay Kumar, CEO, I-WIN IP Services Pvt. Ltd.



**Motivation, Attitude & Life Skills**

A Guest Lecture By Mr. B. Nagesh, Motivational Speaker, NIMHANS



**Life skills for Employability**

A Guest Lecture by Yamini Meduri, Assistant Professor, VJIM.



**Pharmaceutical Industries in Instrumentation Engineering and their Environmental aspects**

Guest Lecture by Ankit Baheti, Senior scientist Formulation R&D Reddy's Laboratories Ltd.



**National Mathematics day**

A talk by Prof. Kuppuswamy Rao, Retd., Professor, Osmania University



**Instructional Design & Delivery Systems**

By  
Dr.E.S.M Suresh, Professor & Head Civil Engineering, NITTTR Chennai  
Dr.G.Janardhanan, Assoc. Prof, Center for Environment Management, NITTTR, Chennai



**Application of Physics in Instrumentation Engineering and its importance in the Industry**

Guest Lecture by Mr.V. Laxma Reddy, Director, IMSE, Hyderabad

