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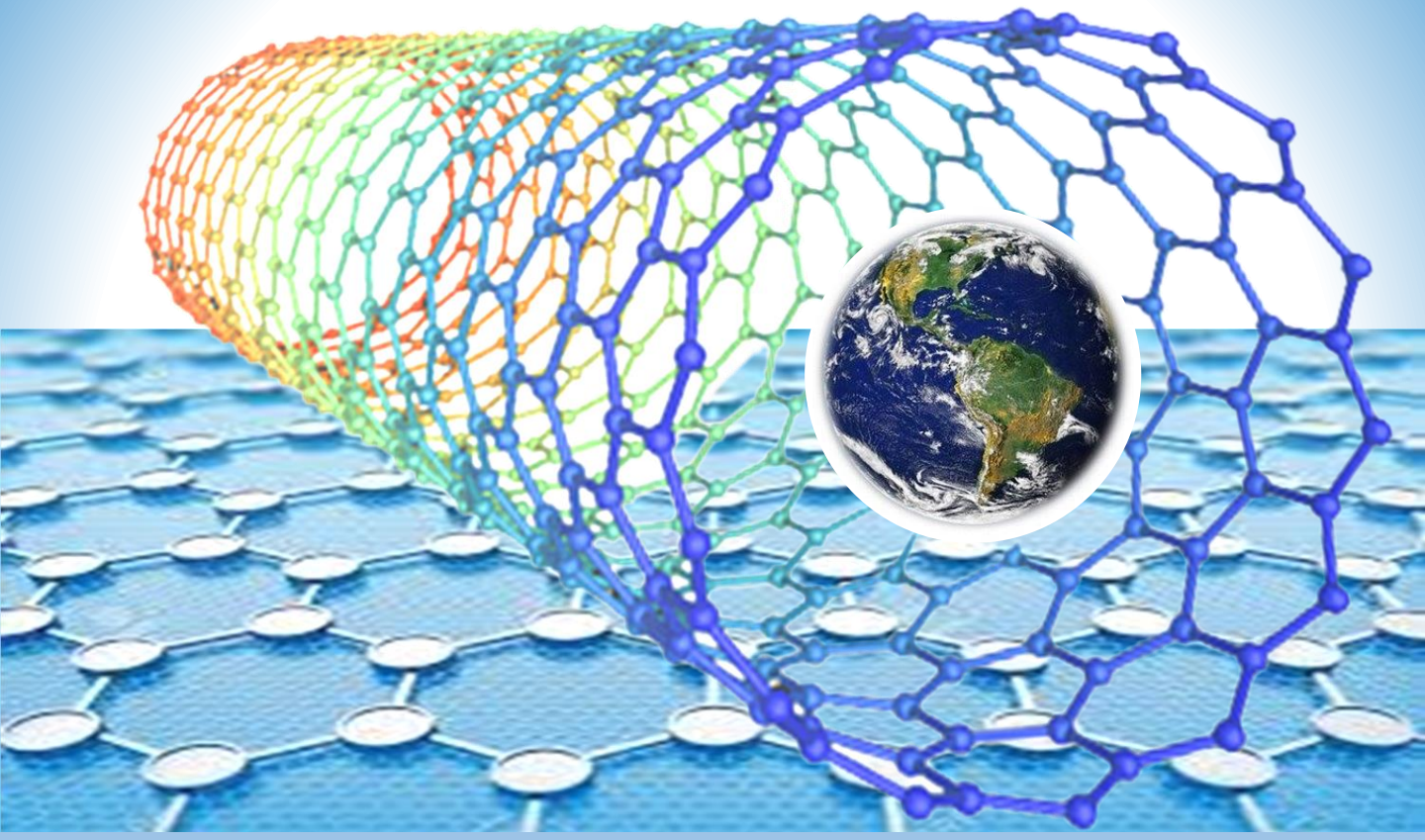
University Of Mysore

CENTRE FOR MATERIALS SCIENCE AND TECHNOLOGY (CMST)

M.Tech in Materials Science



World leading technology towards sustainable development

Manasagangotri, Vijnana Bhavana, Mysore, Karnataka, India - 570006

Moto: Materials for Sustainable Development.

Genesis:

The University of Mysore has started a new job oriented course - M.Tech. in Materials Science with funding and support from University Grants Commission, New Delhi under the banner "University with Potential for Excellence (UPE)" in 2012. The main goal of this UPE scheme is to make the Indian universities as comparable to World-class universities by supporting them to grow further in their chosen areas of teaching, research and development. Centre for Materials Science and Technology born out of this major program undertaken by the University of Mysore with big funding from UGC, New Delhi. UGC's dedicated database Shodh Ganga has indicated that the University of Mysore, is a leading institution in the country in the area of Materials Science. Accordingly, the UGC Expert Committee has recommended to the University of Mysore, to nurture this subject for the future generations and promote this field among the stakeholders and contribute to the generation of specialists in this field. The course content is formulated keeping in mind the demands from Industry and R&D Institutions from India and abroad. The practical training given will well equip the students to pursue higher studies or get entry into Scientific Premier R&D laboratories across the country as well outside the country.This degree is in demand overseas and also has greater industrial job prospects.

Courses:

- M.Tech in Materials Science / M.Sc in Materials Science
- The admission to M.Tech. Course is through an entrance examination and is open to Undergraduate Degree holders from diversified background such as Basic Science Subjects, Engineering, Medical, Agricultural Science, Pharmaceutical Science, and Dental Science.
- M.Tech. in Materials Science Program is of TWO Years for Medical, Pharmaceutical Science, Dental Science, Engineering Students, and M.Sc., Degree holders.
- The course is of THREE Years for students from B.Sc., background. B.Sc., students can have a lateral exit after first four semesters (TWO Years) with M.Sc, Degree in Materials Science.

Salient features:

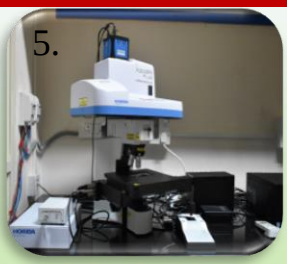
- The Department has hi-tech classrooms equipped with fine furniture's, LCD projectors and separate seminar hall.
- The department has its own library and computer lab
- The senior faculty of these PG Departments and experts from National Laboratories are actively involved in teaching and training the students with the state of the art facilities listed.
- The participating faculty members have proven strength through high-quality publications, trainings and sponsored research projects with national and international collaborations and consultancy services offered at various levels.
- The course content is formulated keeping in mind the demands from industry and R & D institution from India and abroad.
- The M.Tech students are encouraged to work on a chosen Minor and Major projects from 3rd semester onwards. The syllabus at present consists of 13 hard core papers and 23 soft core papers.
- **The UGC's dedicated data base ShodhGanga has indicated that the University of Mysore is a leading institution in the country in the area of Materials Science.**

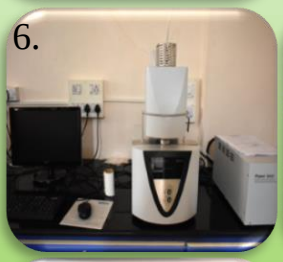
FACULTY PROFILE

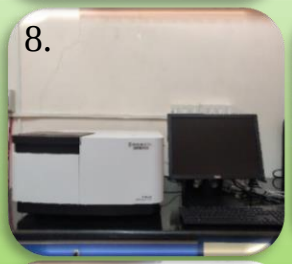
	Name & Designation	Specialisations and Status
	Prof. S. Srikantaswamy, M.Sc., Ph.D Co-ordinator, CMST, Vijnana Bhavan, Manasagangothri, Mysuru. Email: sriswamy@envsci.uni-mysore.ac.in, srikantas@hotmail.com	Materials Science, Nanotechnology, Crystallography, Crystal Growth Environmental Science, (Environmental Earth Science) Biomaterials, Nanomaterials, Carbon polymorphs, Photochemistry.
	Prof. K. Byrappa, M.Sc., Ph.D.,(Moscow) Pro-Vice Chancellor, Adichunchanagiri University, Mandya Email: kbyrappa@gmail.com	Materials Science, Nanotechnology, Crystallography, Crystal Growth, Experimental Mineralogy, Environmental Science, Solid State Chemistry and Solid State Physics.
	Prof. R Somashekar, M.Sc., Ph.D Visiting Professor, CMST, Vijnana Bhavan, MGM Email: rs@physics.uni-mysore.ac.in	Physics, Condensed matter physics, Advanced X-ray crystallography
	Prof. B. Basavalingu, M.Sc., Ph.D Visiting Professor, CMST, MGM Email: bbmysore@yahoo.com	Material Science and Thermodynamics Mineralogy, Petrology
	Prof. K. M. Lokanath Rai, M.Sc., Ph.D Visiting Professor, CMST, MGM Email: kmlrai@yahoo.com	Organic Chemistry, Synthetic Organic Chemistry Nano-chemistry
	Prof. M. Y. Sreenivasa, M.Sc., Ph.D Visiting Faculty, CMST, MGM Email: sreenivasamy@gmail.com, mys@microbiology.uni-mysore.ac.in	Mycology, Molecular mycology and Mycotoxicology
	Dr. Payal, M.Sc., Ph.D. Women Scientist- B, DST, CMST, MGM Email: payalpu_82@yahoo.co.in	Biophysics, osteoporosis, diagnosis, biomaterials characterization, electrical impedance spectroscopy

Conferences organised by CMST

INSTRUMENTATION FACILITIES

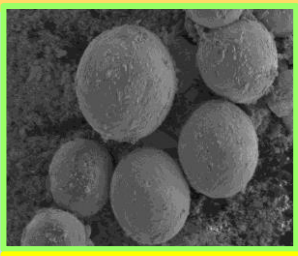
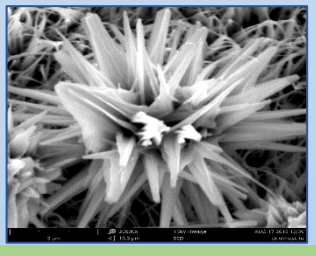
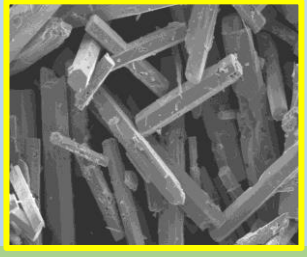






1. X-ray Powder Diffractometer (Japan)
2. Scanning Electron Microscope (Japan)
3. Atomic Force Microscope (Italy)
4. BET Surface area analyser (Japan)
5. Raman Spectroscopy
6. TG/ DTA/DSC System (Switzerland)
7. Particles Size Analyzer (USA)
8. Photoluminescence (PL Spectroscopy)
9. Atomic Absorption Spectroscopy
10. Contact Angle Analyzer FTA 200 (USA)
11. UV-Vis spectrophotometer
12. Magnetic susceptibility
13. Microwave Hydrothermal Reactors (USA)
14. Chemical vapour deposition (CVD)
15. Electrochemical work station (USA)
16. Polarizing Microscope with CCD Camera (Japan)
17. Non-Linear Optics Laboratory set up with Fempto Second Laser (USA)
20. Flow Reactor for SCF technology (USA)
21. Viscometer (USA)
22. Metricon Prism Coupler (USA)

Synthesised Nanostructured Materials

Materials Synthesis laboratory

CMST- Laboratory

CMST-Class room

Seminar hall

For more information
Contact:
The Co-ordinator
Centre for Materials Science and Technology.
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