



बीकानेर तकनीकी विश्वविद्यालय Bikaner Technical University, Bikaner

(State Government Technical vide Act No. 29/2017)
DEPARTMENT OF CERAMIC
University College of Engineering & Technology,
ENGINEERING & TECHNOLOGY
Bikaner

UCET, Bikaner Ceramic

Department

The educational objectives for Ceramic Engineering program are designed to produce competent engineers who are ready to contribute effectively to the advancement of ceramic engineering causes and to accommodate the needs of the community.

Visio

n

“Engage both traditional and emerging field of ceramics, to bring expertise and management skills in technocrats to contribute in industrial and society development”

What is Ceramic Engineering

“ceramics,” people usually think of an image of pottery or space shuttle tiles. Ceramics play an important role almost everywhere besides everyday objects, ceramics are helping computers and other electronic devices operate, improving people's health in various ways, providing global telecommunications, and protecting soldiers during combat. Two major categories of ceramics: Traditional and Advanced. Traditional applications include consumer products like dinnerware or ovenware and construction products like tile or windows. Most of these applications have been in use for many years and therefore markets are mature with single digit growth. Advanced applications take advantage of specific mechanical / electrical / optical / biomedical / chemical properties of glass or ceramic materials and have entered the scene over the last several decades or so.



One category that is sometimes hard to define is refractories. The production of most ceramics and glasses, as well as other commodities like metals, metal alloys, and cement, would not be possible without these refractories.



Learning Activities for Students

- Industrial Tour
- Seminar/Webinar
- Workshop
- Guest Lectures
- Conferences
- Exhibition
- Employability and skill development classes
- Gate Classes
- Research Project

Post-Graduate (PG) –

M. Tech. in Material Science & Engineering is a 2-year full-time post-graduate course divided across 4 semesters.

Department's aim is to serve as a resource center for Material Science and Engineering and to stimulate R&D activities in the technological and commercial development of new products and processes.

Under-Graduate (UG)-

B.Tech in Ceramic Engineering is amongst the specific engineering specializations that cover the production and manufacturing of ceramic products for use in different industries. Being one of the newest fields of engineering, research is one of the major parts of this field.



Laboratory

Equipment

- X-Ray Diffractometer
- Thermal Evaporator
- DTA/TGA
- Dual Source Meter
- Electrochemical Workstation
- Spin Coater
- Ultrasonicator
- High Temperature Furnace
- Dilatometer
- Optical Microscope
- LCR Meter
- UV Visible Spectrophotometer
- Flame Photometer
- Sand Bath
- Conductivity Meter
- Infrared Moisture Balance
- UTM Machine
- CMOR/HMOR
- Deairing Pug Mill
- Ball Mill/Pot Mill/Attrition Mill
- Autoclave
- Sieve Shaker



X-Ray Diffractometer



Spin Coater



Optical Microscope



Thermal Evaporator



Dual Source Meter



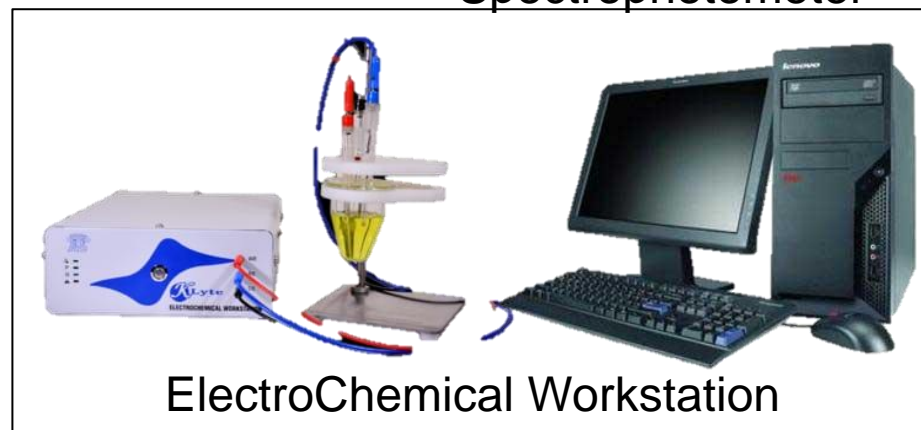
Ultrasonicator



UV Visible Spectrophotometer



DTA/TGA



ElectroChemical Workstation



UTM Machine

FACULTY PROFILE



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