

## Thrust Areas of Research

### **Engineering & Technology Faculty:**

1. Wearable Devices
2. Renewable Energy Sources
3. Sustainable Construction and Building Materials
4. Automotive Research
5. Materials & Manufacturing Technologies
6. Artificial Intelligence in health Sciences
7. Internet of Things
8. Novel antimicrobial and cardioprotective compounds from halophilic microbes
9. Green synthesis of nanoparticles from medicinal plants
10. Nanotechnology
11. VLSI Design & Optimization
12. Digital / Image / Speech Signal Processing
13. Food Processing and equipment Fabrication
14. Computer aided drug designing

### **Medicine:**

15. Antimicrobial resistance among bacterial isolates from hospital samples and environment samples from the community
16. Molecular genetics approaches to understanding infectious disease and inherited diseases.
17. In vivo and In vitro studies on evaluating drug efficacy and toxicity
18. Infertility
19. Coronary Arterial Disease
20. Herbal Medicine
21. Diabetic Mellitus
22. Communicable And Non-Communicable Diseases
23. Lifestyle Disorders And Metabolic Disorders In Coastal Population
24. Nanomedicine for the Control of Microbial Infections.
25. Clinical Efficacy Trials on the Lifestyle Disorders Treated with Homoeopathic Medicines.
26. Animal Experimentation to study the Patho-physiological mechanism of action of Homoeopathic Medicines.

### **Dental:**

27. Oral Cancer
28. Fluorosis
29. Dental Caries
30. Forensic Odontology

**Pharmacy:**

31. Analytical, Bio analytical Method development and Validation
32. Modification and development of drug Delivery System
33. Synthesis, Characterization, evaluations of medicinal compounds, Molecular Docking and Retro Synthesis
34. Pharmacognostical, Pharmacological screening and evaluation of Medicinal plants, isolation of therapeutic active Molecules.

**Physiotherapy:**

35. Sports Physiotherapy

**Nursing:**

36. Non – Communicable Diseases
37. Preventive Obstetrics
38. Newborn & Non – Communicable Diseases and Behavioral problems.
39. Women's Mental Health
40. Epidemiology of communicable & Non – communicable diseases.
41. Reproductive and Child health
42. Oncology Nursing
43. Geriatric Health.
44. Maternal and Child Health

**Allied Health Sciences:**

45. Public health
46. Algal Biotechnology, Bioremediation, CO2 sequestration, Biofuels, Drug discovery, Enzyme technology
47. Myopia, Orthoptics

**SRBS:**

48. Autism disorder and learning disability
49. Electrophysiology
50. Vestibular assessment and rehabilitation

**Arts & Science:**

51. Thin film Solar Cell
  52. Synthetic Organic & Medicinal Chemistry
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