

# **Masters Programme @ IIT Roorkee**

# NIRF #6; QS WU # 400; #1 IIT (International Students)

## Masters in Engineering (Two years)

#### Architecture & Planning

- 1. Master of Architecture
- 2. Master of Urban and Rural Planning

#### Chemical Engineering

- 3. Computer Aided Process Plant Design
- 4. Industrial Pollution Abatement
- 5. Industrial Safety & Hazard Management

### Civil Engineering

- 6. Environmental Engineering
- 7. Geotechnical Engineering
- 8. Hydraulics Engineering
- 9. Geomatics Engineering
- Structural Engineering (with diversification in Bridge Engineering)
- Transportation Engineering (with diversification in Traffic Engineering)

#### Computer Science & Engineering

12. Computer Science & Engineering

#### Centre for Transportation Systems

13. Infrastructure Systems

# Centre of Excellence in Disaster Mitigation & Management

14. Disaster Mitigation & Management

#### Centre for Nanotechnology

15. Nanotechnology

# Centre for Artificial Intelligence and Data Science

- 16. Artificial Intelligence
- 17. Data Science

#### Earthquake Engineering

- 18. Soil Dynamics
- 19. Structural Dynamics
- 20. Seismic Vulnerability and Risk Assessment

#### **Electrical Engineering**

- 21. Instrumentation & Signal
- 22. Electric Drives & Power Electronics
- 23. Power System Engineering
- 24. Systems and Control

#### Electronics & Communication Engineering

- 25. Communication Systems
- 26. RF and Microwave Engineering
- 27. Microelectronics & VLSI Technology
- 28. VLSI for Industry Professional

#### Hydrology

- 29. Surface Water Hydrology
- 30. Ground Water Hydrology
- 31. Watershed Management
- 32. Dam Safety and Rehabilitation

#### Hydro and Renewable Energy

- 33. Alternate Hydro Energy Systems
- 34. Environment Management of Rivers and Lakes

### Mechanical & Industrial Engineering

- 35. Machine Design Engineering
- 36. Production & Industrial Systems Engg.
- 37. Thermal Engineering
- 38. Welding Engineering
- 39. Additive & Joining Technologies
- 40. CAD, CAM & Robotics

## Metallurgical & Materials Engg.

- 41. Industrial Metallurgy
- 42. Materials Engineering

#### Paper Technology

- 43. Pulp & Paper Engineering
- 44. Packaging Technology

#### Polymer and Process Engineering

45. Polymer Science and Engineering

# Water Resources Development & Management

- 46. Irrigation Water Management
- 47. Water Resources Development

#### Biotechnology

48. Bioprocess Engineering

#### Chemistry

49. Advanced Methods of Chemical Analysis

#### **Physics**

- 50. Solid State Electronic Materials
- 51. Photonics

#### Design

- 52. Industrial Design
- 53. Innovation Management

#### Masters in Management Studies (Two Years)

54. Master of Business Administration

# Masters in Science (Two Years)

- 55. Applied Geology
- 56. Chemistry
- 57. Economics
- 58. Mathematics
- 59. Physics
- 60. Biotechnology

#### P.G. Diploma (One Year)

#### Hydrology

61. Hydrology

Water Resources Development & Management

- 62. Irrigation Water Management
- 63. Water Resources Development