



Birla Institute of Technology & Science, Pilani

Hyderabad Campus

Department of Chemical Engineering, BITS, Pilani Hyderabad Campus Ph.D admission in I SEM 2013-14

1. Area(s) of Ph D admission in the I Semester 2013-14:

1. Reaction Engineering; 2. Process Development; 3. Catalysis; 4. Green Processes; 5. Process Intensification; 6. Mechanical Characterisation of Polymers, Fibres and Composites; 7. Micro- and Nano- mechanics of Natural and Manmade cellulose Fibres; 8. Wood and Wood based Composite Materials; 9. Polymer Composites; 10. Vegetable Oils and their Chemical analysis; 11. Solid Waste Management (Recycling, Incineration, Composting) ; 12. Pulp and Paper technology; 13. Polymer Blends; 14. Polymer Rheology; 15. Biomaterials (Product development and characterization); 16. Nanoscience for encapsulation and composite applications; 17. Investigation of processes such as, protein denaturation, liquid-liquid phase separation and glass formation and corresponding secondary relaxation processes; 18. Materials Characterization (dielectrics, specific heat spectroscopy, dynamic mechanical spectroscopy, thermal conductivity and electron microscopy); 19. Petroleum Refining; 20. Waste Water treatment; 21. Separation Technology; 22. Development of Synthetic Resin for Paint Application; 23. Oil Epoxidation; 24. Biofuels and value-added products from Agricultural and Industrial waste; 25. Cell culture process development and optimization for production of bio-pharmaceuticals; 26. Fuel cells; 27. High Energy Batteries; 28. Electrochemical Engineering (Simulation and experiments);

2. Scholarship/assistantship available:

(a) Institute Assistantship: Rs 15400/- p.m. for Higher Degree (M.E./ M. Pharm/ M Phil) holder; Rs 11000/- for First degree (M Sc/ M.A./B.E.) holders.

(b) Project position(s): one JRF (Junior Research Fellow)

Title of project: Development of Synthetic Resin (DST Project)

Fellowship amount: Rs.14000 per month (consolidated)

3. Department plan to admit student under:

a. **Regular students:** student who will devote full-time on Ph D work. Will be considered for assistantship/project fellowship in addition to 90 % waiver in tuition fee.

b. **Part-time Students:** Candidates working in organizations situated close to the campus will be admitted under this scheme. Students will have to complete required course work similar to full-time students as specified by DRC. Such students will be entitled for 80% waiver in tuition fee. They will not be entitled for any assistantship from the Institute.

4. Fee structure: (For the academic year 2013-14):

	Full-Time	Part-Time
Ph D application fees (one time)	1900	1900
Admission fees (one Time)	20200	20200
Tuition fees per semester *	7850 (10% of the total semester fee)	15700 (20% of the total semester fee)
Institute caution deposit	3000	3000
Hostel Fee, Mess & electricity advance, Hostel, ICT, Infra Structure Modernization Fees, student aid fund	Applicable as per campus rules	---

* The above prescribed semester fees is for student admitted in the academic year 2013-14. For these students, the semester, term, and admission fees will be revised upward every year, but will not increase beyond 15% each year (unless the government announces any new levy/tax, which will be passed on to all existing students irrespective of their year of entry.



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