



# TEERTHANKER MAHAVEER UNIVERSITY

(Established under Govt. of U. P. Act No. 30, 2008)

Delhi Road, Moradabad (U.P)

Phone No.: 0591-2476813

E-Mail: [registrar@tmu.ac.in](mailto:registrar@tmu.ac.in) I Website: [www.tmu.ac.in](http://www.tmu.ac.in)

## Department of Chemistry

### Proposal for value-added courses for the UG and PG Students

The present global scenario demands professionally trained graduates and post graduates with a sound knowledge and expertise in the concerned skills. Teerthanker Mahaveer University tides over the expectations of Indian and global market through its relevant and career-oriented courses that focus on quality and excellence. The department of Chemistry gleams in promoting holistic education by integrating wide range of value added courses in to its curriculum. These courses help to develop student's inter personal skill, technical skill and employability skills to meet industrial demands as well as to develop their own interest and aptitudes.

These value-added courses will be conducted by department with the aim to enrich student's knowledge and skills in their field of study. Courses offered are chosen based on current trained, relevance and value in the job market.

Date of starting 20/07/2022

Date of completion 12/08/2022

Total days 20 days

Total hrs 80 hrs.

Sr. No.	Program	Faculty Name
1	Energy and Sustainable Applied Chemistry	Dr. M. K. Chini
2	Awareness of plastic technology	Dr. A. K. Singh
3	Mushroom Cultivation	Dr. Gajendra Kumar

4	Industrial Chemistry and Applications a) Candle Manufacturing b) Soap and detergent manufacturing c) Liquid detergents	Dr. Gajendra Kumar/ Dr. Varun Kumar Singh/ Prof. (Dr.) Asim Ahmad
5	Laboratory Operation Techniques	Dr. Varun Kumar Singh
6	Physicochemical and biological characteristics and water	Dr. Navneet Kumar/ Dr. A.D. Tripathi
7	Bio-fertilizer production	Prof. (Dr.) Asim Ahmad
8	Nanomaterials and applications	Dr. Gandharve Kumar

Registration fee 1000/- for TMU students and 1500/- for outsider

Registration link: [https://docs.google.com/forms/d/e/1FAIpQLSfzlu2Tkco-GMa7gHEsp1SSAkvobF8EJzL6zv5fDb5PVxiNsw/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSfzlu2Tkco-GMa7gHEsp1SSAkvobF8EJzL6zv5fDb5PVxiNsw/viewform?usp=sf_link)

### Short Term Value Added Course Schedule

Session-I: 09:00AM to 11:00 AM Session-II:  
11:15 AM to 01:15 PM

Sr. No	Date	Topic Covered	Instructor
1	20/07/2022	Renewable energy resources: Energy harvesting system: solar cells & solar panels	Dr. M. K. Chini
2	21/07/2022	Energy storage system: Supercapacitors & Batteries	Dr. M. K. Chini
3	22/07/2022	Estimation of TDS, suspended solids and colloidal particles and their separation.	Dr. A.D. Tripathi
4	23/07/2022	Determination of pH and conductivity of water	Dr. A. D. Tripathi
5	25/07/2022	Determination of DO and BOD	Dr. A. D. Tripathi
6	26/07/2022	Sampling of the water samples and there preservation	Dr. Navneet Kumar
7	27/07/2022	Physiochemical studies, determination of pollution load (COD)	Dr. Navneet Kumar
8	28/07/2022	Soap and detergent manufacturing	Dr. Gajendra Kumar
9	29/07/2022	Mushroom Cultivation	Dr. Gajendra Kumar
10	30/07/2022	Types of plastic raw material	Dr. A. K. Singh

11	01/08/2022	Availability of raw material and machine	Dr. A. K. Singh
12	02/08/2022	Molding and blowing of plastic items	Dr. A. K. Singh
13	03/08/2022	Introduction to nanomaterials	Dr. Gandharve Kumar
14	04/08/2022	Pharmaceutical chemistry	Dr. Gandharve Kumar
15	05/08/2022	Nano materials and photo catalytic applications	Dr. Gandharve Kumar
16	06/08/2022	Bio-fertilizer production	Prof. (Dr.) Asim Ahmad
17	08/08/2022	Decomposition of waste in to compost by microorganism.	Prof. (Dr.) Asim Ahmad
18	09/08/2022	Laboratory precautions	Dr. Varun Kumar Singh
19	10/08/2022	Operation Techniques and application of borosilicate glassware and its safety	Dr. Varun Kumar Singh
20	12/08/2022	Calibration of Glassware and standardization of solvents	Dr. Varun Kumar Singh

---