

SYLLABI FOR MASTER OF TECHNOLOGY (POLYMERS)
EXAMINATIONS 2020-2022

SCHEME OF TEACHING AND EXAMINATION

Paper	Sub e!"	Tea!#\$%& Hr' (per) ee*	E%+ Ter,	M\$+ Ter,
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Paper	Sub e!"	Tea!#\$%& Hr' (per) ee*	E%+ Ter,	M\$+ Ter,	T-"a.
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SCHEME OF TEACHING AND EXAMINATION (2020-2022)

Paper	Subject	Teacher(s) & Hr (per week)	E+ Ter,	M+ Ter,	T-a. Mar*
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SYLLABI FOR MASTER OF TECHNOLOGY (POLYMERS)
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SECTION-B

Principle and instrumental details of techniques)

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Books Recommended3

1. Cre5al9 G.S. 1 "umerical Metho s in \$n%ineerin% an Science9 Ehanna Pu+lishers9 ".
<elhi9 2001.
2. Sastry9 S.S. 1 ,ntro uctory Metho s o) "umerical /nalysis9 Prentice Hall o) ,n ia.

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SECTION-B

Control of molecular weight and distributions, gelation phenomena, techniques of polymerization and design of reactors for polymerization reactions, viscosity, dilution, and heat and mass transfer effects in polymer reactors.

Books Recommended

- | | | |
|----------------|---|---|
| 1. > Ian C. | 1 | Principles of Polymerization, Mc Cra5 Hill Goo3 Co. 1910. |
| 2. Throne F.*. | 1 | |

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EXAMINATIONS 2020-2022

Books Recommended

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| 1. Gryson / F. | 1 Plastic Materials / Princeton / F. J. 1J##. |
| 2. \$el / F. / 6\$.8 | 1 \$n / ineer / in / Plastics / / SM / ,nternational / 1J--. |
| 3. Genzamin / 2.P. | 1 Plastic Tooling / Techniques and Applications / McCrae Hill / "e5
lor / 3 / 1J!2. |
| 4. <u+ios / F.H. an
Pri++le / 2.,. 6\$.8 | |

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SECTION-B

Preparation of techno-economic feasibility analysis technical

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Toxic chemicals Maximum allowable concentrations and other standards. Biological threshold limit values.

Mechanical and electrical hazards. Personal protective equipments.

SECTION-B

Dissipative and inflammable substances; a reactive hazards. Fire prevention. Co-housing in industrial environment.

Standard safety procedures and disaster control. Indian legislation on safety and prevention of hazards and safety code.

Case study on typical hazardous industry.

Books Recommended

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3. Zillar & Meritt, Sean & Settle. 1. College Publishers, MS/.
Industrial Methods of Analysis, 1st Edition.
4. Calen, S. 1. Industrial Methods of Chemical Analysis, 5th Edition.
5. Silberstein, M. & Zester & A. 1. Spectrometric Identification of Organic Compounds, 9th Edition.
John Wiley and Sons, Inc. MS/.

Paper Title: POLYMER SCIENCE LABORATORY-1.