

New

M.Sc. Sem. 3&4 (Physical)

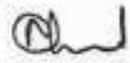
P.G. DEPARTMENT OF CHEMISTRY CO, PO & PSO

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| Programme Outcome | Main outcomes of the programme is students will gains complete knowledge about all fundamental aspects of all the discipline of chemistry like industrial chemistry, medicinal chemistry etc. Students understand the basic concepts, fundamental principals & the scientific knowledge related to different scientific phenomena and their relevancies in the day to day life. |
| Programme Specific Outcome | At the completion of the M.Sc. Chemistry programme, the students will be able to work in the pure interdisciplinary & multidisciplinary areas of chemical sciences & its applications |
| Course | Course Out Comes |
| CHN : 601 | Enable the students to get knowledge of Photochemistry, Adsorption, chemical and physical adsorption, Surfacetension and Langmuir equation, solid state chemistry, General principals, Experimental procedure, Copecipitation as a precursor to solid state reaction, kinetics of solid state reaction. Introduction degree of freedom for Phase equilibrium |
| CHN : 602 | Students will able to update with the ideas of Unit the fundamentals of electro chemistry and numerical. A basic concept of polarization, over voltage. Application of electrolytic oxidation and reduction, strimming potential, Zeta potentials, mechanics of electron, penetration of electrons into classify forbidden reasons |
| CHN : 603 | Students to get sufficient knowledge of Polymer Science. Introduction of Polymer, Kinetics of polymer, Coordination polymerization, Glasstrnsition temperature , relation between Tm, & Tg, The WLF equation methods for determination of glasstrnsition temperature, Polymer reaction and Polymer degradation |
| CHN : 604 | Students able to oprating system of Specrophotometer and its application in Inndustrial base skill for Organic compounds, functional group , ion peak in high ressoluton mass spectrometry. One more technique X-ray Diffraction for chemical analysis using X-ray absorption, liquid crystals, Disc shape liquid crystals, Instrumentation Photoacoustic spectroscopy(PAS) & Photo electron spectroscopy(PES) |
| CHN:605 SE | Students will able to gain knowledge of various Instruments like as Double beam atomic absorption Spectrometer, Fame photometry Instrument, Conductometric PH-measurements |
| CHN: 606 & 607 (Labouratory Course) | Student will gain knowledge of Students will able to gain knowledge of various Instruments like as Spectrophotometer, Potentiometer, Conductometer, PH- meter, Chromatography tecquinec etc |
| CHN : 701 | To enable students with the knowledge of kinetics of Photoperoxidation, mechanism of ene reaction , photosubstitution reaction, Solar energy conversion ans storage, chemiluminescence, chemical kinetics , Spectroscopy study. |
| CHN : 702 | Students will update with the knowledge of Principles of reactivity and selectivity, Structural effects on reactivity ,electrochemical reaction of special ,salvation and solvent effects ,capillary electrophoresis, coulometry and chronopotentiometry, polarography , amperometry |
| CHN : 703 | To enable students to Copolymerisation, step polymerization, crystallinity in polymer, polymer synthesis, rheology of polymer , polymer processing, analysis and testing of polymer, thermal analysis and physical testing |



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| CHN : 704 | To enable students with the knowledge of Chemistr of Nanomaterials applicaton of nanomaterials, Green chemistry of oxidation -reduction saponification ,esterification nuclear chemistry aproches synthesis of radio isotopes of Na and C also application of radio isotopes etc. |
| CHN: 705A-SE | To acquaint knowledge of various types Chromatography such as HPLC,Adsorption Chromatography, Column Chromatography,Gel Permiation, Ion exchange chromatography etc. |
| CHN : 706 & 707 (Laboratory Course) | Student will gain knowledge of Students will able to gain knowledge of various Instruments like as Spectrophotometer, Potentiometer, Conductometer, PH- meter, Chromatography tecquinec etc |


 Convener
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