

Chemical Reaction Engineering Lab Chemicals & Glass Wear Conference Hall Department Building
Department View Instrumentation and Process Control Lab IPC Lab Mass Transfer Operations Lab
Seminar Hall Simulation Lab Welcome to the Department of Chemical Engineering Chemical
engineering encompasses the translation of molecular information into discovery of the new
products and processes. The department of Chemical Engineering was established in the year 2010
to offer four years undergraduate (UG) program to the aspiring students and develop them into
calibrated Engineers and making them useful to the society. Aiming to be a global centre of
academic and research excellence in Chemical engineering sciences. The department has a strong
fundamental curriculum integrated by electives such as Computational Fluid Dynamics,
Nanotechnology, Petroleum Engineering etc. which are main emerging areas and Industry ready
courses. With the 9 faculty members engaged in the cutting-edge research, provides a quality
programs in Chemical engineering education and development. Besides the teaching, the
department is actively engaged in organizing Industrial trips, mandatory summer Internships and live
projects every Academic year. Vision To become the most sought-after center of excellence,
engaged in training and shaping students as professionals for higher education and process
industries, both in India and abroad. Mission Imparting contemporary technical education & training
manpower to create skilled human resource talent pool to serve and manage the process industries
globally with a sense of responsibility towards society and environment.

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NAME OF THE LABORATORY S.No Lab Name 1Simulation lab2Heat transfer lab3Fluid mechanics lab4Mass transfer operations lab5Mechanical unit operations lab6Instrumentation and process control lab7Energy and environmental engineering lab8Analytical and instruments lab9Chemical reaction engineering lab

Process Heat Transfer Laboratory S.No Name of the Experiment 1Composite wall2Natural convection3Forced convection4Emissivity Appartus5Pool boiling 6Thermal conductivity of metal rod7Stefen Boltzman Apparatus8Thermal conductivity of liquids9Shell & Tube Heat exchanger Mechanical unit operation Laboratory S.No Name of the Experiment 1Jaw crusher2Ball mill3Batch sedimentation4Gyratory sieve shaker5Planatry Ball mill6Sieve shaker (R-vibrated)7Viscometer 8Compresser9Cyclone sepatator10Froth Flotation cell11Plate and Frame filter press Mass transfer operations Laboratory S.No Name of the Experiment 1Gas diffusion2Simple batch distillation3Steam distillation4Rotary Dryer5Solid Liquid Extraction6Ion Exchange7Packed bed distillation8Liquid liquid extraction 9Cooling tower10Continuance Distillation column11Absorption column12Adsorption column Instrumentation and Process Control Laboratory S.No Name of the Experiment 1Calibration of thermocouples2Calibration of differential pressure transmitter3Interacting Non Interacting Systems4Level control trainer5Flow control trainer6Pressure control Trainer7Temperature control trainer 8Study of I/P Converter9Flapper Nozzle system10Control valve characteristics11Process simulator Fluid mechanics Laboratory S.No Name of the Experiment 1Centrifugal pump apparatus2Reynolds apparatus3Weirs & Notches4Rota meter5Venture meter6Orifice meter7Frictional losses in pipe Chemical Reaction Engineering Laboratory S.No Name of the Experiment 1Isothermal CSTR2Isothermal Batch Reactor3RTD Studies in PFR4RTD Studies in CSTR5CSTRS in series6Tubular Reactor7Fixed Bed catalysis Analytical and Instruments Laboratory & EE Lab S.No Name of the Experiment 1Gas chromatography2HPLC(Liquid Chromatography)3Calorimeter (Parr 6200)4Turbidity meter (micro 1000)5EC/TDS/NaCl meter (HI 2300, HANNA Instruments)6UV/Visible Spectrometer7Infrared moisture analyzer(Sartorius)8Oil bath9PH meter(ADWA,AD1000)10DO/BOD Meter(HANNA instruments)11Hot air oven(METSAR) 12Magnetic stirrer (HANNA instruments)13BOD incubator(METSAR)14Over head stirrer15Digital orbital shaker16Muffle furnace17Vacuum

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