Madhav Institute of Technology & Science, Gwalior

(A Govt. Aided UGC Autonomous & NAAC accredited Institute Affiliated to RGPV, Bhopal)

Chemical Engineering

Course Outcomes (COs) of theory & lab courses under Flexible Curriculum of 2021 admitted batch:

II Semester

After the completion of this course, Students will be able to

Chemical Process Calculations (170211)	CO1	**Explain** different unit system, basic mass volume relationship, conversion of units
	CO2	**Classify** ideal and non –ideal gases
	CO3	**Solve** energy balance problems
	CO4	**Analyze** the recycle, bypass, and purge calculations
	CO5	**Estimate** the raw material requirement for synthesis of a chemical product based on stoichiometry
	CO6	**Estimate** the performance of chemical equipment using material and energy balance

Chemical Process Calculations Lab (170211)	CO1	**Explain** the boiling point variation with concentration of solute
	CO2	**Infer** the relation of dry and wet bulb Thermometer with humidity
	CO3	**Interpret** the humidity charts to find the psychrometric properties and energy balance
	CO4	**Apply** the material balance of urea solution
	CO5	**Apply** the material balance in the Crystallization of copper sulphate solution
	CO6	**Perform** the material balance by Combustion analysis coal

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Energy, Environment, Ecology & Society (100015)	CO1	**Describe** various energy resources, their conversion to electrical power and role in technological & economic development.
	CO2	**Update** with national/international power status and renewable power development targets & missions.
	CO3	**Recognize** the impact of pollution on the ecosystem and control policies adopted at national/international levels.
	CO4	**Illustrate** the concepts of ecosystems and their conservation.
	CO5	**Solve** practical problems of society in a sustainable and ethical manner.
	CO6	**Fulfill** professional duties keeping in mind the environmental safety, health, and welfare of public.