




JSS MAHAVIDYAPEETHA
JSS ACADEMY OF TECHNICAL EDUCATION, BENGALURU
DEPARTMENT OF CHEMISTRY

**Course Level Content beyond Syllabus
Assessment Year 2021-2022 (ODD Semester)**

Sl No	Course Name & Code	CO	Gaps Identified	Action Taken	% Of Students	Mapping with PO
1	Engg. Chemistry theory (21CHE12)	CO1	Basic principles of Electrochemistry including Faraday's laws	Covered in the class as a bridge course	95%	PO1, PO2, PO3 & PO7
2	Engg. Chemistry theory (21CHE12)	CO2	Control of corrosion by proper selection and design of materials	Covered in the class	95%	PO1, PO2, PO3, PO7
3	Engg. Chemistry theory (21CHE12)	CO2	Surface preparation of metals and electroplating of Cu	Demonstration of electroplating in the lab	95%	PO1, PO2, PO3, PO7
4	Engg. Chemistry theory (21CHE12)	CO5	Practical aspects of volumetric analysis	Covered in the lab	95%	PO1, PO2, PO3, PO5, PO7
5	Engg. Chemistry Lab (21CHEL16)	CO3	Conductometric determination of strong acid by using strong base	Covered in the lab	100%	PO1, PO2, PO3, PO5


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Course Level Content beyond Syllabus
Assessment Year 2021-2022 (EVEN Semester)

Sl No	Course Name & Code	CO	Gaps Identified	Action Taken	% Of Students	Mapping with PO
1	Engg. Chemistry theory (21CHE22)	CO1	Basic principles of Electrochemistry including Faraday's laws	Covered in the class as a bridge cour	95%	PO1, PO2, PO3 & PO7
2	Engg. Chemistry theory (21CHE22)	CO2	Control of corrosion by proper selection and design of materials	Covered in the class	95%	PO1, PO2, PO3, PO7
3	Engg. Chemistry theory (21CHE22)	CO2	Surface preparation of metals and electroplating of Cu	Demonstration of electroplating in the lab	95%	PO1, PO2, PO3, PO7
4	Engg. Chemistry theory (21CHE22)	CO5	Practical aspects of volumetric analysis	Covered in the lab	95%	PO1, PO2, PO3, PO5 PO7
5	Engg. Chemistry Lab (21CHEL26)	CO3	Conductometric determination of strong acid by using strong base	Covered in the lab	100%	PO1, PO2, PO3, PO5


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**Course Level Content beyond Syllabus
Assessment Year 2022-2023 (ODD Semester)**

Sl No	Course Name & Code	CO	Gaps Identified	Action Taken	% Of Students	Mapping with PO
1	Chemistry for CSE stream (BCHES102)	CO3	Galvanic cell construction, Notation & convention, HDL theory	Covered in a class as a Bridge course	95%	PO1, PO2, PO3, PO5
2	Chemistry for CSE stream (BCHES102)	CO3	Factors affecting corrosion rate	Covered in class	95%	PO1, PO2, PO3, PO5
3	Introduction to Nanotechnology (BETCK105C)	CO1	XRD Analysis through origin & FTIR Analysis by giving data	Covered in the class	100%	PO1, PO2, PO3, PO9, PO10
4	Introduction to Nanotechnology (BETCK105C)	CO2	Visualization/Sensitization of the characterization tools for the nanomaterials	Visited Centre for Nanoscience & Engineering (CeNSE), IISc, Bengaluru	100%	PO1, PO2, PO3

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Assessment Year 2022-2023 (EVEN Semester)

Sl No	Course Name & Code	CO	Gaps Identified	Action Taken	% Of Students	Mapping with PO
1	Chemistry for Electrical and Electronics Engineering stream (BCHEE202)	CO3	Factors affecting corrosion rate	Covered in class	95%	PO1, PO2, PO3, PO5
2	Chemistry for Electrical and Electronics Engineering stream (BCHEE202)	CO5	Galvanic cell construction, Notation & convention, HDL theory	Covered in a class as a Bridge course	95%	PO1, PO2, PO3, PO5, PO7
3	Chemistry for Mechanical Engineering stream (BCHEM202)	CO1	Working of IC engine & CI engine, knocking, cracking, reforming	Covered in class	98%	PO1, PO2, PO3, PO7
4	Chemistry for Mechanical Engineering stream (BCHEM202)	CO2	Factors affecting corrosion rate	Covered in class	98%	PO1, PO2, PO3, PO7
5	Chemistry for Civil Engineering stream (BCHEC202)	CO2	Galvanic cell construction, Notation & convention, HDL theory	Covered in class	95%	PO1, PO2, PO3, PO5
	Chemistry for Civil Engineering stream (BCHEC202)	CO2	Factors affecting corrosion	Covered in class	95%	PO1, PO2, PO3, PO5

4	Biology for the Engineers (21BE45)	CO1	General Introduction to the Biomolecules and their Importance	Covered in class	100%	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12
5	Biology for the Engineers (21BE45)	CO4	3D printing lab visit/ Showing the video on demonstration of the 3D printing	Covered in class	100%	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12


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**Course Level Content beyond Syllabus
Assessment Year 2023-2024 (ODD Semester)**

Sl No	Course Name & Code	CO	Gaps Identified	Action Taken	% Of Students	Mapping with PO
1	Chemistry for CSE stream (BCHES102)	CO3	Galvanic cell construction, Notation & convention, HDL theory	Covered in a class as a Bridge course	95%	PO1, PO2, PO3, PO5
2	Chemistry for CSE stream (BCHES102)	CO3	Factors affecting corrosion rate	Covered in class	95%	PO1, PO2, PO3, PO5

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Course Level Content beyond Syllabus
Assessment Year 2023-2024 (EVEN Semester)

Sl No	Course Name & Code	CO	Gaps Identified	Action Taken	% Of Students	Mapping with PO
1	Chemistry for Electrical and Electronics Engineering stream (BCHEE202)	CO3	Factors affecting corrosion rate	Covered in class	95%	PO1, PO2, PO3, PO5
2	Chemistry for Electrical and Electronics Engineering stream (BCHEE202)	CO5	Galvanic cell construction, Notation & convention, HDL theory	Covered in a class as a Bridge course	95%	PO1, PO2, PO3, PO5, PO7
3	Chemistry for Mechanical Engineering stream (BCHEM202)	CO1	Working of IC engine & CI engine, knocking, cracking, reforming	Covered in class	98%	PO1, PO2, PO3, PO7
4	Chemistry for Mechanical Engineering stream (BCHEM202)	CO2	Factors affecting corrosion rate	Covered in class	98%	PO1, PO2, PO3, PO7
5	Chemistry for Civil Engineering stream (BCHEC202)	CO2	Galvanic cell construction, Notation & convention, HDL theory	Covered in a class as a Bridge course	95%	PO1, PO2, PO3, PO5

	Chemistry for Civil Engineering stream (BCHEC202)	CO2	Factors affecting corrosion	Covered in class	95%	PO1, PO2, PO3, PO5
4	Biology for the Engineers (BBOC407/BBOK407)	CO1	Why biology for Engineers	Covered in class	100%	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12


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