

JSS ACADEMY OF TECHNICAL EDUCATION, BENGALURU DEPARTMENT OF CHEMISTRY

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

CI	Caura Nama	CO	Cana Identified	Action Taken	% Of	Mapping with
Sl No	Course Name	CO	Gaps Identified	Action Taken	Students	PO PO
1	& Code 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)		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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SI	Course Name	CO	Gaps Identified	Action Taken	% Of	Mapping with
No	& Code	CO	Gaps Identified	Action Taken	Students	PO
1	Engg. Chemistry theory (21CHE22)	COI	Basic principles of Electrochemistry including Faraday's laws	of as a bridge cour Electrochemistry including		PO1, PO2,PO3 &PO7
2	Engg. Chemistry theory (21CHE22)	Engg. Control of Cover Chemistry theory CO2 proper selection		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	СО	Gaps Identified	Action Taken	% Of Students	Mapping with PO
1	Chemistry for CSE stream (BCHES102)	CO3	Galvanic cell construction, Notation & Description, 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, Bengluru	100%	PO1, PO2, PO3

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

Sl	Course Name &	CO	Gaps	Action	% Of	Mapping with PO
No	Code		Identified	Taken	Students	
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 & Eamp; 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 & Eamp; convention, HDL theory	Covered in class		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)	COI	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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JSS ACADEMY OF TECHNICAL EDUCATION, BENGALURU DEPARTMENT OF CHEMISTRY

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

SI No	Course Name & Code	СО	Gaps Identified	Action Taken	% Of Students	Mapping with PO
1	Chemistry for CSE stream (BCHES102)	CO3	Galvanic cell construction, Notation & Description, 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	Course Name & Code	СО	Gaps	Action	% Of	Mapping with PO
No	course realine & cour		Identified	Taken	Students	Mapping with 10
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 & Eamp; 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 & amp; 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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