

ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(UGC AUTONOMOUS)
(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC)
SANGIVALASA 531 162, BHEEMUNIPATNAM MANDAL, VISAKHAPATNAM DIST
DEPARTMENT OF CHEMICAL ENGINEERING

Details of Innovative and Collaborative Teaching Methodologies

Academic Year:2022-23

S.No	Name of Faculty	Class & Section	Semester	Name of the Course	Course Code	Innovative/Collaborative teaching methods used	Links if any
1	Mr. M. Koteswara Rao	III/IV	II	PDC	CHE324	Problem solving through coding	https://drive.google.com/file/d/1XbGQ8bBloDs2a6x_ztOB_Xui20KX1Yaq/view?usp=sharing https://drive.google.com/file/d/1BpTiAh1JMNJqWnjyWT3omz3mbstL6R5w/view?usp=sharing https://drive.google.com/file/d/1tFzuEG_LOrc3M-0gAjEC0m-n6EmW2JqG/view?usp=sharing
2	Dr. R. Srikanth	II/IV	II	NMCE	CHE 225	Activity of python coding for Numerical Methods	https://drive.google.com/drive/folders/1QcqNPInPgZSoD7ZDuuGKbolrVYiEhezbu?usp=drive_link
3	Dr. R. Srikanth	III/IV	II	IPC	CHE 325(A)	Seminar Presentations	https://drive.google.com/drive/folders/1PWflc4kLEr6sPXz0TvrwWsxpeM6jVqxj?usp=drive_link
4	Dr. Ch. Anil	II/IV	II	Design Thinking	CHE 226 (C)	Activity for students to analyze the situation in decision making and design and animated videos for understanding design thinking concepts in an effective manner	https://drive.google.com/drive/folders/1kqYoXhqXQzA6YMXMtKrE93cn00VjDUqv?usp=sharing https://www.youtube.com/watch?v=r0VX-aU_T8
5	Dr. Ch. Anil	III/IV	II	MSE	CHE 326 (A)	Activity for students to construct the crystal structures	https://drive.google.com/drive/folders/1OiGGgzu7rEHmHXSOWv239DWPPhycJ4aqR?usp=sharing
6	B. Pradeep Santosh Kumar	III/IV	II	Chemical Reaction Engineering-I	ChE 323	Animated Videos related to ideal reactors and Simulation Based Learning-Python Coding	https://drive.google.com/drive/folders/1U4_TiaCDvHVMVUDquu2fxxD4lt2gLCoav https://www.youtube.com/watch?v=O9KEvNovFxY https://www.youtube.com/shorts/8ZT0ZGGrm4I https://www.youtube.com/watch?v=sSjn7doP550

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7	S.Harika	II/IV	II	Momentum Transfer	ChE 222	Animated Videos related to Flowmeters	https://www.youtube.com/watch?v=oo3Ss1L3KUg https://www.youtube.com/watch?v=TSXS4FqzxAQ https://www.youtube.com/watch?v=qSnh2-IoNs8
8	S.Harika	II/IV	II	Momentum Transfer	ChE 222	Model making & Explanation	https://drive.google.com/file/d/1k22zR9rTCWPda1XvJYAJ-XrkVDg994BM/view?usp=sharing https://drive.google.com/file/d/1bZokdkhh3jZSkKpfFrjIaUtgKaBkiRLg/view?usp=sharing
9	Dr. K. China Malakondaiah	III/IV	II	MT-II	CHE 322	LLE Problem Solver by Excel	https://docs.google.com/spreadsheets/d/1Znpl5g6vN1NBn5BgWJVba5IaC2p8ps3v/edit?usp=drive_link&oid=115409160933473292240&rtpof=true&sd=true
10	S.Harika	III/IV	I	Heat Transfer	ChE 313	Model making & Explanation	https://drive.google.com/file/d/1D-fTE_rYpcsGmbFikLdaMcRbj4mWRY0n/view?usp=sharing
11	S.Harika	III/IV	I	Heat Transfer	ChE 313	Flipped Classroom	https://drive.google.com/file/d/1uBStpHKte9gZ7QpW_S_wi4IPK6r5qrYh/view?usp=sharing https://drive.google.com/file/d/1gfUCcZ7pGpT_9HYpqYvu5OQ6WG12Mql6/view?usp=sharing
12	Dr. R. Srikanth	III/IV	I	EE	CHE 316(D)	Experiential learning by Project	https://drive.google.com/drive/folders/1BUPsPUdAGGFbO8MXPpD7Zpxg0DUSSJgC?usp=drive_link
13	Dr. Ch. Anil	IV/IV	I	Transport Phenomena	CHE 413	Activity for students in MS Excel to plot velocity, temperature and concentration	https://drive.google.com/drive/folders/15KVIvLcFMDnjqU5_jO7QeyxjTGUPvXa0?usp=sharing
14	Dr. Anjali	I/IV	I	Introduction to chemical engineering	CHE115	Role play, Lab demonstration, Animated videos of ball mill, pumps, heat exchangers, evaporators	https://drive.google.com/drive/folders/1HjF8N6qVZMADoUfRWaWx7Qx1u4Wyg-M https://www.youtube.com/watch?v=oo3Ss1L3KUg https://www.youtube.com/watch?v=N7iIzKA5xh8&t=1s https://www.youtube.com/watch?v=wTLBb_bBhJs https://www.youtube.com/watch?v=o0HjkMSgn6k https://www.youtube.com/watch?v=MdDbxktvecg https://www.youtube.com/watch?v=OyQ3SaU4KKU https://www.youtube.com/watch?v=br3gkrXTmdY https://www.youtube.com/watch?v=c9HdoCZNITg

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15	Dr. K. China Malakondaiah	IV/IV	I	Chemical Process Economics and Equipment Design		Excel shee to understand the Equated Monthly Installment (EMI) calculations	https://docs.google.com/spreadsheets/d/1XyPpubSv696qNVK10ZLIB_tH5mk5bQbN/edit?usp=sharing&oid=100247362944819107641&rtpof=true&sd=true
16	Mr. M. Koteswara Rao	III/IV	I	Chemical Technology	CHE 315	Animated videos	https://www.youtube.com/watch?v=yVuyXxsmduI&t=1s https://www.youtube.com/watch?v=XdAEi1PHayM&t=3s
						Model making & Explanation	https://drive.google.com/file/d/1ZpDvTNKfmwIteiCDoWeF5WiXLEh3LuLC/view?usp=sharing
						Flipped Classroom	https://drive.google.com/file/d/1ZujXZ9GxiQENimUHCaBcD1B2kVeNNGj/view?usp=sharing
17	Mr. B. Pradeep Santosh Kumar	III/IV	I	Mass Transfer-I	CHE 314	Animated videos to show Gas-Liquid separation operation equipments	https://www.youtube.com/watch?v=OQv-Tr-k5Ic https://www.youtube.com/watch?v=PnaaXAxfc8 https://www.youtube.com/watch?v=VNsBFQ8LHqM
18	Mr. B. Pradeep Santosh Kumar	IV/IV	I	CRE-II	CHE412	Seminar	https://drive.google.com/drive/folders/1cvx9ac8boM9yrZoeOcnaValU8AzPv8rG
19	Dr. R. Srikanth	III/IV	I	EE	CHE 316(D)	Seminar Presentations	https://drive.google.com/drive/folders/1BUPsPUdAGGFbO8MXPpD7Zpxg0DUSSJgC?usp=drive_link
20	S.Harika	III/IV	I	Heat Transfer	ChE 313	Animated Videos related to Evaporators & Heat	https://www.youtube.com/watch?v=N7iIzKA5xh8&t=1s https://www.youtube.com/watch?v=wTLBb_bBhJs