

**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 Methodolgies**

**Academic Year:2023-24**

S.No	Name of Faculty	Class & Section	Semester	Name of the Course	Course Code	Innovative/Collaborative teaching methods used	Links if any
1	Dr. Ch. Anil	III/IV	II	MSE	CHE 326 (A)	Activity for students to construct the crystal structures using spheres	<a href="https://drive.google.com/drive/folders/1cYUUww8Jj08UscNNvoqZA94MgbdT-WUX?usp=sharing">https://drive.google.com/drive/folders/1cYUUww8Jj08UscNNvoqZA94MgbdT-WUX?usp=sharing</a>
2	Mr. B. Pradeep Santosh Kumar	III/IV	II	CRE-I	CHE323	Role Play, Problem solving with Python Code and Lab Demonstration	<a href="https://drive.google.com/drive/folders/1U4_TiaCDvHmVUDquu2fxxD4lt2gLCoav">https://drive.google.com/drive/folders/1U4_TiaCDvHmVUDquu2fxxD4lt2gLCoav</a>
3	Dr. K. China Malakondaiah	III/IV	II	HT	CHE 313	Problem solving with using coding, presentations in flipped class room and Model Making	<a href="https://drive.google.com/drive/folders/1cot5kHQ2cYTS_ZHBC0vhD8oYODY6ZC_Sw?usp=drive_link">https://drive.google.com/drive/folders/1cot5kHQ2cYTS_ZHBC0vhD8oYODY6ZC_Sw?usp=drive_link</a>
4	S.Harika	III/IV	II	I.P.C	CHE 325 (E)	Animated Videos related to Nutrient cycles	<a href="https://www.youtube.com/watch?v=tPz59t5vE8k">https://www.youtube.com/watch?v=tPz59t5vE8k</a> <a href="https://www.youtube.com/watch?v=LbBgPekjiyc">https://www.youtube.com/watch?v=LbBgPekjiyc</a> <a href="https://www.youtube.com/watch?v=Cg1ern-3QBw">https://www.youtube.com/watch?v=Cg1ern-3QBw</a> <a href="https://www.youtube.com/watch?v=TNTTJ4N3kIE">https://www.youtube.com/watch?v=TNTTJ4N3kIE</a>
						Flipped class Presntations	<a href="https://drive.google.com/drive/folders/1v88IJ3Sma-en_d4Akukq-iSRiT0cNfQW">https://drive.google.com/drive/folders/1v88IJ3Sma-en_d4Akukq-iSRiT0cNfQW</a>
5	Dr. K. China Malakondaiah	II/IV	II	PT	CHE226 (A)	Animated videos for better undstanding	<a href="https://drive.google.com/drive/folders/1lm-qGgPitgJOrMOBmhqm_0XBDB_hgaOT?usp=drive_link">https://drive.google.com/drive/folders/1lm-qGgPitgJOrMOBmhqm_0XBDB_hgaOT?usp=drive_link</a>
6	Dr. K. China Malakondaiah	III/IV	II	MT-II	CHE 322	Modern tool for caclulations and model	<a href="https://drive.google.com/drive/folders/1ofeYrCQOaQ154UFjXUOd2fB1VgrvgURB?usp=drive_link">https://drive.google.com/drive/folders/1ofeYrCQOaQ154UFjXUOd2fB1VgrvgURB?usp=drive_link</a>
7	Dr.Anjali Dasari	III/IV	II	PDC	CHE 324	Flipped class room and problem solving by coding	<a href="https://drive.google.com/drive/folders/1F0kxluhoJf4cBbnq2-XTwNt4ymHPpeQA?role=writer">https://drive.google.com/drive/folders/1F0kxluhoJf4cBbnq2-XTwNt4ymHPpeQA?role=writer</a> <a href="https://drive.google.com/drive/folders/1TnVrp6xtCWYzERHIG1fDwEV79RaOMtKX">https://drive.google.com/drive/folders/1TnVrp6xtCWYzERHIG1fDwEV79RaOMtKX</a>
8	Dr.Anjali Dasari	II/IV	II	MMT	CHE 222	problem solving by coding,Lab demonstration, animated videos	<a href="https://drive.google.com/drive/folders/1ICXjns1NzTtc7DkUH4G7zRmWUaf5EIhM">https://drive.google.com/drive/folders/1ICXjns1NzTtc7DkUH4G7zRmWUaf5EIhM</a> <a href="https://drive.google.com/drive/folders/1tChIM5STehytqrjgFvNb8V6IsvEj_toi">https://drive.google.com/drive/folders/1tChIM5STehytqrjgFvNb8V6IsvEj_toi</a> <a href="https://www.youtube.com/watch?v=BaEHVpKc-1Q">https://www.youtube.com/watch?v=BaEHVpKc-1Q</a> <a href="https://www.youtube.com/watch?v=g24LIRdup0M">https://www.youtube.com/watch?v=g24LIRdup0M</a> <a href="https://www.youtube.com/watch?v=78LjQGr1YK4">https://www.youtube.com/watch?v=78LjQGr1YK4</a> <a href="https://www.youtube.com/watch?v=TSXS4FqzxAQ">https://www.youtube.com/watch?v=TSXS4FqzxAQ</a>

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9	Dr. R. Srikanth	II/IV	II	NMCE	CHE 225	Activity of coding of Numerical Methods	<a href="https://drive.google.com/drive/folders/1gvedasx4q0SRpjkJLg1xvVThdkVGmnOq?usp=drive_link">https://drive.google.com/drive/folders/1gvedasx4q0SRpjkJLg1xvVThdkVGmnOq?usp=drive_link</a>
10	Mr. B. Pradeep Santosh Kumar	I/IV	II	MSE	23CH3101	Model Making and Chart Preparation	<a href="https://drive.google.com/drive/folders/1kodl_uwCyIIns-wwTOMWmNq12eiiY3R9">https://drive.google.com/drive/folders/1kodl_uwCyIIns-wwTOMWmNq12eiiY3R9</a>
11	Dr. Ch. Anil	III/IV	I	CETD	CHE 312	Activity for students in Python to solve numerical problems	<a href="https://drive.google.com/drive/folders/1x9mY3IPV1Uj3BBAeLMVEQablZMRjxWM-?usp=drive_link">https://drive.google.com/drive/folders/1x9mY3IPV1Uj3BBAeLMVEQablZMRjxWM-?usp=drive_link</a>
12	Dr. Ch. Anil	IV/IV	I	TP	CHE 413	Activity for students to plot velocity, temperature and concentration profiles in excel	<a href="https://drive.google.com/drive/folders/1x_5tZ58Odb9NFcI56-XaXkomkY2ugxDM?usp=drive_link">https://drive.google.com/drive/folders/1x_5tZ58Odb9NFcI56-XaXkomkY2ugxDM?usp=drive_link</a>
13	Mr. B. Pradeep Santosh Kumar	III/IV	I	MT-I	CHE314	Flipped Class Room and Python Code	<a href="https://drive.google.com/drive/folders/1NaZ5X5vVIzywZf0JrFprS-xxrgeIXYHD">https://drive.google.com/drive/folders/1NaZ5X5vVIzywZf0JrFprS-xxrgeIXYHD</a>
14	Mr. B. Pradeep Santosh Kumar	IV/IV	I	CRE-II	CHE412	Seminar	<a href="https://drive.google.com/drive/folders/1cvx9ac8boM9yrZoeOcnaValU8AzPv8rG">https://drive.google.com/drive/folders/1cvx9ac8boM9yrZoeOcnaValU8AzPv8rG</a>
15	S.Harika	III/IV	I	Fertiliser Technology	CHE316 (B)	Prilling tower & Granulation animation Model making & Explanation	<a href="https://www.ureaknowhow.com/ukh2/videos/video/91-kreber-prilling-equipment.html">https://www.ureaknowhow.com/ukh2/videos/video/91-kreber-prilling-equipment.html</a> <a href="https://drive.google.com/drive/folders/15_-jbd6PACezXiliTCK34y9ulUnqU3HD">https://drive.google.com/drive/folders/15_-jbd6PACezXiliTCK34y9ulUnqU3HD</a>
16	S.Harika	I/IV	I	Introduction to Chemical Engineering	CHE 114	Lab Demonstration Chart preparation & Explanation Animated Videos related to size reduction equipments	<a href="https://drive.google.com/drive/folders/13YKJgH-WwJ7o4LuA5ZXIpDHZ6xPVZi90">https://drive.google.com/drive/folders/13YKJgH-WwJ7o4LuA5ZXIpDHZ6xPVZi90</a> <a href="https://drive.google.com/drive/folders/1zi5KJhxYmiSZMYDcMcl6bjJmWQ1m7te">https://drive.google.com/drive/folders/1zi5KJhxYmiSZMYDcMcl6bjJmWQ1m7te</a> <a href="https://www.youtube.com/watch?v=L6sgGXXYdEU">https://www.youtube.com/watch?v=L6sgGXXYdEU</a> <a href="https://www.youtube.com/watch?v=rC9rhEpZBMU">https://www.youtube.com/watch?v=rC9rhEpZBMU</a> <a href="https://www.911metallurgist.com/blog/jaw-crusher-working-principle">https://www.911metallurgist.com/blog/jaw-crusher-working-principle</a> <a href="https://www.youtube.com/watch?v=2jfAnGA40NE">https://www.youtube.com/watch?v=2jfAnGA40NE</a> <a href="https://www.youtube.com/watch?v=tPYxXAWo3jU">https://www.youtube.com/watch?v=tPYxXAWo3jU</a> <a href="https://www.youtube.com/watch?v=_oxFLiQoneJ8">https://www.youtube.com/watch?v=_oxFLiQoneJ8</a> <a href="https://www.youtube.com/watch?v=8aWNVNubvdw">https://www.youtube.com/watch?v=8aWNVNubvdw</a> <a href="https://www.youtube.com/watch?v=L6sgGXXYdEU">https://www.youtube.com/watch?v=L6sgGXXYdEU</a>
17	Dr.Anjali Dasari	IV/IV	I	NT	CHE 316B	Model based explanation, Animated videos	<a href="https://drive.google.com/drive/folders/1ZeB4wX1xKupkzi4uFJncVdaM0VV_G9fU">https://drive.google.com/drive/folders/1ZeB4wX1xKupkzi4uFJncVdaM0VV_G9fU</a> <a href="https://www.youtube.com/watch?v=Z9-cii9aOeE">https://www.youtube.com/watch?v=Z9-cii9aOeE</a> <a href="https://www.youtube.com/watch?v=ZDa3d7FnZ58">https://www.youtube.com/watch?v=ZDa3d7FnZ58</a> <a href="https://www.youtube.com/watch?v=Z9-cii9aOeE">https://www.youtube.com/watch?v=Z9-cii9aOeE</a>
18	Dr.Anjali Dasari	II/IV	I	MO	CHE 215	Lab Demonstration	<a href="https://drive.google.com/drive/folders/1ALmzxXpWckkZF7xZBHU1oZbe6WgHthRh">https://drive.google.com/drive/folders/1ALmzxXpWckkZF7xZBHU1oZbe6WgHthRh</a>

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19	Mr. M. Koteswara Rao	III/IV	I	CT	CHE 315	Flipped class	<a href="https://drive.google.com/file/d/1dD9or0_N0Qu1E9Jg0Ua0WiXsmOMzN_FS/view?usp=sharing">https://drive.google.com/file/d/1dD9or0_N0Qu1E9Jg0Ua0WiXsmOMzN_FS/view?usp=sharing</a> <a href="https://drive.google.com/file/d/1ChWZKVz1-DyzLqU-xm3kHf2tyaUrv61H/view?usp=sharing">https://drive.google.com/file/d/1ChWZKVz1-DyzLqU-xm3kHf2tyaUrv61H/view?usp=sharing</a> <a href="https://drive.google.com/file/d/1_wKhNCoatgw6-eRHeN1FM4YkIAN6yXt_/view?usp=sharing">https://drive.google.com/file/d/1_wKhNCoatgw6-eRHeN1FM4YkIAN6yXt_/view?usp=sharing</a>
						Animation videos	<a href="https://www.youtube.com/watch?v=yVuyXxsmUI&amp;t=1s">https://www.youtube.com/watch?v=yVuyXxsmUI&amp;t=1s</a> <a href="https://www.youtube.com/watch?v=XdAEi1PHayM&amp;t=3s">https://www.youtube.com/watch?v=XdAEi1PHayM&amp;t=3s</a> <a href="https://www.youtube.com/watch?v=SC8eRjaYW0g">https://www.youtube.com/watch?v=SC8eRjaYW0g</a> <a href="https://www.youtube.com/watch?v=DntcnAa1pC8">https://www.youtube.com/watch?v=DntcnAa1pC8</a> <a href="https://www.youtube.com/watch?v=SSp2UCM4aAU">https://www.youtube.com/watch?v=SSp2UCM4aAU</a> <a href="https://www.youtube.com/watch?v=E32qkqTfZj0">https://www.youtube.com/watch?v=E32qkqTfZj0</a> <a href="https://www.youtube.com/watch?v=Flxz7biiIG0">https://www.youtube.com/watch?v=Flxz7biiIG0</a> <a href="https://www.youtube.com/watch?v=udOytDQwRpM">https://www.youtube.com/watch?v=udOytDQwRpM</a> <a href="https://www.youtube.com/watch?v=JkWqNH7OYVM">https://www.youtube.com/watch?v=JkWqNH7OYVM</a> <a href="https://www.youtube.com/watch?v=Gp0Dz28LxkA">https://www.youtube.com/watch?v=Gp0Dz28LxkA</a> <a href="https://www.youtube.com/watch?v=8YHsxXEVB1M&amp;t=3s">https://www.youtube.com/watch?v=8YHsxXEVB1M&amp;t=3s</a> <a href="https://www.youtube.com/watch?v=OazrTT0I91c">https://www.youtube.com/watch?v=OazrTT0I91c</a> <a href="https://www.youtube.com/watch?v=8W8SW98-sXQ&amp;t=306s">https://www.youtube.com/watch?v=8W8SW98-sXQ&amp;t=306s</a> <a href="https://www.youtube.com/watch?v=jk0WrtA8_T8">https://www.youtube.com/watch?v=jk0WrtA8_T8</a>
						Product preparation (Experiential Based Learning)	<a href="https://drive.google.com/file/d/1G1JvzY-KcjXDYkzqP3GvbchU15Rq5Czj/view?usp=sharing">https://drive.google.com/file/d/1G1JvzY-KcjXDYkzqP3GvbchU15Rq5Czj/view?usp=sharing</a>
20	Mr. M. Koteswara Rao	IV/IV	I	PMS	CHE 415	Solving problems through Simulation	<a href="https://drive.google.com/file/d/1Tuw5utJ6qz8uDOcZWCIKuXUno7pEZI-Z/view?usp=sharing">https://drive.google.com/file/d/1Tuw5utJ6qz8uDOcZWCIKuXUno7pEZI-Z/view?usp=sharing</a>
21	Dr. R. Srikanth	IV/IV	I	CPEED	CHE 414	Problem solving and GATE Based quiz	<a href="https://drive.google.com/drive/folders/11rC9WgGtx-CIUn0EPFod0w8tMWzvJ3G6?usp=drive_link">https://drive.google.com/drive/folders/11rC9WgGtx-CIUn0EPFod0w8tMWzvJ3G6?usp=drive_link</a>
22	Dr. R. Srikanth	II/IV	I	Biology for Engineers	CHE 213	Seminar Presentations	<a href="https://drive.google.com/drive/folders/1s3zO_93ENQoXCTInKpcmw32GQ8KBSbZi?usp=drive_link">https://drive.google.com/drive/folders/1s3zO_93ENQoXCTInKpcmw32GQ8KBSbZi?usp=drive_link</a>