

**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:2021-22**

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	Material Science and Engineering	CHE 326 (A)	Activity for students to construct the crystal structures using spheres	<a href="https://drive.google.com/drive/folders/1-xJOANb-8NVqeRHGcmlgMLo8yYq-PbJd?usp=share_link">https://drive.google.com/drive/folders/1-xJOANb-8NVqeRHGcmlgMLo8yYq-PbJd?usp=share_link</a>
2	Mr. B. Pradeep Santosh Kumar	II/IV	II	Chemical Engineering Thermodynamics - I	CHE225	Python Coding	<a href="https://drive.google.com/drive/folders/1DXGVvNm6tGhq5PewOC8JOPIMCVyV_06m">https://drive.google.com/drive/folders/1DXGVvNm6tGhq5PewOC8JOPIMCVyV_06m</a>
3	Dr. R. Srikanth	II/IV	II	NMCE	CHE 225	Activity of python coding for Numerical Methods	<a href="https://drive.google.com/drive/folders/13kRWxUOJCqyXqfr7jICo94-pbOdhUMSF?usp=drive_link">https://drive.google.com/drive/folders/13kRWxUOJCqyXqfr7jICo94-pbOdhUMSF?usp=drive_link</a>
4	Mr. M. Koteswara	III/IV	II	PDC	CHE324	Animated videos	<a href="https://www.youtube.com/watch?v=MjfBXeoPKsU&amp;list=PLDiXbC2f4yX1MDpoxb6j26PTzmkRp5Qxi&amp;index=6">https://www.youtube.com/watch?v=MjfBXeoPKsU&amp;list=PLDiXbC2f4yX1MDpoxb6j26PTzmkRp5Qxi&amp;index=6</a> <a href="https://www.youtube.com/watch?v=bEnRRI7XXRs&amp;list=PLDiXbC2f4yX1MDpoxb6j26PTzmkRp5Qxi">https://www.youtube.com/watch?v=bEnRRI7XXRs&amp;list=PLDiXbC2f4yX1MDpoxb6j26PTzmkRp5Qxi</a>
5	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>
6	Dr. R. Srikanth	IV/IV	II	CPEED	CHE 421	Report Writing	<a href="https://drive.google.com/drive/folders/1H7NzAEuW1i_VdvFR006r510PH0Wd5qKb?usp=drive_link">https://drive.google.com/drive/folders/1H7NzAEuW1i_VdvFR006r510PH0Wd5qKb?usp=drive_link</a>
7	Dr. K. China Mal	III/IV	II	MT-II	CHE 322	Drying calculations using python	<a href="https://drive.google.com/drive/folders/1wqtllcApL7ycUxRRPQB5Y_KljA5R3_gV?usp=drive_link">https://drive.google.com/drive/folders/1wqtllcApL7ycUxRRPQB5Y_KljA5R3_gV?usp=drive_link</a>
8	S.Harika	III/IV	I	Heat Transfer	ChE 313	Animated Videos related to Evaporators & Heat Exchangers	<a href="https://www.youtube.com/watch?v=MdDbxktvecg">https://www.youtube.com/watch?v=MdDbxktvecg</a> <a href="https://www.youtube.com/watch?v=OyQ3SaU4KKU">https://www.youtube.com/watch?v=OyQ3SaU4KKU</a> <a href="https://www.youtube.com/watch?v=br3gkrXTmdY">https://www.youtube.com/watch?v=br3gkrXTmdY</a> <a href="https://www.youtube.com/watch?v=c9HdoCZNITg">https://www.youtube.com/watch?v=c9HdoCZNITg</a>

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9	Dr. Ch. Anil	III/IV	I	Chemical Engineering Thermodynamics - II	CHE 312	Activity for students in Python to solve numerical problems	<a href="https://drive.google.com/drive/folders/1AeOIk6S_g-avBF9GcmsS4URBdgz4StS0?usp=sharing">https://drive.google.com/drive/folders/1AeOIk6S_g-avBF9GcmsS4URBdgz4StS0?usp=sharing</a>
10	Mr. B. Pradeep Santosh Kumar	IV/IV	I	CRE-II	CHE411	Seminars	<a href="https://drive.google.com/drive/folders/1bUTC3OqGgwmzIyh9KZeswlg4MaD0hkW">https://drive.google.com/drive/folders/1bUTC3OqGgwmzIyh9KZeswlg4MaD0hkW</a>
11	Dr. Anjali	I/IV	I	Introduction to chemical engineering	CHE115	Animated videos of ball mill, pumps, heat exchangers, evaporators	<a href="https://www.youtube.com/watch?v=oo3Ss1L3KUg">https://www.youtube.com/watch?v=oo3Ss1L3KUg</a> <a href="https://www.youtube.com/watch?v=N7iIzKA5xh8&amp;t=1s">https://www.youtube.com/watch?v=N7iIzKA5xh8&amp;t=1s</a> <a href="https://www.youtube.com/watch?v=wTLBb_bBhJs">https://www.youtube.com/watch?v=wTLBb_bBhJs</a> <a href="https://www.youtube.com/watch?v=o0HjkMSgn6k">https://www.youtube.com/watch?v=o0HjkMSgn6k</a> <a href="https://www.youtube.com/watch?v=MdDbxktvecg">https://www.youtube.com/watch?v=MdDbxktvecg</a> <a href="https://www.youtube.com/watch?v=OyQ3SaU4KKU">https://www.youtube.com/watch?v=OyQ3SaU4KKU</a> <a href="https://www.youtube.com/watch?v=br3gkrXTmdY">https://www.youtube.com/watch?v=br3gkrXTmdY</a> <a href="https://www.youtube.com/watch?v=c9HdoCZNITg">https://www.youtube.com/watch?v=c9HdoCZNITg</a>
12	Mr. M. Koteswara Rao	III/IV	I	Chemical Technology	CHE 315	Animated videos	<a href="https://www.youtube.com/watch?v=yVuyXxsmduI&amp;t=1s">https://www.youtube.com/watch?v=yVuyXxsmduI&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=FIxz7biiIG0">https://www.youtube.com/watch?v=FIxz7biiIG0</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>
13	Dr. R. Srikanth	IV/IV	I	TP	CHE 412	Problem solving and GATE Based Questions	<a href="https://drive.google.com/drive/folders/1w5-ccgujciM8Ejv0em3dRL21_1TFalOr?usp=drive_link">https://drive.google.com/drive/folders/1w5-ccgujciM8Ejv0em3dRL21_1TFalOr?usp=drive_link</a>
14	Dr. K. China Mallesh	II/IV	I	CPC	CHE 214	Calculations in excel	<a href="https://docs.google.com/spreadsheets/d/186g9MRCsb8oCnYpaXiumi17w_vgeMXu6/edit?usp=drive_link&amp;ouid=115409160933473292240&amp;rtpof=true&amp;sd=true">https://docs.google.com/spreadsheets/d/186g9MRCsb8oCnYpaXiumi17w_vgeMXu6/edit?usp=drive_link&amp;ouid=115409160933473292240&amp;rtpof=true&amp;sd=true</a>
15	Dr. K. China Mallesh	III/IV	I	MT-I	CHE 314	Absorption problem calculator	<a href="https://docs.google.com/spreadsheets/d/1RH5NG_eKBg0zs1oQEiXvurijewilUhlm/edit?usp=drive_link&amp;ouid=115409160933473292240&amp;rtpof=true&amp;sd=true">https://docs.google.com/spreadsheets/d/1RH5NG_eKBg0zs1oQEiXvurijewilUhlm/edit?usp=drive_link&amp;ouid=115409160933473292240&amp;rtpof=true&amp;sd=true</a>