

# ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

(UGC AUTONOMOUS)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

SANGIVALASA 531 162, BHEEMUNIPATNAM MANDAL, VISAKHAPATNAM DIST

## DEPARTMENT OF CHEMICAL ENGINEERING

### Details of Innovative and Collaborative Teaching Methodologies

#### Academic Year:2020-21

S.No	Name of Faculty	Class & Section	Semester	Name of the Course	Course Code	Innovative/Collaborative teaching methods used	Links if any
1	M. Koteswara Rao	III/IV	II	Petrochemicals	CHE325(A)	Videos related to petrochemicals	<a href="https://www.youtube.com/watch?v=5NyjH26RIPI&amp;t=11s">https://www.youtube.com/watch?v=5NyjH26RIPI&amp;t=11s</a> <a href="https://www.youtube.com/watch?v=CHivlQ41QxM&amp;t=5s">https://www.youtube.com/watch?v=CHivlQ41QxM&amp;t=5s</a> <a href="https://www.youtube.com/watch?v=PVGjvdFjnYI&amp;t=11s">https://www.youtube.com/watch?v=PVGjvdFjnYI&amp;t=11s</a> <a href="https://www.youtube.com/watch?v=yCqCxSOG_Y4&amp;t=3s">https://www.youtube.com/watch?v=yCqCxSOG_Y4&amp;t=3s</a>
2	M. Koteswara Rao	II/IV	II	Chemical Engineering Thermodynamics-I	CHE225	Excel and Coding	<a href="https://docs.google.com/spreadsheets/d/1MIqyudhWiygvUO3Wgew0MLYYV4dU7IJ-/edit?usp=sharing&amp;ouid=108999896637061479829&amp;rtof=true&amp;sd=true">https://docs.google.com/spreadsheets/d/1MIqyudhWiygvUO3Wgew0MLYYV4dU7IJ-/edit?usp=sharing&amp;ouid=108999896637061479829&amp;rtof=true&amp;sd=true</a> <a href="https://drive.google.com/file/d/1bM8tqeOtLHKmImMpX0NoqaroXbgVdf45/view?usp=sharing">https://drive.google.com/file/d/1bM8tqeOtLHKmImMpX0NoqaroXbgVdf45/view?usp=sharing</a>

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3	S.Harika	III/IV	I	Heat Transfer	CHE 313	Videos related to 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>
4	S.Harika	III/IV	II	I.P.C	CHE 325	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>
5	S.Harika	II/IV	II	P.T	CHE-226(A)	Videos related to polymer processing equipment	<a href="https://www.youtube.com/watch?v=bAEdNrb5xWA">https://www.youtube.com/watch?v=bAEdNrb5xWA</a> <a href="https://www.youtube.com/watch?v=b1U9W4iNDiQ">https://www.youtube.com/watch?v=b1U9W4iNDiQ</a> <a href="https://www.youtube.com/watch?v=8W6P5KU5ONQ">https://www.youtube.com/watch?v=8W6P5KU5ONQ</a> <a href="https://www.youtube.com/watch?v=-J2PRUF8jPQ">https://www.youtube.com/watch?v=-J2PRUF8jPQ</a>
6	Dr. Anjali I	III/IV	I	Fertilizer Technology	CHE 326(B)	Animated videos	<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://www.youtube.com/watch?v=ZnQrZo0zjbE">https://www.youtube.com/watch?v=ZnQrZo0zjbE</a>

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7	Dr. Anjali D	II/IV	I	Mechanical Operations	CHE-215	Animated videos for size reduction equipment	<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=_oxFLiQneJ8">https://www.youtube.com/watch?v=_oxFLiQneJ8</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>
8	Mr. B. Prad	III/IV	II	Mass Transfer Operations	CHE321	Mass transfer equipment animations	<a href="https://www.youtube.com/watch?v=42BA1GWIWic">https://www.youtube.com/watch?v=42BA1GWIWic</a> <a href="https://www.youtube.com/watch?v=7cNHecFHHT4">https://www.youtube.com/watch?v=7cNHecFHHT4</a> <a href="https://www.youtube.com/watch?v=HqP45slStpw">https://www.youtube.com/watch?v=HqP45slStpw</a> <a href="https://www.youtube.com/watch?v=dwHFKyf_ZLc">https://www.youtube.com/watch?v=dwHFKyf_ZLc</a> <a href="https://www.youtube.com/watch?v=ZKCK7K4Ew7c">https://www.youtube.com/watch?v=ZKCK7K4Ew7c</a>
9	Mr. B. Prad	III/IV	I	Chemical Reaction Engineering-I	CHE315	Ideal Reactors animations	<a href="https://youtu.be/3fIM6rAUk10">https://youtu.be/3fIM6rAUk10</a> <a href="https://youtu.be/3fIM6rAUk10">https://youtu.be/3fIM6rAUk10</a> <a href="https://youtu.be/tUk6e9gNlyA">https://youtu.be/tUk6e9gNlyA</a>
10	Dr. Anjali D	II/IV	II	Momentum Transfer	CHE 222	Animated videos for pumps and flow meters	<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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11	Dr. Ch. Anil	III/IV	II	Material Science and Engineering	CHE 323	Animations for fracture mechanics	<a href="https://www.youtube.com/watch?v=opPWceW-YKc">Creep mechanism: https://www.youtube.com/watch?v=opPWceW-YKc</a> Fatigue failure: <a href="https://www.youtube.com/watch?v=o-6V_JoRX1g">https://www.youtube.com/watch?v=o-6V_JoRX1g</a>
12	Dr. Ch. Anil	III/IV		Chemical Engineering Thermodynamics - II	CHE 312	Daily Quiz in Google Classroom	<a href="https://classroom.google.com/u/1/w/MTE4ODM5MjY3OTA0/t/all">https://classroom.google.com/u/1/w/MTE4ODM5MjY3OTA0/t/all</a>
13	Dr. K. China Malakondiah	III/IV	II	Chemical Technology	CHE324	Flowsheet animations	<a href="https://nptel.ac.in/courses/103106108/downloads/swf%20file/Sulfuric%20acid%20by%20chamber%20process.swf">https://nptel.ac.in/courses/103106108/downloads/swf%20file/Sulfuric%20acid%20by%20chamber%20process.swf</a> <a href="https://nptel.ac.in/courses/103106108/downloads/swf%20file/Sulfuric%20acid%20by%20contact%20process.swf">https://nptel.ac.in/courses/103106108/downloads/swf%20file/Sulfuric%20acid%20by%20contact%20process.swf</a> <a href="https://nptel.ac.in/courses/103106108/downloads/swf%20file/Sodium%20carbonate%20Solvays%20process.swf">https://nptel.ac.in/courses/103106108/downloads/swf%20file/Sodium%20carbonate%20Solvays%20process.swf</a> <a href="https://nptel.ac.in/courses/103106108/downloads/swf%20file/Sodium%20carbonate%20dual%20process.swf">https://nptel.ac.in/courses/103106108/downloads/swf%20file/Sodium%20carbonate%20dual%20process.swf</a> <a href="https://nptel.ac.in/courses/103106108/downloads/swf%20file/Sodium%20carbonate%20by%20electrolytic%20process.swf">https://nptel.ac.in/courses/103106108/downloads/swf%20file/Sodium%20carbonate%20by%20electrolytic%20process.swf</a> <a href="https://nptel.ac.in/courses/103106108/downloads/swf%20file/cement%20conveyers.swf">https://nptel.ac.in/courses/103106108/downloads/swf%20file/cement%20conveyers.swf</a>

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14	Dr. K. China Malakondiah	IV/IV	I	Nanotechnology	CHE415(C)	Animations/Pictorial representation	<a href="https://nptel.ac.in/courses/102/107/102107058/">https://nptel.ac.in/courses/102/107/102107058/</a>
15	Prof. R. Srikanth	II/IV	II	Numerical Methods for Chemical Engineers	CHE 225	Online Quiz using Kahoot.com	<a href="https://create.kahoot.it/share/nmce-review-01-05-2021/1be8b329-b979-430b-b35b-86e1c42b3530">https://create.kahoot.it/share/nmce-review-01-05-2021/1be8b329-b979-430b-b35b-86e1c42b3530</a>
16	Prof. R. Srikanth	IV/IV	I	Transport Phenomena	CHE 412	Regular Quizzes in Google class room, Use of Online quiz portal Kahoo.com, Use of online question portal menti.com	<a href="https://classroom.google.com/u/0/w/MTQxMTA2MDMzODEy/t/all">https://classroom.google.com/u/0/w/MTQxMTA2MDMzODEy/t/all</a> <a href="https://create.kahoot.it/details/651ba962-c5c1-48aa-9831-61f3befc6f95">https://create.kahoot.it/details/651ba962-c5c1-48aa-9831-61f3befc6f95</a> <a href="https://www.mentimeter.com/s/47e84a6910b0bfc7b3573af7cdb9f76c/50858b9858fb">https://www.mentimeter.com/s/47e84a6910b0bfc7b3573af7cdb9f76c/50858b9858fb</a>

*Ch. Anil*

Dr. Ch. Anil

HOD Chemical Engineering

**HEAD,**  
**DEPARTMENT OF CHEMICAL**  
**ENGINEERING**