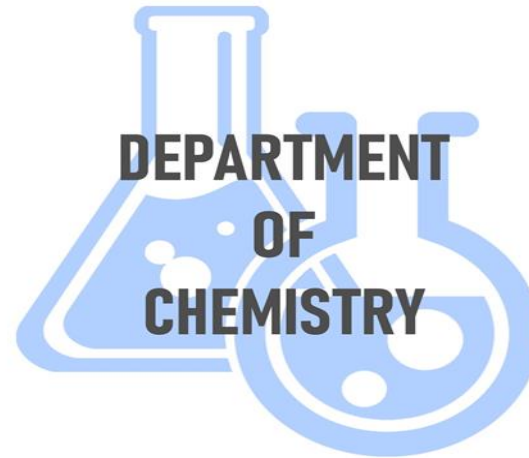









Directorate of Technical Education  
Tamil Nadu







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ANNA UNIVERSITY AFFILIATED GOVERNMENT ENGINEERING COLLEGES - REGULATION 2017








**SUBJECT CODE/SUBJECT: CY8151-Engineering Chemistry****SEMESTER: First Semester (Common to all Branches)**








Sl. No.	Subject Code and Name	College Name	E-Lecture Unit	Sub Topics	Name of the Faculty /Designation, E-mail & Mobile No.	YouTube Link	QR code
1.	CY8151-Engineering Chemistry	Thanthai Periyar Government Institute of Technology, Bagayam, Vellore-632002	Unit-I Water and its Treatment	Hardness of water	Mr. K. Sakthikumar AP/ Chemistry sathikumar4490@gmail.com 8056376149	<a href="https://youtu.be/I9pt4Vmduxo">https://youtu.be/I9pt4Vmduxo</a>	
				Internal treatment		<a href="https://www.youtube.com/watch?v=kWKYwfP7W3Y&amp;feature=youtu.be">https://www.youtube.com/watch?v=kWKYwfP7W3Y&amp;feature=youtu.be</a>	
				Reverse osmosis		<a href="https://www.youtube.com/watch?v=I6du5ada2s8&amp;feature=youtu.be">https://www.youtube.com/watch?v=I6du5ada2s8&amp;feature=youtu.be</a>	
2.	CY8151-Engineering Chemistry	Thanthai Periyar Government Institute of Technology, Bagayam, Vellore-632002	Unit-I Water and its Treatment	External Hard water treatment - Zeolite Process	Mr. C.Raveendiran AP/ Chemistry raveendiranc@gmail.com 8072082433	<a href="https://youtu.be/8taFBkKVyH4">https://youtu.be/8taFBkKVyH4</a>	
				External Hard water treatment – Demineralization (or) Ion – Exchange Process		<a href="https://youtu.be/-W7asV5sb10">https://youtu.be/-W7asV5sb10</a>	








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3.	CY8151- Engineering Chemistry	Thanthai Periyar Government Institute of Technology, Bagayam, Vellore- 632002	Unit-I Water and its Treatment	Boiler Troubles- Scale and Sludge Formation	Dr.N.Kalaivasan Professor(CAS)/Chemistry nkvasan78@gmail.com 9443686804	<a href="https://youtu.be/ApFjd9cfTn4">https://youtu.be/ApFjd9cfTn4</a>	
				Boiler Troubles- Boiler corrosion		<a href="https://youtu.be/Zxo_SewoOAc">https://youtu.be/Zxo_SewoOAc</a>	
				Boiler Troubles- Caustic embrittlement and Priming & Foaming		<a href="https://youtu.be/t7eXxTVjDss">https://youtu.be/t7eXxTVjDss</a>	
4.	CY8151- Engineering Chemistry	Government College of Engineering, Sengipetti, Thanjavur.	Unit-II Surface Chemistry and Catalysis	Surface Chemistry	Prof. S.A.T.Shanmugapriya Asso. Professor/ Chemistry satshanmugapriya@gcetj.edu.in 9443365385	<a href="https://youtu.be/dGw0i8TtehY">https://youtu.be/dGw0i8TtehY</a>	
5.	CY8151- Engineering Chemistry	Government College of Engineering, Sengipetti, Thanjavur.	Unit-II Surface Chemistry and Catalysis	Enzyme Catalyst	Dr.N.Suresh Babu, Assistant Professor/ Chemistry nsureshbabu@gcetj.edu.in 8270763180	<a href="https://youtu.be/gMQw_nORc3o">https://youtu.be/gMQw_nORc3o</a>	
				Kinetics of Unimolecular Surface reactions		<a href="https://youtu.be/BaX_i5ZBjTc">https://youtu.be/BaX_i5ZBjTc</a>	

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6.	CY8151-Engineering Chemistry	Government College of Engineering, Sengipetti, Thanjavur.	Unit-II Surface Chemistry and Catalysis	Langmuir Adsorption Isotherm	Dr.N.SureshBabu, Assistant Professor/ Chemistry nsureshbabu@gcetj.edu.in 8270763180	<a href="https://youtu.be/Pha9SJi9chU">https://youtu.be/Pha9SJi9chU</a>	
7.	CY8151-Engineering Chemistry	Government College of Engineering, Tirunelveli.	Unit III Alloys and Phase Rule	Alloys, Properties, Significance of alloying, Functions or effects of alloying elements	Dr. S. Sophie Beulah Associate Professor(CAS)/ Chemistry sophie.beul@gmail.com 9865315450	<a href="https://youtu.be/nfst5xUy2G8">https://youtu.be/nfst5xUy2G8</a>	
				Nichrome and Stainless steel		<a href="https://youtu.be/kpA3H0L2Zf8">https://youtu.be/kpA3H0L2Zf8</a>	
				Heat treatment of Steels (alloys)		<a href="https://youtu.be/PdhMqYu7MZY">https://youtu.be/PdhMqYu7MZY</a>	





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8.	CY8151-Engineering Chemistry	Government College of Engineering, Tirunelveli.	Unit III Alloys and Phase Rule	Gibb's Phase Rule, Definition of Terms involved-Phase with examples	Dr.B.Malini, AP/Chemistry malini@gcetly.ac.in 8220015687	<a href="https://youtu.be/-NK8LSlcnLY">https://youtu.be/-NK8LSlcnLY</a>	
				Definition of terms- Components and Degrees of Freedom with examples		<a href="https://youtu.be/OBMdXDRSJk0">https://youtu.be/OBMdXDRSJk0</a>	
				One Component System-Water System		<a href="https://youtu.be/v3DpHhU5dyQ">https://youtu.be/v3DpHhU5dyQ</a>	
				Reduced Phase Rule		<a href="https://youtu.be/yl7qr7YjeIw">https://youtu.be/yl7qr7YjeIw</a>	
				Thermal Analysis and Cooling Curves		<a href="https://youtu.be/soxFaqyUPWE">https://youtu.be/soxFaqyUPWE</a>	







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	CY8151-Engineering Chemistry	Government College of Engineering, Tirunelveli.	Unit III Alloys and Phase Rule	Two component system- Lead - Silver System	Dr.B.Malini, AP/Chemistry malini@gcetly.ac.in 8220015687	<a href="https://youtu.be/lZY53jgKTIc">https://youtu.be/lZY53jgKTIc</a>	
				Pattison's Process of desilverization of Lead		<a href="https://youtu.be/NEr65G_UovE">https://youtu.be/NEr65G_UovE</a>	
9.	CY8151-Engineering Chemistry	Government College of Engineering, Srirangam, Trichy.	Unit IV Fuels	Introduction to fuels	Ms.C.Smitha, AP/ Chemistry harinitha2010@gmail.com 9095171170	<a href="https://youtu.be/uG8MhAI_OWo">https://youtu.be/uG8MhAI_OWo</a>	
				Estimation of carbon in the coal		<a href="https://youtu.be/71xFQaeN5IE">https://youtu.be/71xFQaeN5IE</a>	
				Estimation of hydrogen in the coal		<a href="https://youtu.be/Ed9li4bWzeE">https://youtu.be/Ed9li4bWzeE</a>	
				Estimation of nitrogen in the coal		<a href="https://youtu.be/E-VK9AwUQKw">https://youtu.be/E-VK9AwUQKw</a>	
				Estimation of sulphur in the coal		<a href="https://youtu.be/vF9x0VLnAKg">https://youtu.be/vF9x0VLnAKg</a>	

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	CY8151-Engineering Chemistry	Government College of Engineering, Srirangam, Trichy.	Unit IV Fuels	Estimation of ash and oxygen in the coal	Ms.C.Smitha, AP/ Chemistry harinitha2010@gmail.com 9095171170	<a href="https://youtu.be/vP9AuPu6yvM">https://youtu.be/vP9AuPu6yvM</a>	
				Power Alcohol		<a href="https://youtu.be/iNzh97qroVI">https://youtu.be/iNzh97qroVI</a>	
				Bio diesel		<a href="https://youtu.be/oOAMu1CKqCs">https://youtu.be/oOAMu1CKqCs</a>	
10.	CY8151-Engineering Chemistry	Government College of Engineering, Srirangam, Trichy.	Unit IV Fuels	Classification of fuels	Ms.M.Dhanalakshmi, AP/ Chemistry dhanaamurugan90@gces.edu.in 7598876973	<a href="https://youtu.be/McTZKkkAaKg">https://youtu.be/McTZKkkAaKg</a>	
				Introduction of Carbonisation process		<a href="https://youtu.be/HipRza_HM9Y">https://youtu.be/HipRza_HM9Y</a>	
				Types of carbonisation process		<a href="https://youtu.be/myhyMEP2T-Y">https://youtu.be/myhyMEP2T-Y</a>	
				Requisite of a metallurgical coke		<a href="https://youtu.be/LBTVi6Pj8IE">https://youtu.be/LBTVi6Pj8IE</a>	

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	CY8151- Engineering Chemistry	Government College of Engineering, Srirangam, Trichy.	Unit IV Fuels	Manufacturing of metallurgical coke	Ms.M.Dhanalakshmi, AP/ Chemistry dhanaamurugan90@gces.edu.in 7598876973	<a href="https://youtu.be/5YpipTnRWAQ">https://youtu.be/5YpipTnRWAQ</a>	
				Liquid fuel- introduction		<a href="https://youtu.be/H5644H0-Z_o">https://youtu.be/H5644H0-Z_o</a>	
				Refining of petroleum		<a href="https://youtu.be/7btYZd19j4k">https://youtu.be/7btYZd19j4k</a>	
				Hydrogenation of coal		<a href="https://youtu.be/GsOcn-VKr4I">https://youtu.be/GsOcn-VKr4I</a>	
11.	CY8151- Engineering Chemistry	Government College of Engineering, Srirangam, Trichy.	Unit IV Fuels	coal – analysis of coal (proximate)	Dr. A. Hemamalini, AP/ Chemistry malininarayananchem86@gces.edu. in 7338944710	<a href="https://youtu.be/DKbkcHRPMv0">https://youtu.be/DKbkcHRPMv0</a>	
				Knocking – octane number		<a href="https://youtu.be/rliuovF5Rok">https://youtu.be/rliuovF5Rok</a>	
				Diesel oil – cetane number		<a href="https://youtu.be/Z3J-Kj4xg6g">https://youtu.be/Z3J-Kj4xg6g</a>	



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	CY8151-Engineering Chemistry	Government College of Engineering, Srirangam, Trichy.	Unit IV Fuels	Gaseous fuels	Dr. A. Hemamalini, AP/ Chemistry malininarayananchem86@gces.edu.in 7338944710	<a href="https://youtu.be/oOAMu1CKqCs">https://youtu.be/oOAMu1CKqCs</a>	
12.	CY8151-Engineering Chemistry	Government College of Engineering, Dharmapuri.	Unit IV Combustion of Fuels	Introduction – Calorific value- Higher and lower calorific values- theoretical calculation of calorific value	Dr. N. Buvaneswari, AP/Chemistry buviechem@gmail.com 9080492299	<a href="https://drive.google.com/file/d/1oGlxtBYrQ6WJRlbT_9k2DKJboGZeji/view?usp=drivesdk">https://drive.google.com/file/d/1oGlxtBYrQ6WJRlbT_9k2DKJboGZeji/view?usp=drivesdk</a>	
13.	CY8151-Engineering Chemistry	Government College of Engineering, Dharmapuri.		Ignition Temperature- Spontaneous ignition Temperature- Explosive Range	Mr. M. Santhosh Kumar, AP/Chemistry gmsantu369@gmail.com 9790652937	<a href="https://drive.google.com/file/d/10u4asFi_1j-Ap82kyZ8w1PCz1deqniW4/view?usp=sharing">https://drive.google.com/file/d/10u4asFi_1j-Ap82kyZ8w1PCz1deqniW4/view?usp=sharing</a>	
14.	CY8151-Engineering Chemistry	Government College of Engineering, Dharmapuri.		Analysis of flue gas – Orsat's Apparatus	Dr. C. Prathipa, AP/Chemistry prathipakarthis@gmail.com 9080184859	<a href="https://drive.google.com/file/d/1P5KPnAGCw5UsJwan0PWtwgV89koTAyqd/view?usp=sharing">https://drive.google.com/file/d/1P5KPnAGCw5UsJwan0PWtwgV89koTAyqd/view?usp=sharing</a>	

Sl. No.	Subject Code and Name	College Name	E-Lecture Unit	Sub Topics	Name of the Faculty /Designation, E-mail & Mobile No.	YouTube Link	QR code
15	CY8151-Engineering Chemistry	Government College of Engineering, Bodinayakanur.	Unit V Energy Sources &Storage Devices	Nuclearreactor	Dr. R. Periasamy AP/ Chemistry rps1400000@gmail.com 9443569404	<a href="https://youtu.be/lRtgIUye-DM">https://youtu.be/lRtgIUye-DM</a>	
				Solar cell		<a href="https://youtu.be/mSychtUIyM">https://youtu.be/mSychtUIyM</a>	
				Wind Energy & Breederreactor		<a href="https://youtu.be/0zcVxva11vU">https://youtu.be/0zcVxva11vU</a>	
16.	CY8151-Engineering Chemistry	Government College of Engineering, Bodinayakanur.	Unit V Energy Sources &Storage Devices	Nuclear fission & fusion	Dr.S.Akbar AP/ Chemistry akbarkani@gmail.com 6379024424	<a href="https://youtu.be/C_MNzJWgMpI">https://youtu.be/C_MNzJWgMpI</a>	
				Lithium-ion battery & H2-O2 Fuel Cell		<a href="https://youtu.be/M3zWwzOxQao">https://youtu.be/M3zWwzOxQao</a>	
17.	CY8151-Engineering Chemistry	Government College of Engineering, Bodinayakanur.	Unit V Energy Sources &Storage Devices		Dr. M. Jude Jenita AP/ Chemistry jenijudechemist@gmail.com 9488591910	<a href="https://youtu.be/wfpMKcGh6_k">https://youtu.be/wfpMKcGh6_k</a>	

<b>Sl. No.</b>	<b>Subject Code and Name</b>	<b>College Name</b>	<b>E-Lecture Unit</b>	<b>Sub Topics</b>	<b>Name of the Faculty /Designation, E-mail &amp; Mobile No.</b>	<b>YouTube Link</b>	<b>QR code</b>
	CY8151- Engineering Chemistry	Government College of Engineering, Bodinayakanur.	Unit V Energy Sources &Storage Devices	Lead-Acid storage battery	Dr. M. Jude Jenita AP/ Chemistry jenijudechemist@gmail.com 9488591910	<a href="https://youtu.be/xgO-7eIN7ZU">https://youtu.be/xgO-7eIN7ZU</a>	