

## Innovations by the Faculty in Teaching and Learning

The Electrical and Electronics Engineering department faculty members are actively following different methods of teaching and learning to make the class more interesting and to improve student's knowledge.

❖ **Exclusive YouTube videos prepared for different subjects.**

Website link:

Year	YouTube playlist link		
<b>2<sup>nd</sup> Year</b>	Electrical Machines-I	Sri. A. S. Prakasha Rao	<a href="https://www.youtube.com/watch?v=BDnXaNYTNLw">https://www.youtube.com/watch?v=BDnXaNYTNLw</a>
	Electro Magnetic Fields	Sri. T. Nagaraju	<a href="https://www.youtube.com/watch?v=omSnM1rp6dg&amp;list=PLaZ04O8uU7UwVbdRkEIrBnLXe3cN6DuAx">https://www.youtube.com/watch?v=omSnM1rp6dg&amp;list=PLaZ04O8uU7UwVbdRkEIrBnLXe3cN6DuAx</a>
	Managerial Economics & Financial Analysis	Sri. Sk. ChanBasha	<a href="https://www.youtube.com/watch?v=UcTeoCri36Y&amp;list=PLaZ04O8uU7UzxeD1T68sRVMYW1UJMXQqE">https://www.youtube.com/watch?v=UcTeoCri36Y&amp;list=PLaZ04O8uU7UzxeD1T68sRVMYW1UJMXQqE</a>
	Electrical Measurements & Instrumentation	LV Narashimha Rao	<a href="https://www.youtube.com/watch?v=f_-XAk4m1MQ&amp;list=PLaZ04O8uU7UxTvCaIGJJZttos7Q0kaAsU">https://www.youtube.com/watch?v=f_-XAk4m1MQ&amp;list=PLaZ04O8uU7UxTvCaIGJJZttos7Q0kaAsU</a>
	Electrical Machines-II	J. Ayyappa	<a href="https://www.youtube.com/watch?v=qtd2kVdt-ps&amp;list=PLdzhX8ESR4Xcg4FEmuwgvgwOGJMkb7uqgW">https://www.youtube.com/watch?v=qtd2kVdt-ps&amp;list=PLdzhX8ESR4Xcg4FEmuwgvgwOGJMkb7uqgW</a>
	Digital Electronics	T. Kranti Kiran	<a href="https://www.youtube.com/watch?v=COoNlszwWs0&amp;list=PLdzhX8ESR4Xc0eZ96nptXW3-pmbQjpEWu">https://www.youtube.com/watch?v=COoNlszwWs0&amp;list=PLdzhX8ESR4Xc0eZ96nptXW3-pmbQjpEWu</a>
	Power Systems-I	A.Durga Prasad	<a href="https://www.youtube.com/watch?v=3aoQYct2IX8&amp;list=PLdzhX8ESR4XdkykWYlyTZVUnY_qyw5jQb">https://www.youtube.com/watch?v=3aoQYct2IX8&amp;list=PLdzhX8ESR4XdkykWYlyTZVUnY_qyw5jQb</a>
	Signals and Systems	M. VijayRaghavendra	<a href="https://www.youtube.com/watch?v=UAsOY13cAk4&amp;list=PLdzhX8ESR4XeuGcUfPSOv84JLcHDBqd7Q&amp;index=1">https://www.youtube.com/watch?v=UAsOY13cAk4&amp;list=PLdzhX8ESR4XeuGcUfPSOv84JLcHDBqd7Q&amp;index=1</a>
	Power Systems-I	Dr. N Bhupesh Kumar	<a href="https://www.youtube.com/watch?v=95WRD59w7cA&amp;list=PLquj01jNbx4Mi9vGqFR80FavaIW6Quk7-">https://www.youtube.com/watch?v=95WRD59w7cA&amp;list=PLquj01jNbx4Mi9vGqFR80FavaIW6Quk7-</a>
	Signals and Systems	Ch. Prasanna Lakshmi	<a href="https://www.youtube.com/watch?v=bW00pTBZm00&amp;list=PLquj01jNbx4N4DvQQT7RNBL4c2_NP3xsL">https://www.youtube.com/watch?v=bW00pTBZm00&amp;list=PLquj01jNbx4N4DvQQT7RNBL4c2_NP3xsL</a>
<b>3<sup>rd</sup> Year</b>	Power Systems-II	Dr. Y. Butchi Raju	<a href="https://www.youtube.com/watch?v=nreTwKRw70s&amp;list=PLokEvIN0a5shox6El9_8W0E-8oCtGvBMe">https://www.youtube.com/watch?v=nreTwKRw70s&amp;list=PLokEvIN0a5shox6El9_8W0E-8oCtGvBMe</a>

Signals and Systems	Sri.S.N.V.Bramareswara Rao	<a href="https://www.youtube.com/watch?v=7TF2QFE5_I4">https://www.youtube.com/watch?v=7TF2QFE5_I4</a>
Pulse & Digital Circuits	Sri.K.Venkatesh	<a href="https://www.youtube.com/watch?v=KZbFPt5ELRw&amp;list=PLokEvIN0a5siywba9BkHPxtvWa6O1Pah&amp;index=31">https://www.youtube.com/watch?v=KZbFPt5ELRw&amp;list=PLokEvIN0a5siywba9BkHPxtvWa6O1Pah&amp;index=31</a>
Power Electronics	Sri.M. Sunil Kumar	<a href="https://www.youtube.com/watch?v=Nqji7N7z_f8&amp;list=PLokEvIN0a5sh7GQCasnB2tNvcyNuEGeS1&amp;index=40">https://www.youtube.com/watch?v=Nqji7N7z_f8&amp;list=PLokEvIN0a5sh7GQCasnB2tNvcyNuEGeS1&amp;index=40</a>
Power Systems-II	Dr. N. Bhupesh Kumar	<a href="https://www.youtube.com/watch?v=zjovWpCIIQU&amp;list=PL0fCC53v4ZfxrGFtOnHnThLAK1PWXwEN1">https://www.youtube.com/watch?v=zjovWpCIIQU&amp;list=PL0fCC53v4ZfxrGFtOnHnThLAK1PWXwEN1</a>
Renewable Energy Sources	Sri. G. Ganesh	<a href="https://www.youtube.com/watch?v=uHgOYNu10x4&amp;list=PL0fCC53v4Zfz10EifibBK89MdUKeAsHF7">https://www.youtube.com/watch?v=uHgOYNu10x4&amp;list=PL0fCC53v4Zfz10EifibBK89MdUKeAsHF7</a>
Signals and Systems	Mrs. Ch. Prasanna Lakshmi	<a href="https://www.youtube.com/watch?v=Zidh73nn0y4&amp;list=PL0fCC53v4ZfwbP8iSBbXEoNunUMigxMOw">https://www.youtube.com/watch?v=Zidh73nn0y4&amp;list=PL0fCC53v4ZfwbP8iSBbXEoNunUMigxMOw</a>
Pulse & Digital Circuits	Sri.M.VijayaRaghavendra	<a href="https://www.youtube.com/watch?v=KHI9cZpzmXo&amp;list=PL0fCC53v4ZfwdAwFGeztkp6KJC-DhRPGF">https://www.youtube.com/watch?v=KHI9cZpzmXo&amp;list=PL0fCC53v4ZfwdAwFGeztkp6KJC-DhRPGF</a>
Power Electronics	Mrs. T. DeeptiPrasanna	<a href="https://www.youtube.com/watch?v=PLdWx0tEuYk&amp;list=PL0fCC53v4ZfzPiq3ygSyt1-12RlsfDhUP">https://www.youtube.com/watch?v=PLdWx0tEuYk&amp;list=PL0fCC53v4ZfzPiq3ygSyt1-12RlsfDhUP</a>
Power Electronic Controllers & Drives	M. Sunil Kumar	<a href="https://www.youtube.com/watch?v=jYkZJpMuM5g&amp;list=PLdzhX8ESR4XeK2NOq6JSCWeknu1dLhL0I">https://www.youtube.com/watch?v=jYkZJpMuM5g&amp;list=PLdzhX8ESR4XeK2NOq6JSCWeknu1dLhL0I</a>
Power System Analysis	SNV Bramareswara Rao	<a href="https://www.youtube.com/watch?v=TRPtEjwARPE&amp;list=PLdzhX8ESR4Xc9FvmnSXgnRgQ8MYyOVy0Z">https://www.youtube.com/watch?v=TRPtEjwARPE&amp;list=PLdzhX8ESR4Xc9FvmnSXgnRgQ8MYyOVy0Z</a>
Micro Processors and Micro controllers	G. Ganesh	<a href="https://www.youtube.com/watch?v=nR1Elet42gm&amp;list=PLZZc6DcdADNIQHtFD27oLdDZMIY62hEpd">https://www.youtube.com/watch?v=nR1Elet42gm&amp;list=PLZZc6DcdADNIQHtFD27oLdDZMIY62hEpd</a>
Data Structures	V S Sampath Kumar	<a href="https://www.youtube.com/watch?v=c2-3yL_rFbo&amp;list=PLdzhX8ESR4Xdr9IzXVhUaf-KtdpVY_Am2">https://www.youtube.com/watch?v=c2-3yL_rFbo&amp;list=PLdzhX8ESR4Xdr9IzXVhUaf-KtdpVY_Am2</a>
Neural Networks & Fuzzy Logic	Dr. M VeeraKumari	<a href="https://www.youtube.com/watch?v=-Jz37ftni7s&amp;list=PLZZc6DcdADNIkUQx9AecX-TBMx-jvXIEz">https://www.youtube.com/watch?v=-Jz37ftni7s&amp;list=PLZZc6DcdADNIkUQx9AecX-TBMx-jvXIEz</a>
Power Electronic Controllers & Drives	T. DeepthiPrasanna	<a href="https://www.youtube.com/watch?v=guwxj0j49zY&amp;list=PLZZc6DcdADNmMjCkOJPFgumcyilPMMUph">https://www.youtube.com/watch?v=guwxj0j49zY&amp;list=PLZZc6DcdADNmMjCkOJPFgumcyilPMMUph</a>
Micro Processors and Micro controllers	R. Madhusudan	<a href="https://www.youtube.com/watch?v=f5zUnsjKOOQ&amp;list=PLdzhX8ESR4XdLkod1LwzPjWifsFuZ7xz">https://www.youtube.com/watch?v=f5zUnsjKOOQ&amp;list=PLdzhX8ESR4XdLkod1LwzPjWifsFuZ7xz</a>
Data Structures	R S K Chaitanya	<a href="https://www.youtube.com/watch?v=kkqYOM1hyqY&amp;list=PLdzhX8ESR4Xe9q4RD2-lvVw5W19r4W9PH">https://www.youtube.com/watch?v=kkqYOM1hyqY&amp;list=PLdzhX8ESR4Xe9q4RD2-lvVw5W19r4W9PH</a>

	Neural Networks & Fuzzy Logic	Dr. M VeeraKumari	<a href="https://www.youtube.com/watch?v=-Jz37ftni7s&amp;list=PLZZc6DcdADNlkUQx9AecX-TBMx-jvXIEz">https://www.youtube.com/watch?v=-Jz37ftni7s&amp;list=PLZZc6DcdADNlkUQx9AecX-TBMx-jvXIEz</a>
<b>4<sup>th</sup> Year</b>	Utilization of Electrical Energy	Sri. U. Ranjith Kumar	<a href="https://www.youtube.com/playlist?list=PLaF-qveEi39a4RQYOkzz1sjo8BpuKP-rd">https://www.youtube.com/playlist?list=PLaF-qveEi39a4RQYOkzz1sjo8BpuKP-rd</a>
	Linear IC Applications	Sri. K. KotaiahChowdary	<a href="https://www.youtube.com/playlist?list=PLaF-qveEi39YVEcqIy98nnWhElZRtURXA">https://www.youtube.com/playlist?list=PLaF-qveEi39YVEcqIy98nnWhElZRtURXA</a>
	Power System Operation & Control	Sri. S.R. Sagar	<a href="https://www.youtube.com/playlist?list=PLaF-qveEi39bUzXSSMDuq-nOTXeaxA7MF">https://www.youtube.com/playlist?list=PLaF-qveEi39bUzXSSMDuq-nOTXeaxA7MF</a>
	Switchgear and Protection	Sri N. Rama Narayana	<a href="https://www.youtube.com/playlist?list=PLaF-qveEi39bfNxU6Ob1mZwN2_Y3W8subk">https://www.youtube.com/playlist?list=PLaF-qveEi39bfNxU6Ob1mZwN2_Y3W8subk</a>
	Advanced Control Systems	Dr. M. VeeraKumari	<a href="https://www.youtube.com/playlist?list=PLaF-qveEi39bBI5IVpP-Jv3rN8qhVimbM">https://www.youtube.com/playlist?list=PLaF-qveEi39bBI5IVpP-Jv3rN8qhVimbM</a>
	Electric Power Quality	Dr. A. Srinivasa Reddy	<a href="https://www.youtube.com/playlist?list=PLaF-qveEi39ZTuR9w_Ecp3FBPOs_rS7b_">https://www.youtube.com/playlist?list=PLaF-qveEi39ZTuR9w_Ecp3FBPOs_rS7b_</a>
	Utilization of Electrical Energy	Sri. M.S.N.L.Narasimha Rao	<a href="https://www.youtube.com/watch?v=PhZIXMDPK-M&amp;list=PLYidQt_cJgUnuVu6W21Jxubqwc9JIYW4Y">https://www.youtube.com/watch?v=PhZIXMDPK-M&amp;list=PLYidQt_cJgUnuVu6W21Jxubqwc9JIYW4Y</a>
	Linear IC Applications	Sri.L.VamsiNarasimha Rao	<a href="https://www.youtube.com/watch?v=sM3-aNy8xi8&amp;list=PLYidQt_cJgUnmFTD41KSLWPoJ_vTRJeoZ">https://www.youtube.com/watch?v=sM3-aNy8xi8&amp;list=PLYidQt_cJgUnmFTD41KSLWPoJ_vTRJeoZ</a>
	Power System Operation & Control	Sri. B. Sambasiva Rao	<a href="https://www.youtube.com/watch?v=Y5jHNsKp58E&amp;list=PLYidQt_cJgUkJGTXIxyyUdWtQAVwXiJJy">https://www.youtube.com/watch?v=Y5jHNsKp58E&amp;list=PLYidQt_cJgUkJGTXIxyyUdWtQAVwXiJJy</a>
	Switchgear and Protection	Sri. J. Ayyappa	<a href="https://www.youtube.com/watch?v=fOVTE7DJGmE&amp;list=PLYidQt_cJgUllukgRARICV9YvdPtg4ljt">https://www.youtube.com/watch?v=fOVTE7DJGmE&amp;list=PLYidQt_cJgUllukgRARICV9YvdPtg4ljt</a>
	Advanced Control Systems	Sri. M. Mallikarjuna Reddy	<a href="https://www.youtube.com/watch?v=YIDtWsr-ItU&amp;list=PLYidQt_cJgUmVKMR70ssBfeVOo3N4SOhz&amp;index=2">https://www.youtube.com/watch?v=YIDtWsr-ItU&amp;list=PLYidQt_cJgUmVKMR70ssBfeVOo3N4SOhz&amp;index=2</a>
	Electric Power Quality	Sri. R. Madhusudan	<a href="https://www.youtube.com/watch?v=zPIyehqT91U&amp;list=PLYidQt_cJgUnS99Xyu3Hpr0ydDhIRrFY">https://www.youtube.com/watch?v=zPIyehqT91U&amp;list=PLYidQt_cJgUnS99Xyu3Hpr0ydDhIRrFY</a>
	Digital Control Systems	NVSR Pavan Kumar	<a href="https://www.youtube.com/watch?v=qUsTFjm4cdk&amp;list=PLdzhX8ESR4XeHIQGNyDdCpzSnFyj-X1gG">https://www.youtube.com/watch?v=qUsTFjm4cdk&amp;list=PLdzhX8ESR4XeHIQGNyDdCpzSnFyj-X1gG</a>
	Flexible Alternating Current Transmission Systems	Dr. A. Srinivasa Reddy	<a href="https://www.youtube.com/watch?v=14EC8sKJBoU&amp;list=PLdzhX8ESR4Xc8mDeJq38tGq1OPSxBP0fi">https://www.youtube.com/watch?v=14EC8sKJBoU&amp;list=PLdzhX8ESR4Xc8mDeJq38tGq1OPSxBP0fi</a>

HVDC Transmission	N. Ramanarayana	<a href="https://www.youtube.com/watch?v=9ZMAI2ugP7E&amp;list=PLdzhX8ESR4XfY_qJzHLwBTcewRfZ4qs7h">https://www.youtube.com/watch?v=9ZMAI2ugP7E&amp;list=PLdzhX8ESR4XfY_qJzHLwBTcewRfZ4qs7h</a>
Electrical Distribution Systems	SK. Chan Basha	<a href="https://www.youtube.com/watch?v=2PFaYmj9hc&amp;list=PLxzsFaJJj1xQNjlistmd7Lu9mQjEQCmWX">https://www.youtube.com/watch?v=2PFaYmj9hc&amp;list=PLxzsFaJJj1xQNjlistmd7Lu9mQjEQCmWX</a>

❖ **Exclusive Notes, PPTS, and materials preparation for various subjects.**

❖ **ICT & Model presentation of mechanisms for active learning of subjects-based Teaching.**

**Technology and innovative methods of teaching:** The use of technology in the classroom helps to engage the students with different kinds of stimuli and creates an environment of activity-based learning. It makes the content of the classroom more interesting and makes learning fun.

**Mind mapping:** a visual tool is used for disseminating complex information to the students is used for some of the subjects

❖ **Seminars and Project-based learning**

**Project-Based Learning:** Project Based Learning is a teaching method in which students gain knowledge and skills by working for an extended time to investigate and respond to an authentic, engaging, and complex question, problem, or challenge. Students work on a project over an extended time – from a week up to a semester – that engages them in solving a real-world problem or answering a complex question. They demonstrate their knowledge and skills by developing a public product or presentation. As a result, students develop deep content knowledge as well as critical thinking, creativity, and communication skills in the context of doing an authentic, meaningful project. Project-Based Learning unleashes contagious, creative energy among students and teachers.

**Teaching through collaboration:** Another innovative method of teaching involves encouraging student collaboration for various projects. Today, we live in a globalized world and collaboration is an essential life skill that is important for all careers and enterprises. Teachers can help foster this skill in the classroom by allowing students to learn, study and work in groups.

❖ **Welcome New Ideas**

**Discussion Forum:** Discussions sessions are held for enhancing student motivation, fostering intellectual agility, and encouraging democratic habits. These create opportunities for students to practice and sharpen many skills, including the ability to articulate and defend positions, consider different points of view, and enlist and evaluate evidence.

❖ **Work Together as a Team**

**Brain Storming:** A group of students are given a single problem and asked spontaneously for rapidity of ideas to increase the spontaneity of interactions. Creative and Effective thoughts begin to evolve from this group process

**Method Implemented in Class Room: Student-Centered Instruction**

