

Innovations by the Faculty in Teaching-Learning Details

Sl. No.	Innovation Method	Type of Activity	Sample Learning Tools
1	ICT and Multimedia based Learning	PPT Students able to understand concepts using different media elements.	<p>Hybrid Electric Vehicles https://drive.google.com/file/d/1o6-G-20MYGtI_8Vu4ERE4VdvfAH_mSA4/view?usp=drive_web&authuser=1 https://drive.google.com/file/d/192YZ6A1h-sAlFw8n2ASAwR2zFpxMko4q/view?usp=drive_web&authuser=1</p> <p>Circuit Theory https://drive.google.com/file/d/1jwJquv-XRkmKcmnCWC0gURiWFeZODnw-/view?usp=sharing https://sites.google.com/view/dr-shilpi-bhattacharya/study-materials?authuser=0#h.y5ke6d78ccq3</p> <p>Sensor & Transducer (Code- OE-EE-801D) https://drive.google.com/drive/folders/1Bi_NCsHZUkBqtrHR3KsQ6tYpJN2B87zc Digital Control (PE-EE-601A) https://drive.google.com/drive/folders/1JiUno064RckN9I9RxIMQFzTaOGfIFmM7 Control System (PC-EE-503) https://drive.google.com/drive/folders/1fK4D6oAFKv6S-3kVVwCWnDQlgOtZPbG0 Control System Laboratory (PC-EE-593) https://drive.google.com/drive/folders/1npL99R9C2d0bIP34xkUtw__egNiINxwz</p> <p>Digital Electronics https://docs.google.com/presentation/d/1K3pPMZp2SsYB7rgyAilzajV5jEPEwnriRnpE4FfEuzo/e/dit?usp=drive_link</p> <p>Electric Drives https://drive.google.com/file/d/1KEXH8cqm_PutJGybXBugi1Qo4FA7Kfn5/view?usp=sharing</p> <p>Power Electronics https://drive.google.com/file/d/1yjdel-BiY4UJK2C96kpbBQGoPFHDnE0s/view?usp=drive_web&authuser=2 https://drive.google.com/file/d/1VXfTsgdM_f5MDRXTcl-ej6daz3sA2Eb/view?usp=drive_web&authuser=2 https://drive.google.com/file/d/1F5DzeIMLXMdScm4hFn6FIS6RPLACF1Xr/view?usp=drive_web&authuser=2</p> <p>Transformer Design https://rcciit.org/academic/download/ee/Transformer%20Design.rar</p>
2	Hardware Demonstrative Tools	Physical demonstration of cut-out section, 3D models etc	<p>https://www.youtube.com/watch?v=1-yEXm2Qyjo&t=1656s https://www.youtube.com/watch?v=pqtSUxivzMY</p>
3	Software Simulation Tools	Software Simulation tools are used to explain and analyse theoretical concepts for better understanding.	<p>https://drive.google.com/file/d/1Zw6aAV2jYKwrMfgMJosxZ00fp5w37Dc4/view?usp=drive_web https://drive.google.com/file/d/1RGfE9HaFx9mpl8m2bRpQOo5BihWa3mW6/view?usp=drive_web&authuser=2 https://drive.google.com/file/d/1jKNdNLmxO44FrqcLOzgIuVMac6D3TkAq/view?usp=drive_web&authuser=2 https://drive.google.com/file/d/1LyudWAXbcA4qNNBOTnVB1boLKJQ6ur6Q/view?usp=drive_web&authuser=2 https://drive.google.com/file/d/1bgmECTPd8jqntvY5MGU5KSBBrbHyML2E3/view?usp=drive_web&authuser=2 https://drive.google.com/file/d/14rMtSaPTJ7c8riVsTSgrO5pr0TLxdY79/view?usp=drive_link</p>

4	Video Lectures	Students will Listen to Lecture	<p><u>Power Generation Economics</u> https://www.youtube.com/watch?v=aHGXCMM21bM https://www.youtube.com/watch?v=QHMgr6Meb70 https://www.youtube.com/watch?v=BLj19o6Zgik https://www.youtube.com/watch?v=20EsYvEZap4 https://www.youtube.com/watch?v=C8VVvLGbcuI&t=84s https://www.youtube.com/watch?v=MzLJTt70XsE&t=1s https://www.youtube.com/watch?v=cM0_JlocA9w https://www.youtube.com/watch?v=ITfbYy5iyTA https://www.youtube.com/watch?v=2fJqSuQU-p0 https://www.youtube.com/watch?v=QroSZcHCmFg https://www.youtube.com/watch?v=JMX0F3JHEbo https://www.youtube.com/watch?v=hXYB3vuMaYc&t=1991s</p> <p><u>Power Electronics</u> https://www.youtube.com/watch?v=RZL0nSUI5dw&t=2s https://www.youtube.com/watch?v=PvV03gxdgSo https://www.youtube.com/watch?v=z2iZnFU1v_I https://www.youtube.com/watch?v=UoKAZLAj3T8 https://www.youtube.com/watch?v=akZRY1QE9EY</p> <p><u>Digital Electronic Circuits</u> https://www.youtube.com/watch?v=t_RObXGduTY https://www.youtube.com/watch?v=_qqKAAvoyHs&t=1723s https://www.youtube.com/watch?v=Tm5q65NjSBk https://www.youtube.com/watch?v=iaYHHLAT3hU https://www.youtube.com/watch?v=q1utremGUB4 https://www.youtube.com/watch?v=MarLuEPOuCO https://www.youtube.com/watch?v=Mxj9Vz-lr1w https://www.youtube.com/watch?v=fPliks8zSpE https://www.youtube.com/watch?v=iUN4cUEkNN0 https://www.youtube.com/watch?v=wI4WROAH4ps https://www.youtube.com/watch?v=8dE36mY870g https://www.youtube.com/watch?v=_cnR_denKGE https://www.youtube.com/watch?v=xJEOBY6ZAQA https://www.youtube.com/watch?v=Un54LgHWTvc https://www.youtube.com/watch?v=V4axiu7PApc https://www.youtube.com/watch?v=1a26wCgBiZg&t=1566s https://www.youtube.com/watch?v=L-MLRpFWayM https://www.youtube.com/watch?v=6WHelyN79O8 https://www.youtube.com/watch?v=84iXMJRE398</p>
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5.	Google Classroom	Easy dissemination of knowledge to students. Effective and easy communication of	<p>Paper- Power Electronics https://classroom.google.com/u/2/c/NDk2OTk2NDA0NzY5</p> <p>Paper- Electric and Hybrid Vehicles https://classroom.google.com/u/1/c/NDc3MzE4MTY5NzU4</p> <p>Paper-Electric Drives https://classroom.google.com/u/1/c/NjE3Mjc4ODE5OTcw</p> <p>Paper- Digital Signal Processing</p>

		students with faculty.	<p>https://classroom.google.com/c/NjUzNjExOTk2MzA4?cjc=3dpiwyd</p> <p>Paper: Electromagnetic Field Theory (PC-EE303), 2nd Year, 3rd Sem. EE</p> <p>https://classroom.google.com/c/NjE2NDY3MDkxOTM4?cjc=mjvswn5</p> <p>Paper: Renewable and Non-Conventional Energy (PE-EE501C), 3rd year, 5th Sem. EE</p> <p>https://classroom.google.com/c/NjE2NzU2NjcvMTQ4?cjc=pqicfvp</p> <p>Paper: Basic Electrical Engineering LAB (ES-EE191)</p> <p>https://classroom.google.com/c/NjI2MjM1ODE0ODc3?cjc=2mljlm3</p> <p>Paper- Circuit Theory</p> <p>https://classroom.google.com/u/1/c/NjMzMzE0NzM0NDUx</p> <p>Digital Control</p> <p>https://classroom.google.com/c/NDY4NDkyMTE3NjYz</p> <p>Control System</p> <p>https://classroom.google.com/c/NDk3MDM5MzY5MzEz</p> <p>Sensor Transducer</p> <p>https://classroom.google.com/c/NDU4MDM5ODY4MjA1</p> <p>Control System Laboratory PC EE 593 2022 2023 Odd Sem</p> <p>https://classroom.google.com/c/NDk3MDM5MzY5NDk3</p>
6.	G-meet/Zoom Classes	Online Video lectures. Recorded lectures may also be listened by students at convenience whenever required.	<p>https://youtu.be/jUN4cUEkNN0</p> <p>https://youtu.be/2fJqSuQU-p0</p> <p>https://drive.google.com/file/d/1YPw2JwTJS9ADeNp3Mt6wunhhTsiaZHq7/view?usp=sharing</p>
7.	Digital Library	Access to digital library from college premises.	<p>http://dl.acm.org/</p> <p>http://www.library.britishcouncil.org.in/</p> <p>http://jgateplus.com/</p>
8.	E-Learning Resources (NPTEL)	The main objective of the National Program on Technology Enhanced Learning (NPTEL) is to enhance the quality of engineering and science education across the country by developing contents for undergraduate and postgraduate curriculum	<p>https://archive.nptel.ac.in/courses/108/102/108102042/</p> <p>https://archive.nptel.ac.in/courses/108/102/108102145/</p> <p>https://archive.nptel.ac.in/courses/107/106/107106081/</p>

		using video and web - based courses. These courses cover the syllabi prescribed by universities and approved by AICTE. RCCIIT is having NPTEL Local Chapter, It is a partnership between the college and NPTEL.	
9.	Technical Writing	Technical writing enhances subject knowhow and also increases skills in writing technical matters	<p><u>Technical Report Writing for Circuit Theory</u> https://classroom.google.com/g/tg/NjMzMZE0NzM0NDUx/NTI0MTAzMjgxNDU3?authuser=1#u=NTe1OTY0NTQzNzcl</p>
10.	Presentations	Seminar and Presentations conducted on Special topics	<p>https://rcciit.org/docs/activity/A210429.pdf</p> <p>Presentation topics to students https://drive.google.com/file/d/1_oAtI5rfdsmQUCII86WBnXkWjrboqwl/view?usp=drive_web&authuser=2</p>
11.	Project based learning	Hands-on Projects	<p>https://drive.google.com/file/d/1fztLS1IeGvuuNC8mcBWLlFwuoUsWlkcH/view?usp=drive_link</p> <p>https://rcciit.org/downloads/ee_projects.aspx</p> <p>https://drive.google.com/file/d/1MNUy5oP0SmjegLPK0Cj-WNmzdxEW_hf3/view?usp=drive_link</p> <p>https://www.youtube.com/watch?v=jun7idznKqE</p> <p>https://www.youtube.com/watch?v=7pEslkYRLmo&t=47s</p>
12	Tutorial	Problem Solving through Tutorial classes	https://drive.google.com/file/d/1sgS70RjEnMH469tVF9D5jivHmH1wR5_7/view?usp=drive_web&authuser=2
13	Student Workshop	Workshop on theoretical and practical concepts with hands-on practice	https://rcciit.org/docs/activity/A220725.docx
14	Quiz	Online Quiz	<p><u>Electric and Hybrid Vehicles Quiz</u> https://drive.google.com/file/d/1Fvk7meFOJv8RdHrSioRTNnu2q-FxiD/view?usp=drive_web&authuser=1</p> <p><u>Basic Electrical Lab quiz</u> https://forms.gle/5ruzJW6cKVF3uSic7</p> <p><u>Power System II lab exam quiz</u> https://forms.gle/ayLf13oo7tZdG92i9</p>

			<p><u>Digital electronics lab quiz</u> https://forms.gle/x1gcnT6Fs6Ex8ujW7</p> <p><u>Power Generation economics quiz</u> https://forms.gle/aTYrgBktfC4bH6Ba8</p> <p><u>Power System Theory Quiz</u> https://forms.gle/7nWNtQ3h6G7nYrV76</p> <p><u>Digital Electronics Quiz</u> https://forms.gle/9avZ9Men3scqccLd8</p>
15	Industrial Visits	Visit to Industry subject related	<p>https://rcciit.org/docs/activity/A230512.pdf</p> <p>https://rcciit.org/docs/activity/A2206141.pdf</p>