Criteria – 2

Innovative Teaching Learning Process

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institution | Affiliated to Anna University, Chennai

Approved by AICTE & UGC | Accredited by NBA (All Eligible Departments)

Kuniamuthur , Coimbatore - 641 008

SRI KRISHNA

COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institution | Affiliated to Anna University, Chennai | Approved by AICTE & UGC

Innovative Teaching Learning Process

INNOVATION IN TEACHING

Innovations in teaching learning process

Process 1 - Industry drafted CBCS Curriculum: The curriculum and syllabus are revised every year based on feedback obtained from leading industries and academic institutions. Additional credit system is followed, through which the student can choose courses apart from their own discipline and additional credits are provided for such courses.

A Capstone matrix has been prepared for testing the various skill sets required for learning each course and continuous evaluation is done based on the modular assessment method.

The academic and industry experts are officially invited to seek their expertise, recording their feedback. The experts are also invited to share their ideas as a member of the academic body.

The following companies visited the campus for curriculum upgrading.

Virtusa	Accenture	Infosys	ABB	ELGI Equipments	IGCAR
TCS	Siemens	Hyundai	Hirotec	SAMEER	Penta Auto Components
CTS	L & T	Whirlpool	National Instruments	Visteon	Target Corporation
Microsoft	Vmware	Fanuc	Renault Nissan	Shanthi Gears	ENEXIO Power Cooling Solutions
Bosch	ICTACT	Barry Wehmiller International	Aircel	Verizon	IGCAR
HP	Wipro	Hyundai	Alstom	Heterogeneous Communication	Penta Auto Components

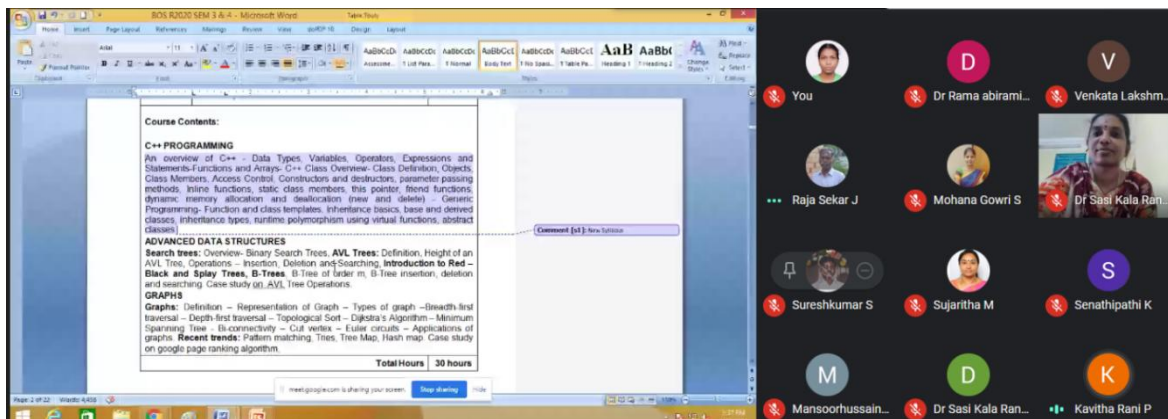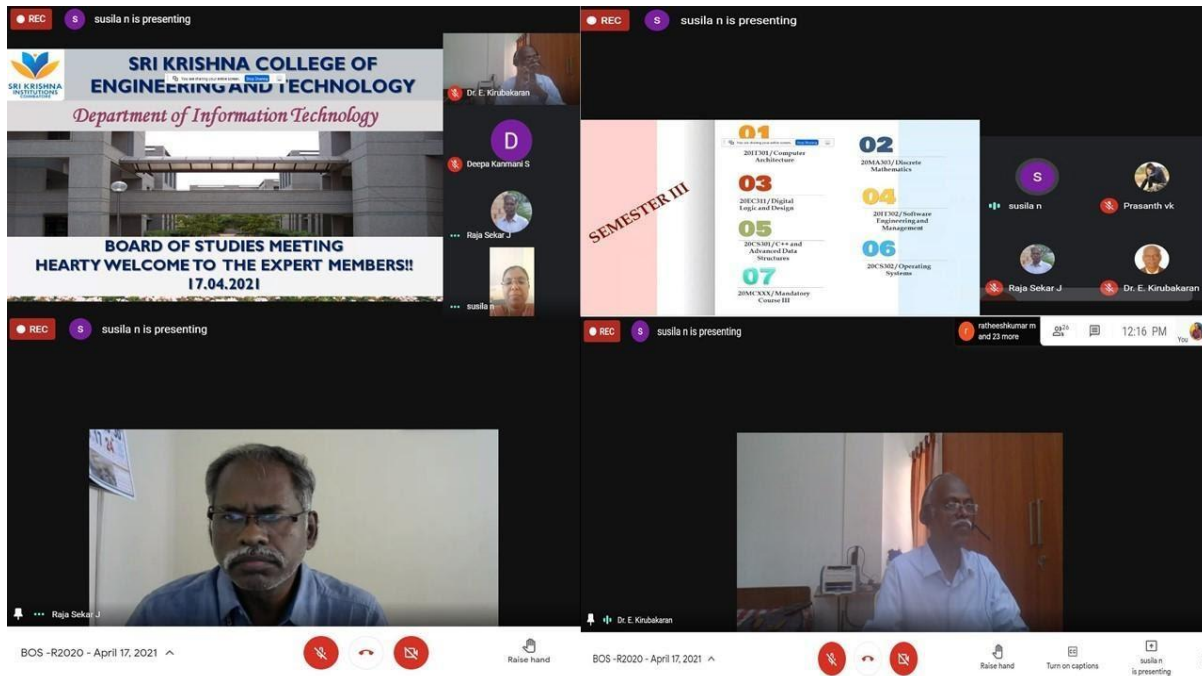

Companies involved in Curriculum upgradation

Board of Studies Meeting conducted online for the department of EEE

Board of Studies Meeting conducted online for the department of EEE

Board of Studies Meeting conducted online for the department of CSE

Board of Studies Meeting conducted online for the department of IT

S.No.	Department	Name of the Expert with Designation	Suggestions regarding curriculum and syllabus	Action Taken on Suggestions
1	B.TECH IT	Mr. V K Prasanth Senior Software Engineer, Amazon, Chennai	20IT403 Web and Java Programming: The experts suggested that Module 2 and Module 3 can be swapped, so that Concepts on Java Fundamentals could be fully introduced after Web Programming Concepts. They also suggested that the topics on HTML, DHTML and XHTML could be moved to Module 1 as part of Basic Web concepts. He proposed that topics on I/O Basics, Applets-AWT-Event Handling could be removed and the topics on Servlets and JSP can be shifted to Module 3.	Experiments replaced and application topics included in syllabus As per the suggestions, the topics have been included in the syllabus.

2	B.E Mechanical Engineering	Mr. A.GOMATHINAYAGAM DGM, Design and Ansys, L&T, Malumichampatti, Coimbatore- 641 050 gomathinayagam.a@larsentoubro.com 9843496557	In Computer Aided Machine Drawing course Introduction to Production drawing can be given.	Introduction to Production drawing is included
3	B.E Mechanical Engineering	Mr. S.S. VIGNESH SNS High Tech Engineering, Ganapathi, Coimabtore- 641006 mickeyvicky@gmail.com , 9894574005	In Lean and Six Sigma course Title can be renamed as Lean Six Sigma	Title is renamed as per the suggestion.
4	B.E Mechatronics Engineering	Mr.G.GowthamSithaarth, (Alumni Expert) Managing Director, Linga Technologies, Tirupur	In Electrical Machines and Power Systems, more importance can be given to Power Systems. Also basics of VFD and Flywheel can also be Included. In Microcontroller and its applications, 8051 topics can be replaced by Embedded Controllers and PIC microcontroller, Arduino Uno can be renamed as ATMEGA microcontrollers, More experiments on Embedded Controllers and ARM Processor can be also included	Suggestions are incorporated. 8051 is replaced by embedded controllers.

5	B.E Mechatronics Engineering	Dr.R.RAMAKRISHNAN (External Expert) Associate Professor, Department of Design & Automation, VIT-Vellore, Tamilnadu	In Thermal and Fluid Engineering, Application oriented topics can be included. CFD in Lab components can be replaced by other experiments. In Theory of Control Systems, Application oriented case studies in Module 2 and Heuristic controllers in Module 3 can be included by compromising nonlinear control part.	Experiments replaced and application topics included in syllabus Application oriented case studies are included in second module and some topics have removed in second module. Fuzzy logic controllers are included in 3rd module.
6	B.E Electrical and Electronics Engineering	Dr.K.Selvaraj(Indus tryExpert) Advisor Solution Architect, DXC Technology,Bengaluru - 560100 9886089575 selvarajkesavan@gmail.com	Measuring Instruments and Smart Sensors: Speed Measurement and Torque measurement can be added in module 1	Speed Measurement and Torque measurement is added in module 1
7	B.E Electrical and Electronics Engineering	Mr. D.Surendran (Alumni) Assistant Engineer/General/CEDC/North, TANGEDCO, Coimbatore. 8870922738,surendrandevarajan@gmail.com	Digital Circuits: Introduction to system Verilog HDL can be included and 8th& 10th experiment can be done using Verilog	Introduction about Verilog is included. Experiments are done using Verilog
8	B.E Electronics and Communication Engineering	Mr.M.Shanmugan (Industry Expert) Senior Manager – R & D, Electronics. Roots Industries, Ganapathy, Coimbatore. Dr.K.Mohandass (Alumni) Assistant Professor/ECE, PSG College of Technology,Coimbatore	To include certification courses at different level of toughness such as beginners, diploma, graduate and specialization for the students	MOOC certification courses are included for the students in the curriculum

9	B.E. Computer Science and Engineering	Mr.S.Rajkumar, Associate Director, Virtusa, Chennai.	In Web Technology course, spring boot framework can be added instead of servlets and lab exercise has to be modified accordingly. Swing or JavaFX can be added in module 3 for "Object Oriented Programming using Java" course	Suggestions incorporated in R2020 syllabus
10	B.E. Civil Engineering	Dr. S. Kalirajan Deputy Dean, L&T Institute of Project Management Chennai, Tamilnadu	20MA401-Prabability and Numerical Methods – IV semester - Course name can be revised including statics along with statics content in the modules	Will be considered in next curriculum and Syllabi revision
11	Master of Business Administration	Mr.Namasivayam Manager (Production), TTK Prestige Ltd , Coimbatore-641 032	Continue the regulations, curriculum structure and syllabi under Choice Based Credit System for MBA programme with a total of 102 credits for the students admitted from the academic year 2020 – 2021 onwards with the minor amendments on additional electives.	Suggestions will be considered
12	Master of Business Administration	Ms.S.Aiswarya Senior Group Leader, HR Business Partner, Access Healthcare, Coimbatore-641004	Additional Electives to be incorporated in curriculum structure	Additional Electives will be included
13	B.Tech Computer Science and Business System	Mr.Asoke Das Sarma, Vice President – Transformation, Consulting and Change Management, Tata Consultancy Services, Kolkatta.	Suggested to reduce the subject load in the final semester and also suggested to keep Advanced Java Programming Subject which is given under Professional Elective, taken up in 5th Semester, for the better development of JAVA programming	The workload for the students in final year has been reduced and other suggestions will be considered.

Center for Deep Learning Lab is incepted to build systems and algorithms to extract knowledge, find patterns, generate insights and predictions from diverse data for various

applications and visualization. The center facilitates survey research, qualitative data collection, and data analysis. The center also develops software tools for multidisciplinary exploratory data science problems.

Deep learning has been used in several places like the self-driving Google car, the online recommendation engines – friend recommendations on Facebook, offer suggestions from Amazon, and in cyber fraud detection. The Deep Learning Lab has been dedicated to fundamental research in data science, complex intelligent systems, Computer vision and Natural Language processing application.

Centre for deep learning designed based on the comments from experts

Process 2 - Smart Class Rooms and Technology Enabled Learning: Studies have shown that using smart technologies, like the smart boards in the classrooms have improved the success rate. These interactive boards provide an extraordinary opportunity for teachers to create a classroom environment where students with different learning styles can learn from each other.

An online platform like 'Google Classroom' is an easy way to share course materials and assignments with the students as it is super user-friendly.

Number of Google Classrooms used for Technology Enabled Teaching in the year 2020-21
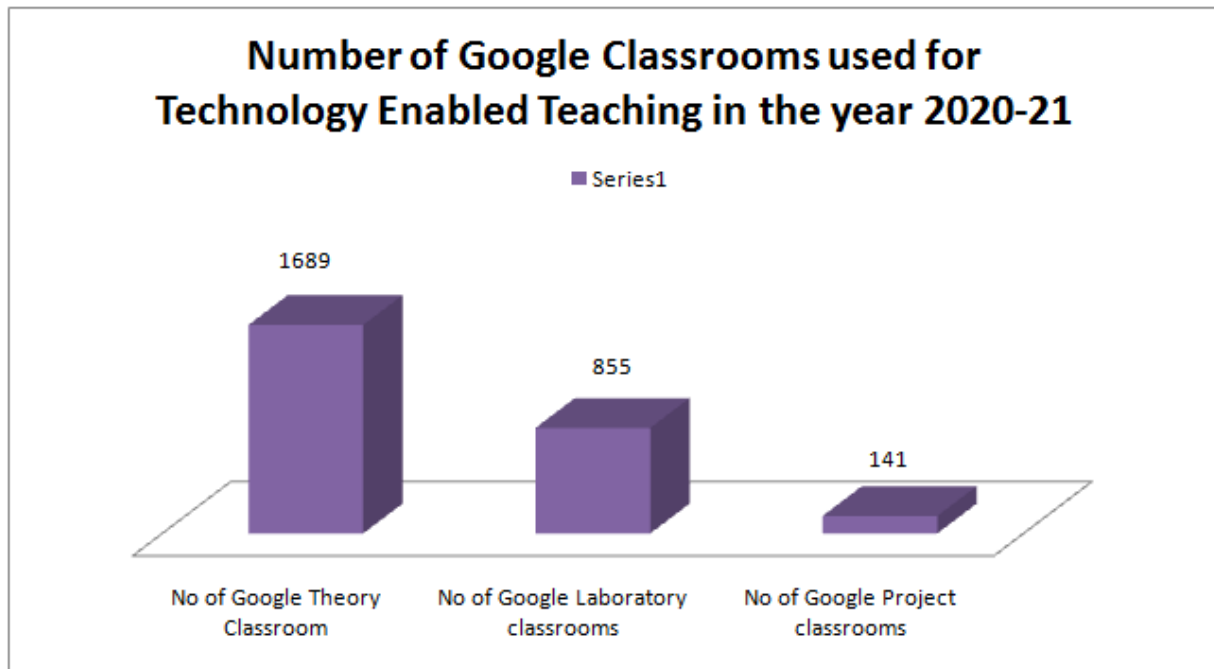
A Google Classroom of our subjects are expected to have the following features:

1. Course Description
2. Syllabus
3. Course Information
4. Subject Module with presentation, quiz, high-order thinking questions and relevant videos
5. Internal marks and attendance details
6. Higher Education perspectives of the subjects including Jobs and Studies
7. Assignment questions with CO-PO mapping
8. Research perspectives with information on Journals and Conference for further study
9. Details on Virtual Labs
10. Class recordings

Snapshot of GCR showing the video demonstration for the subject of Automotive Electronics

Snapshot of GCR showing the virtual lab and real-time projects for the subject of Automotive Electronics
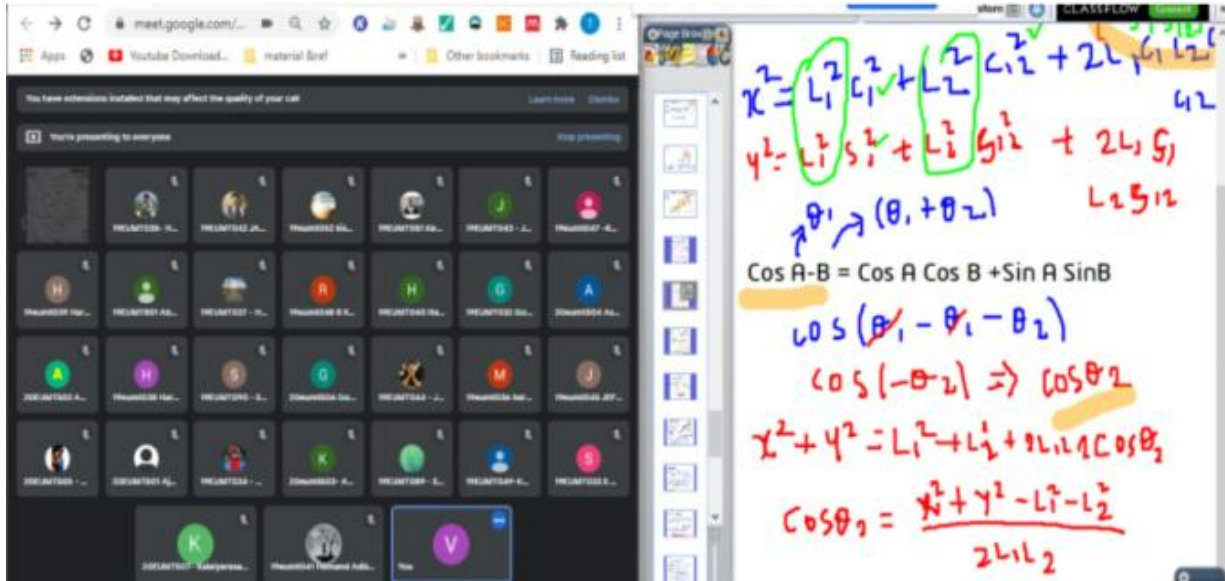
Screenshot of the GCR with use of a whiteboard for explaining the equations in numerical based subjects.
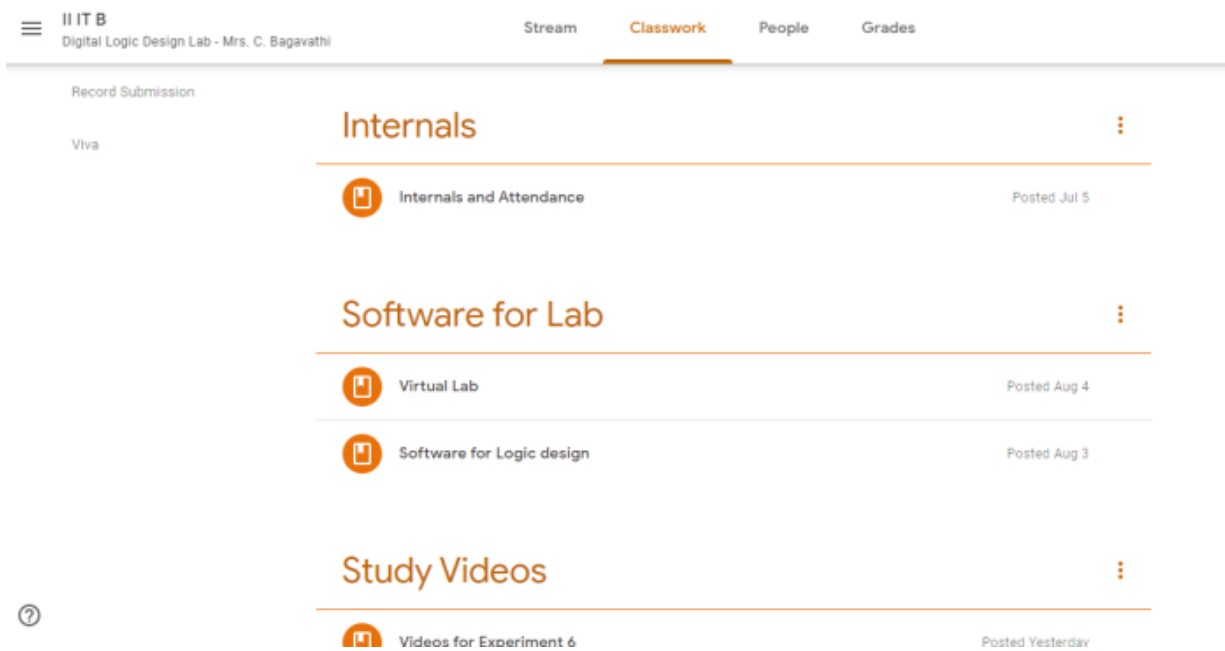
Screenshot of the GCR with software files for lab conduction.
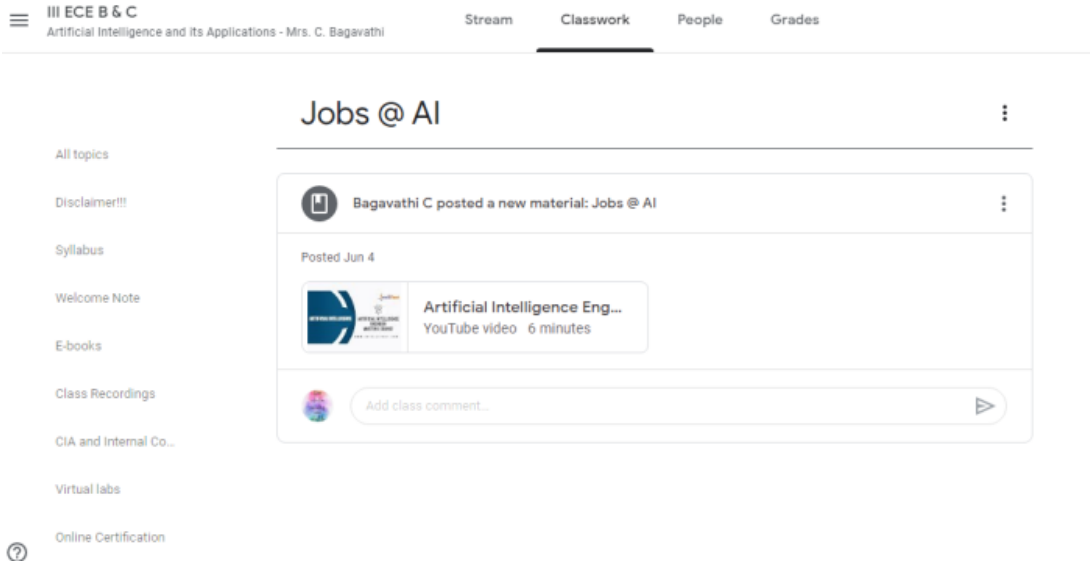
Screenshot of the GCR with details on Jobs related to the subject creating awareness.
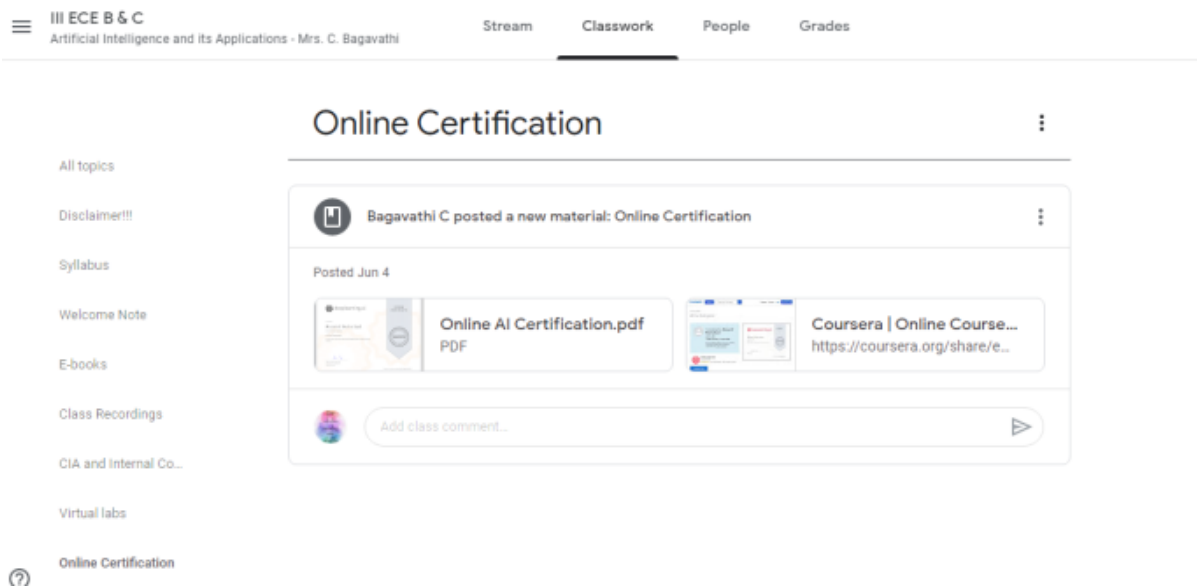
Screenshot of the GCR with a list of online certifications related to the subject which can help the student gain more knowledge in the domain of the subject.
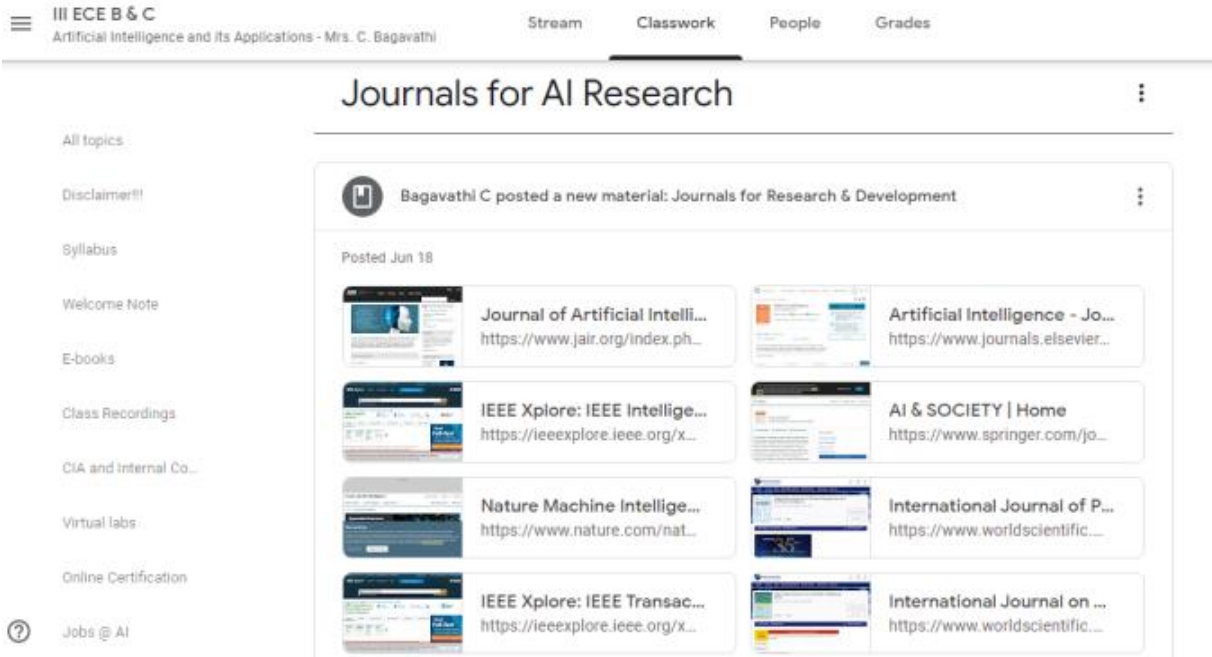
Snapshot of GCR showing the details on Journals with the aim that the student can research relevant fields based on the subject.
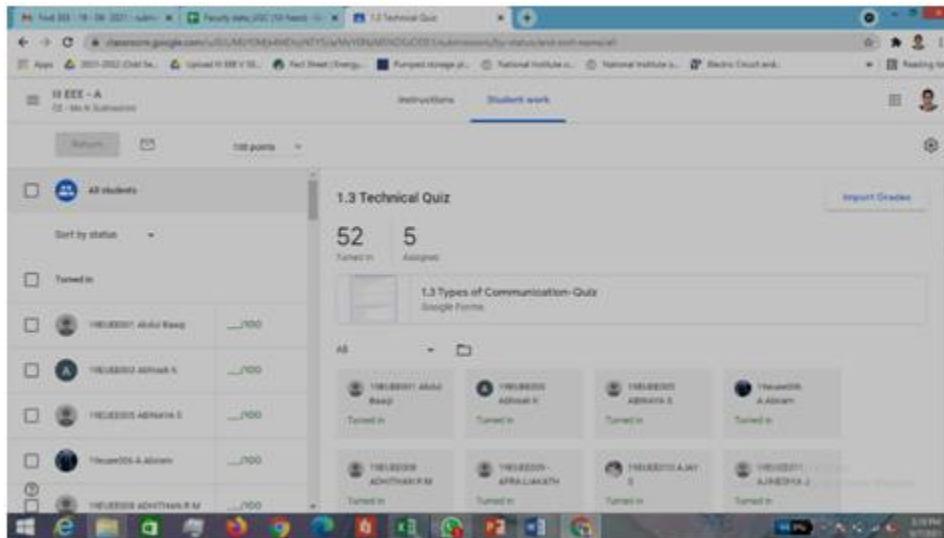
Capstone model for evaluation

Process 3 - Outside Classroom Learning: Hands-on learning has its own importance in the career of a student pursuing a professional degree. It is considered as an integral part of college

13

curriculum and the objective of outside classroom learning/field visit is to provide students an insight regarding internal working of companies.

MECH - STUDENT INDUSTRIAL TRAINING

Second year students from the Department of Mechanical Engineering underwent hands-on training at Karivardhan Vocational Training Institute. Students gained practical knowledge on 'Dismantling and Assembling of IC Engine & Gear Box'.

14

Third year Civil Engineering students are taken to SriVariEkantam (Luxury Villas) Ramakrishna Mills, Sathy road for Outside classroom learning experience for the subject Design of Reinforced Concrete Elements. Students got exposure to reinforcement practices of footing, column, beam and slab.

Second year Civil Engineering students Outside Classroom Learning Experience took place at Varma Ready Mix Concrete plant located at Pattanam Peerevu, Near Vellalore, Coimbatore. During the visit L&T team was invited by RMC plant in-charge to enlighten about the drainage project happening at Kovaipudur and the role of Varma RMC plant in supplying concrete to the sewage construction. This visit gave students an opener for the vendor selection and importance of planning drainage facility for the metropolitan city.

As a part of Outside Classroom Learning Experience, third year students from Department of Civil Engineering were taken to **SreeDaksha " Arcis "** - a residential apartment

Process 4 - Industry Partnered Programmes: Institution offers two programmes partnered with leading industries, viz, TCS and Virtusa Corp.

1.B.Tech (Computer Science and Business Systems) in association with Tata Consultancy Services (TCS)

SKCET is the only chosen Institution among all the Institutions in South India, to jointly offer exclusive B.Tech Degree programme in Computer Science and Business Systems in partnership with TCS Ltd

Curriculum Discussion with Shri.Ranjan Bandopadhyay, Global Vice President, HR, and Shri.Asoke Das Sarma, Vice President, Transformation, Tata Consultancy Services Ltd.,

2.M.Tech Computer Science and Engineering (5 year Integrated) Programme in association with Virtusa Corporation

Interaction of Smt.S.Malarvizhi, Chairperson and Managing Trustee, SKI and Dr.J.Janet, Principal of SKCET with Prof.D. Anil Sahasrabudhe, AICTE Chairman and Shri.Madhavan Seshadri, Senior Vice President, Virtusa Corp and Shri.Krithivasan S, HR Team, Lead India Campus Hiring, Virtusa Corp

Curriculum Discussion with Shri. Aswin Sadasiv, Vice President & Head of Application Engineering, Shri.Krithivasan S, HR Team, Lead India Campus Hiring, Shri.Suvakaran Ravindran, Senior Manager & Practice ATC Lead, Smt.Swetha V, HR Team GTP, Virtusa Corp. Subjects Introduced : JEE Framework, Software Design with UML, Agile Technology, Software Performance Testing and BlockChain Technology

Process 5 - Project based Courses and Mandatory Internship: Project based courses are introduced in the curriculum/syllabus where students have to complete a project while doing the

course. As learning is not complete unless the students understand the requirements of industry, 21 days mandatory internship is also prescribed in the curriculum. Eight semesters are also earmarked for internships and projects. Mandatory courses are added for the students to get trained in the current topics and domains through MOOC certifications or regular courses.

SL. No.	Course Code	Course	L/T/P	Contact hrs./wk.	C	Ext./Int.	Cat.
SEMESTER II							
THEORY							
1	18MA201	Integral Calculus and Complex Variables	3/1/0	4	4	50/50	BSC
2	18SB201	Engineering Biology	2/0/0	2	2	50/50	BSC
THEORY CUM PRACTICAL							
3	18CH101	Engineering Chemistry	3/0/3	6	4.5	40/60	BSC
4	18EC201	Electron Devices	3/0/3	6	4.5	40/60	ESC
5	18EN102	Technical Communication Skills	2/0/2	4	3	40/60	HSMC
LABORATORY COURSE							
6	18ME111	Engineering Graphics	2/0/2	4	3	40/60	ESC
MANDATORY COURSE							
7	18MC201	Mandatory Course II(Environmental Sciences)	2/0/0	2	0		MC
		TOTAL	17/1/10	28	21	600	

Syllabus 2018R including Mandatory courses
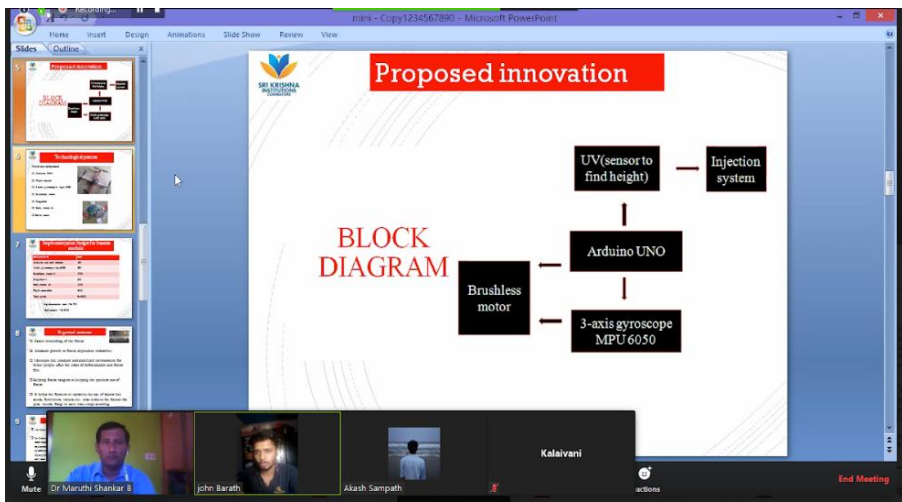
Project presentation in online mode
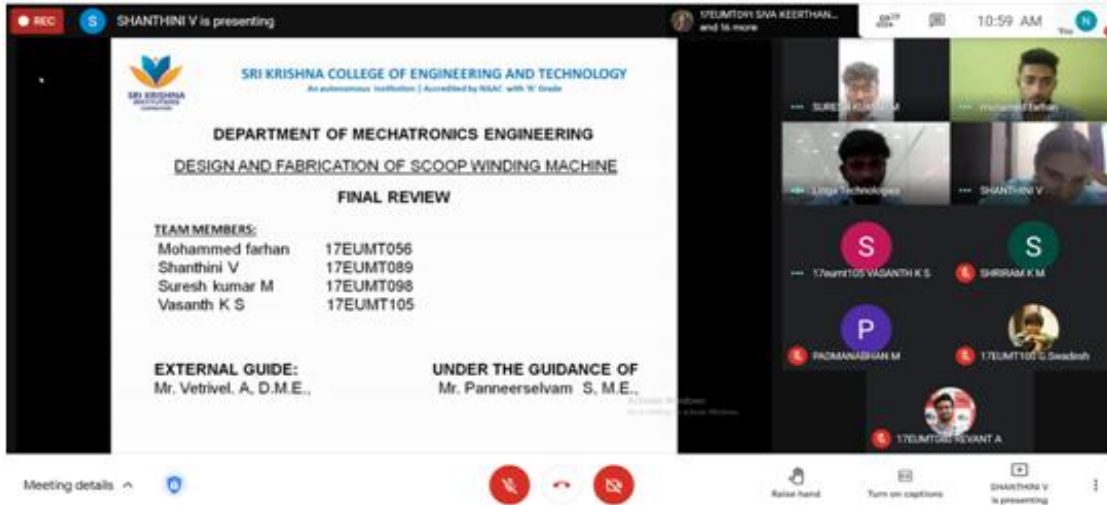
Project presentation in online mode

Project presentation in online mode

Sample internship certificates

Sample internship certificates

Process 6 - NPTEL-SWAYAM and MOOC Certification: In order to improve the quality of engineering education and to inculcate self learning capabilities, the students and faculty members of our Institution are encouraged to undergo online courses from various learning resources like SWAYAM-NPTEL, edX and Coursera.
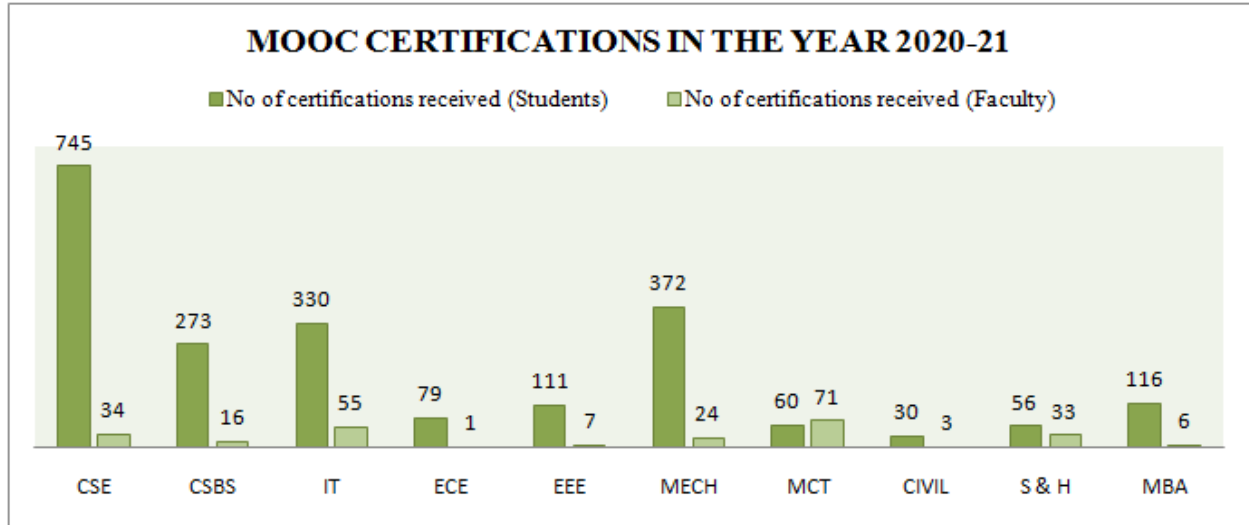
List of MOOC certifications received by students and faculty members in the year 2020-21
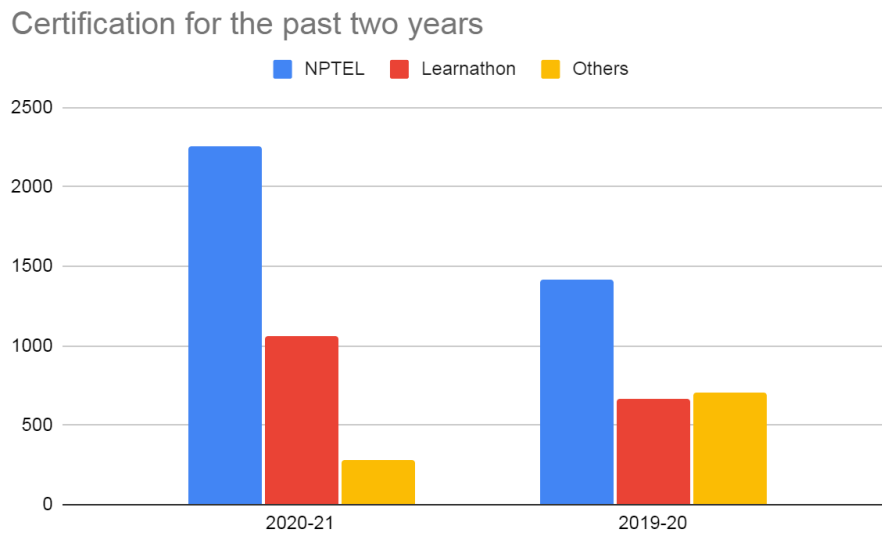
List of certifications received by the learners of SKCET in various learning platforms such as NPTEL, Coursera

Sample certificates under various learning platforms

Process 7 - Snap Talk: Students are motivated to share their thoughts for a duration of 2 – 5 minutes during the regular class hours in order to improve their speaking skills and confidence level.

The art of public speaking is essential for an engineer in giving out his ideas for approval and credit. As the importance of English language in placements and curriculum are being stressed, the way of communication in a public domain with appropriate body language and soft skills are envisioned through snap talk practices. The snap talk is conducted every semester for each student and the performance will be evaluated through rubrics.

Rubrics for snaptalk evaluation:

- Fluency in English and Grammar (2)
- Content of the Speech (2)
- Body Language (1)
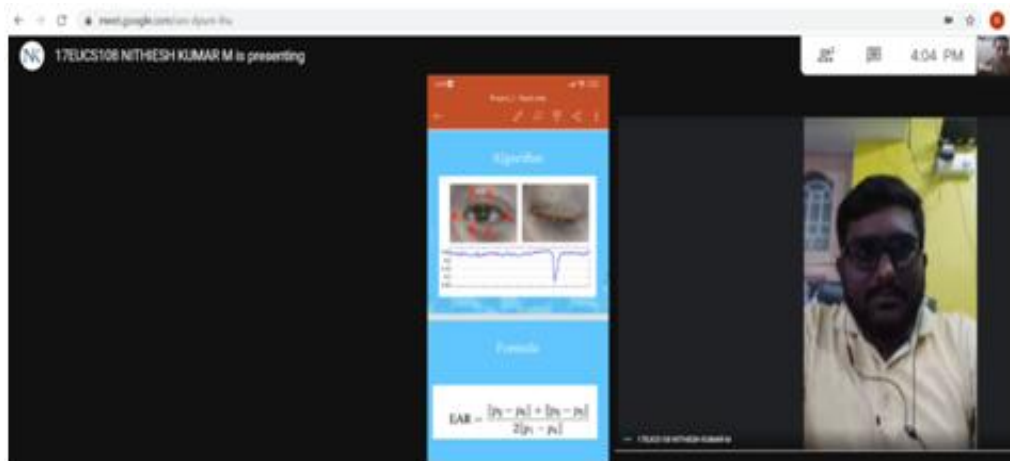
Snaptalk through online mode

Snap talk in class

Snap talk in class

Process 8 - Business English Certificate: In today's world of globalization, good communication skills in English language play an important role in international business.

Therefore, the Institution offers Business English Certificate (BEC) training, in association with Cambridge University, to all the students.

Cambridge English examinations were introduced to the students of the Undergraduate streams from the academic year 2014 as a part of curriculum. Our student community is being encouraged to improve their levels from B1 to B2 by emphasizing the importance of interview skills and professional skills. Our college has obtained the highest results in the history of Cambridge. The design of the courses and the lesson plan support the students to understand the work environment from clients' perspective in a better way. Our college focuses on improving the students' strength that builds upon professional skills practically. Cambridge examinations were introduced for the standardised international testing system through Online Based Test (OBT) which is linked to the CEFR international benchmarks. These exams are conducted by utilising many laboratories inside the college that increases the usage of computer knowledge among students.

BEC Awards presented to SKCET

SKCET students taking BEC exams

Offline BEC classes
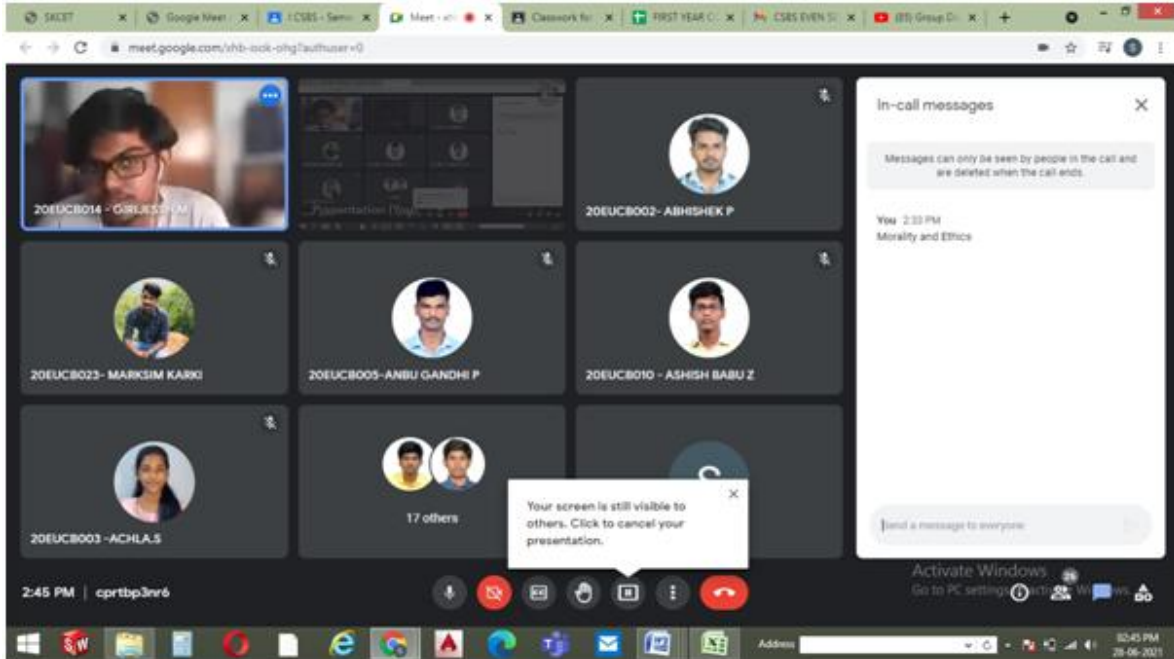
Online BEC classes through google meet

BEC Exams conducted in labs

Business English Certificate (BEC) examinations were introduced to the students of the Undergraduate streams from the academic year 2014. All successful candidates will receive a certificate from Cambridge English Language Assessment.

The examinations for Business English Certificate will be held on fixed dates which are decided by Cambridge English Language Assessment. The speaking test will be organized during the speaking window period which is usually five days either before or after the Reading, Writing and Listening test.

For every first year student, a diagnostic test will be conducted in order to identify the challengers and creamy layer of students. As a result, training will be provided accordingly by the English faculty members of Sri Krishna College of Engineering and Technology.

The first **BEC Preliminary** Certificate Examination was held during the month of march, 2015 in our college premises. **Bec Vantage classes** were introduced for the II year B.E/B.Tech students from 14/9/15 onwards. The registered students details are given below:

S.No	Month and Year	Registered Count	Exam Category	Contact Hours
1.	March, 2015	1057	BEC Preliminary	5
2.	November, 2015	1022	BEC Preliminary	4
3.	May,2016	803	BEC Vantage	3
4.	May,2016	131	BEC Preliminary	3
5.	July, 2016	292	BEC Vantage	3

6.	July, 2016	42	BEC Preliminary	3
7.	November, 2016	505 (Batch A)	BEC Vantage	3
8.	November, 2016	103 (Batch A)	BEC Preliminary	3
9.	November, 2016	1039 (Batch B)	BEC Preliminary	4
10.	May, 2017	496	BEC Vantage	3
11.	May, 2017	86	BEC Preliminary	3
12.	March, 2018	30	BEC Vantage	2
13.	March, 2018	65	BEC Preliminary	2
14.	March, 2019	30	BEC Vantage	2
15.	March, 2019	68	BEC Preliminary	2
16.	March, 2020	35	BEC Vantage	3
17.	March, 2020	70	BEC Preliminary	3

Process 9 - Industry Offered Value added courses: Value added courses are offered by all departments to improve the employability skills of students and enable them to understand the industry expectations. MoUs are signed with industries like Virtusa, Zoho, Infosys, Barry Wehmiller and Seine Aerospace to offer training to the students in order to make them industry ready from Day 1 onwards.

MOU details with BSNL

MOU details with Tessolve

Process 10 - Effective Placement Practices:

Practice	Company	Outcome
CoE	Virtusa, Aspire Systems	125 students have got offer
MoU	Intain, Vuram, Hexaware	68 students placed
Train the Trainer	Infosys, Wipro, Virtusa, TCS	70 + faculty members trained
MOOC/Certification courses	Coursera, Edx , Wipro Futureskills, Nasscom	1500+ students have completed more than 5 online courses
Industry Enabled Technical training	CTS Nurture, Infosys, Hackerearth, Hackerrank, Leetcode, Codechef	2500+ students benefited
Cognitive Skill training	Company specific Training – Quants , Verbal & reasoning	Every year 1000+ students are trained
Hackathons by leading Industries	Virtusa, Infosys	25 students have got internship + full time offer
Incubation cell	Intain –Block chain	Gave insight about industry environment and live projects

Train The Trainer - To depute faculty to undergo Industry based training to incorporate a mutual association between the Institution and industry in terms of placement, skill training and research.

COMPANY	TRAINING OFFERED	FACULTY TRAINED	STUDENTS TRAINED
Wipro Technologies	Wipro PRP	3	300
Wipro - Nasscom	Future Skills	5	1200
Infosys Ltd.	Campus Connect	5	300
Aspire Systems	JAVA	2	25
Virtusa	Full Stack	2	51
Hexaware	Web & Sql	2	32

Test Platforms

Skillrack Platform

Examly Platform

Guvi

Expanion

Hackerrank

Hacker earth

Process 11 - Keeping up with Technology:

CENTER OF EXCELLENCE ON PCB AND ANTENNA PROTOTYPING (2020-21)

NVIS, Model 72 PCB Prototype MAchine Working area(X x Y x Z) : 230x200x15mm
Minimum drill hole size : 0.3 mm
Minimum cutting trace/space : 0.2mm (8mil)
X/Y Resolution : 0.006 mm
Spindle speed (Max. RPM) : 25000 rpm
Spindle Motor : BLDC Motor
Depth sensing and adjustment : Automatic,
Software controlled
Tool change : Manual Tool holder : 1/8 inch
Auto Bit protection : available
X/Y/Z driver : Stepping Motor
MITS - PCB and Antenna Prototyping
Includes Electroplating System and copper clad board with drill bit set
PCB prototype Milling Machine with CNC GRBL Milling and Laser Engraving

CENTER OF EXCELLENCE ON CST SIGNAL INTEGRITY AND RF ANALYSIS (2020-21)
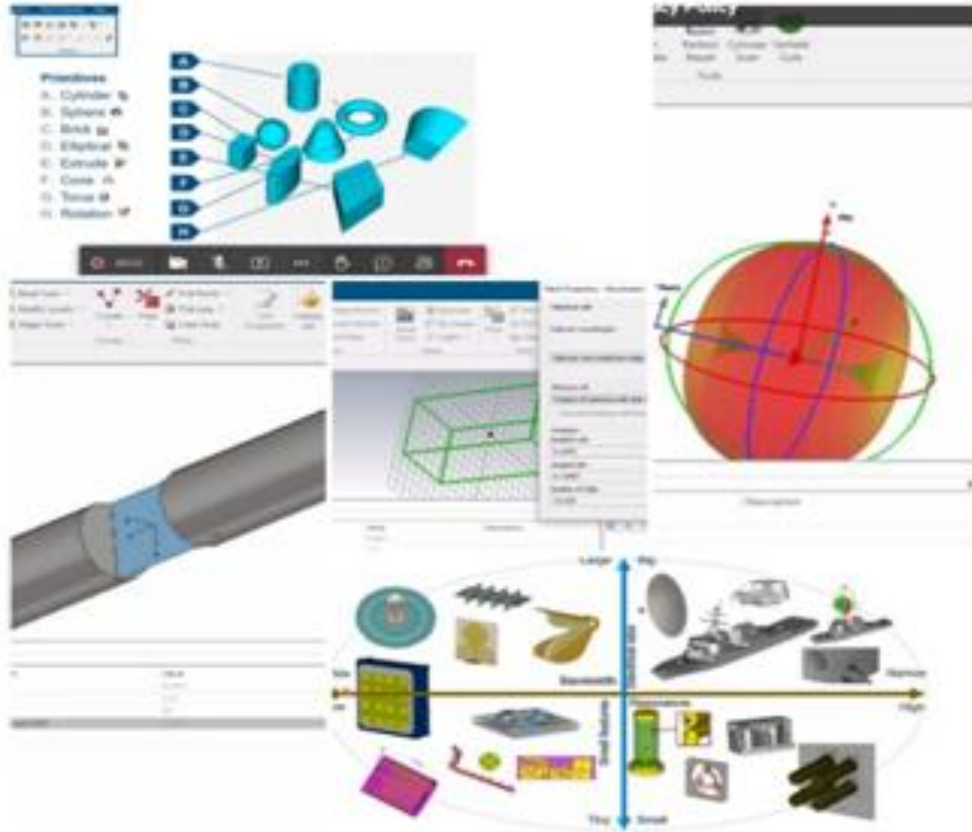
Industry-level platform for designing of Antenna and analysing the signal integrity of the device
Computer Simulation Technology
5CB-S2R-1, CST Studio Suite Research Base Pack
5CB-S2A-20, CST Studio Suite Teaching Base Pack

CENTER OF EXCELLENCE IN AUTO COMPONENTS DESIGN

JANET

 A visit to Macbro Technology India Private Limited (Design wing of Sanko - JAPAN) was made on 14.08.2021 to establishCentre of Excellence in Auto components design.

Process 12 - Webinars:

A webinar is an online event that is hosted by an organization/company and broadcast to a select group of individuals through their computers via the Internet. Webinars have an audio and visual component improving the reach of the concept that is being delivered.

Webinar includes engaging online events where a speaker, or small group of speakers, deliver a presentation to a large audience who participate by submitting questions, responding to polls and using other available interactive tools.

Webinars have been conducted in our SKCET since 2018-19 with more than 100 resource persons all around the world giving technical or soft skill lectures and sessions for the benefit of students. The resource persons were selected from various reputed industries and institutions to provide the current technological insights for the students to pursue. The webinars are conducted at each department targeting the students in a specific research interest. The topics of webinars range from technical domain to personality development including career options.This method increases their placement capability.

Department : ECE

Event: VC Funding Opportunity for Early Stage Entrepreneurs

Date: 27.03.2021
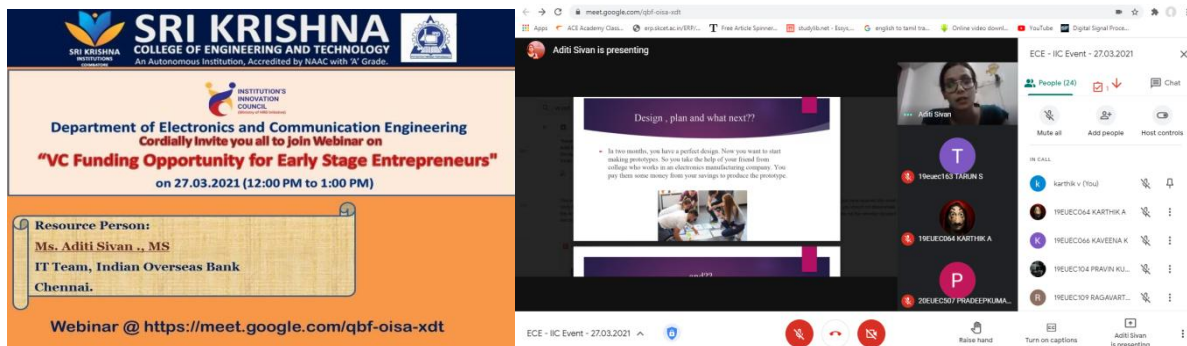
Department: MTech CSE
Event: Webinar on Core Java: Lambda Expressions and Streams Functions
Date: 23.3.2021

Resource Person

Ms.S.Mohana Priya,

Senior Architect,

Virtusa, Chennai.

Department: MTech CSE
Event: Webinar on CARBON NEUTRAL CAMPUS - Enhancing Open and Inclusive Processes to Strengthen Data and Information Exchanges
Date: 20.3.2021
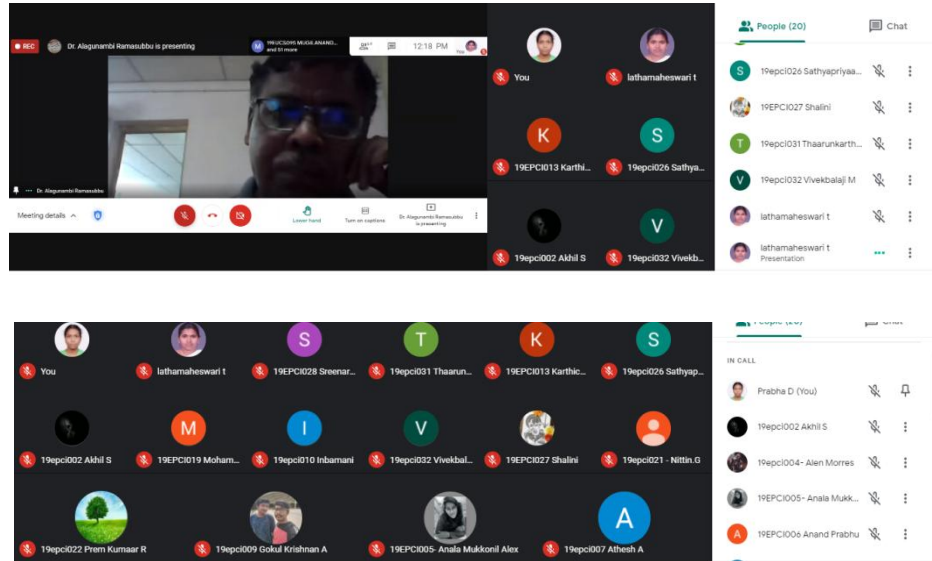
Resource Person - Dr. A. RAMASUBBU, Asst. Professor of Chemistry, Govt. Arts College, Coimbatore.

Department: MTech CSE
Event: Webinar on Design Patterns Applicability
Date: 16.3.2021

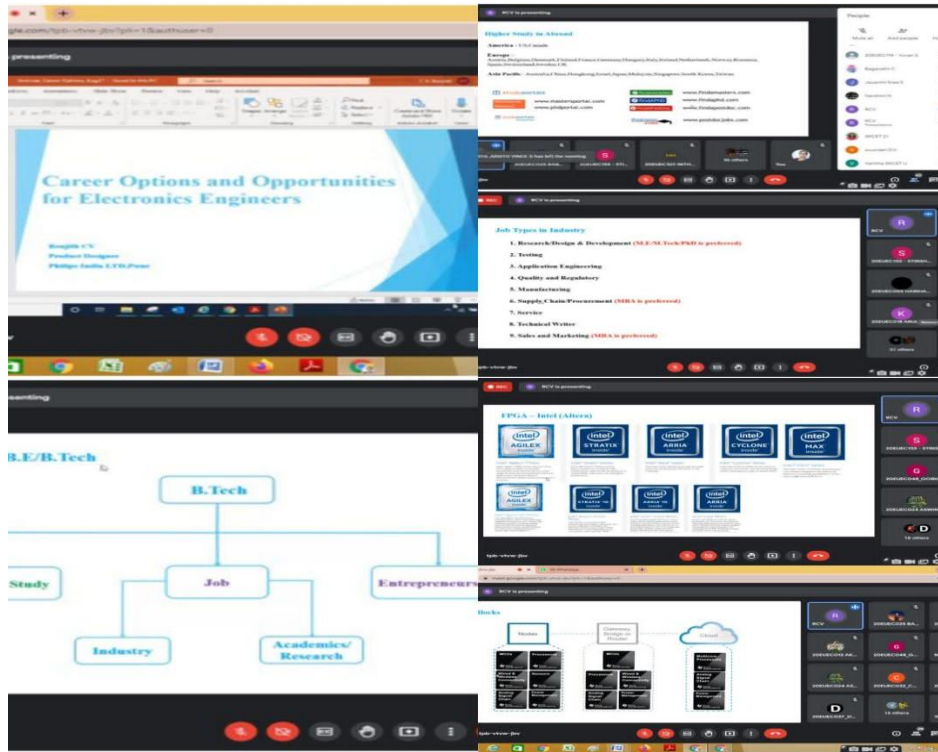Resource Person - Mr.S.Rajkumar, Associate Director, Virtusa, Chennai.

Department: ECE
Event: Webinar on Career Options and Opportunities for Electronics Graduates
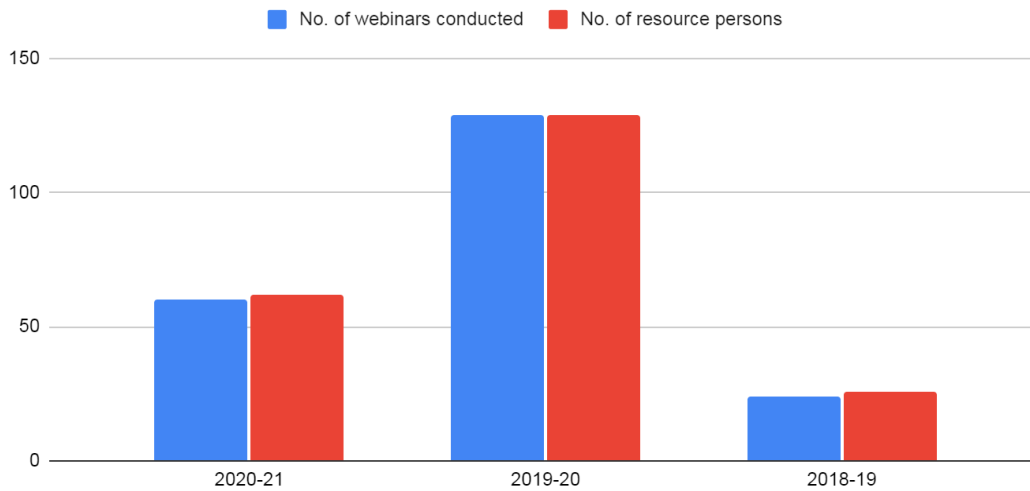Date:
26.8.2021

Resource Person: Mr.C.V.Renjith, Electrical Architect/ Product Designer, Philips India LTD, Pune

Webinars conducted in the past three years

Process 13: Professional Clubs:

Professional clubs inculcate a technical awareness and competitive spirit in the students. THe professional clubs include a variety of clubs specifically for non-curricular activities such as Music, Arts, literary for the wholesome development of the students.

Number of events conducted as a part of club activities
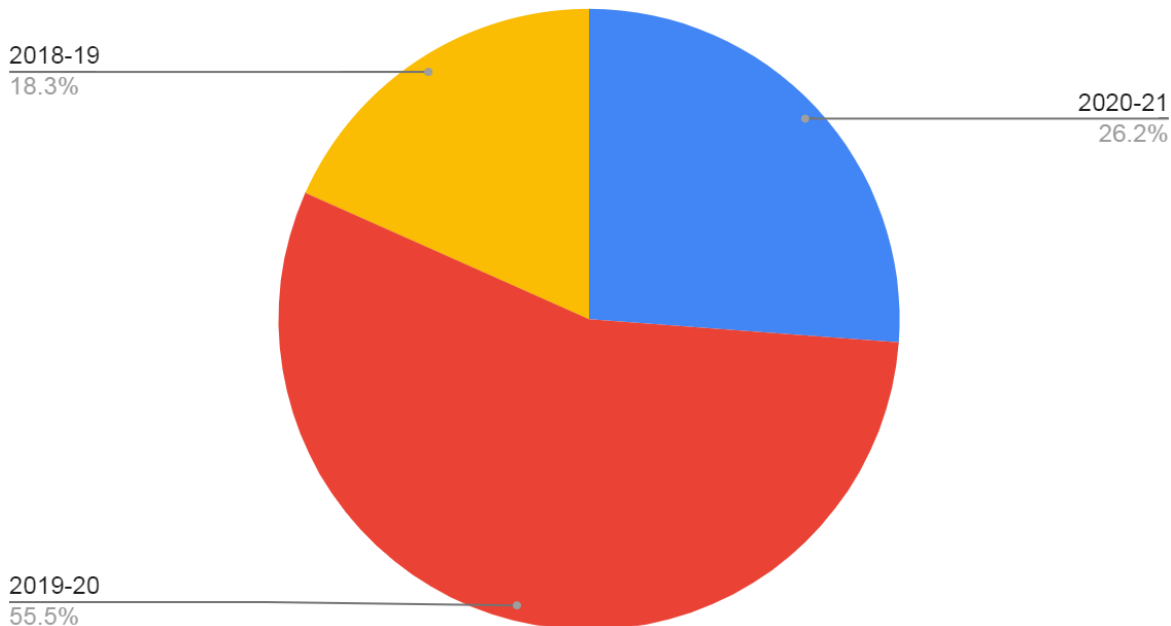
Sl.No	Name of the club	Focus of the club	Departments
1	Institute of Indian Foundrymen (IIF)	Technical	Mechanical
2	Society of Automotive Engineers (SAE)	Technical	Mechanical
3	Society of Automation and Robotics (SAR)	Technical	Mechanical
4	Centre for Innovation club	Technical	MCT
5	R & I CLUB	Technical	Civil
6	Eco Green Club-Manvaasam	Social Development	Civil
7	CESA -Photography Club	Artistic	Civil

8	Eagai-Social Club	Social Development	Civil
9	Astronomy Club	Non- Curricular	ECE
10	Hobby Club	Non- Curricular	ECE
11	RED Cell	Social Development	ECE
12	Energy Audit Cell	Co-Curricular	EEE
13	Technical Club	Co-Curricular	EEE
14	Hack Club	Technical/Coding	CSE
15	DREAM DICTO	Non- Curricular	IT
16	PICARTO	Non- Curricular	IT
17	THINK IN A WINK	Co-Curricular	IT
18	Marketing club	Co-Curricular	MBA
19	HR club	Co-Curricular	MBA
20	Finance Club	Co-Curricular	MBA
21	Tamil Mandram	Non- Curricular	Science & Humanities
22	Literary Club	Non- Curricular	Science & Humanities
23	Fitness club	Non- Curricular	Science & Humanities
24	Fine Arts Club	Non- Curricular	Science & Humanities
25	Science Club	Non- Curricular	Science & Humanities
26	Creative Club	Non- Curricular	Science & Humanities
27	ECO Club	Non- Curricular	Science & Humanities
28	Innovative Club	Non- Curricular	Science & Humanities
29	Language Club	Non- Curricular	Science & Humanities
30	Theatre Club	Non- Curricular	Science & Humanities
31	Cyber security Hub	Technical	CSBS

JANET

Event: Star watch
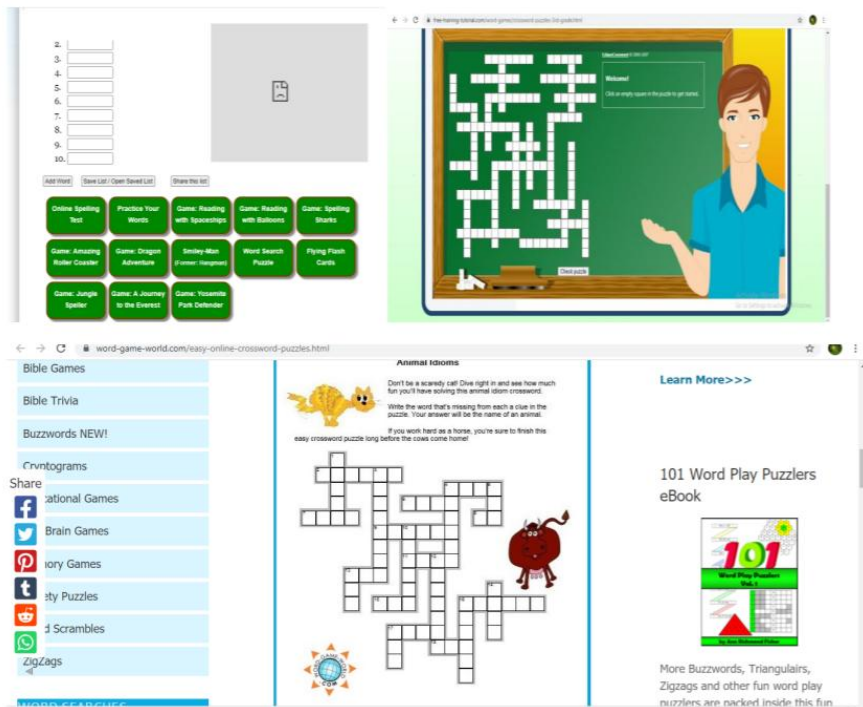
Date: 19.7.2019

Club: Astronomy club

Event: Crossword puzzle event

Date: 7.11.2020

Club: Hobby club

Process 14: Flipped Classroom:

Flipped classroom is a "pedagogical approach in which direct instruction moves from the group

learning space to the individual learning space, and the resulting group space is transformed into

a dynamic, interactive learning environment where the educator guides students as they apply concepts and engage creatively in activities.

The subjects are taken in the flipped classroom mode with the materials of upcoming classes, assignment, case studies and quizzes. The students are encouraged to learn the basics of the concepts for the subjects to be taken in class before the actual class session. This method encourages the students to understand the concept easily and can improve the involvement of students in studies.

Snapshot of GCR showing the topics added before the commencement of classes

JANET