



# Learning Augmented 2.0

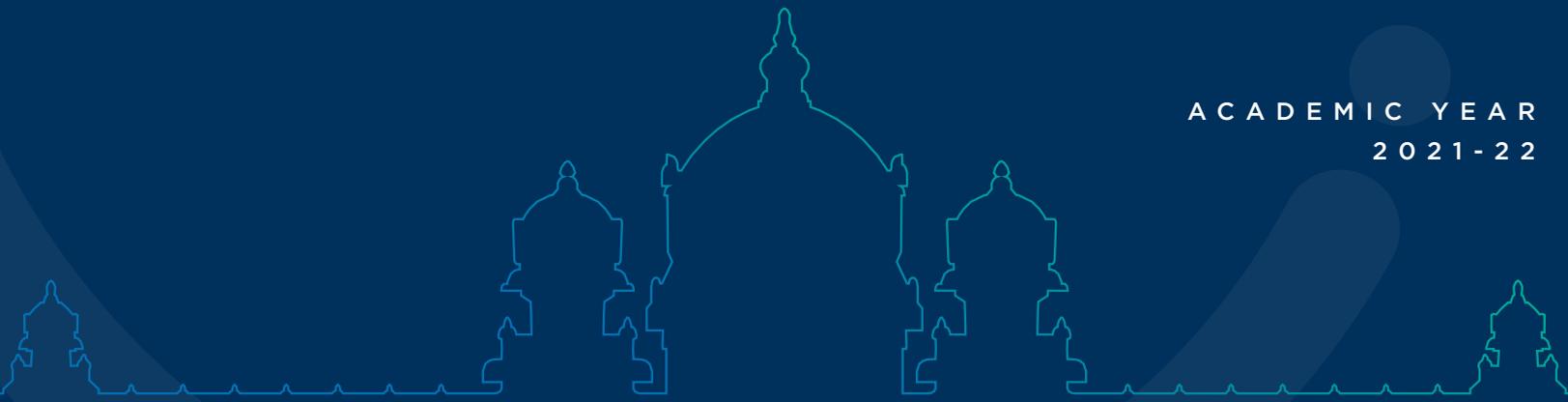
**KCED**  
Learning Augmented

**KUMARAGURU**

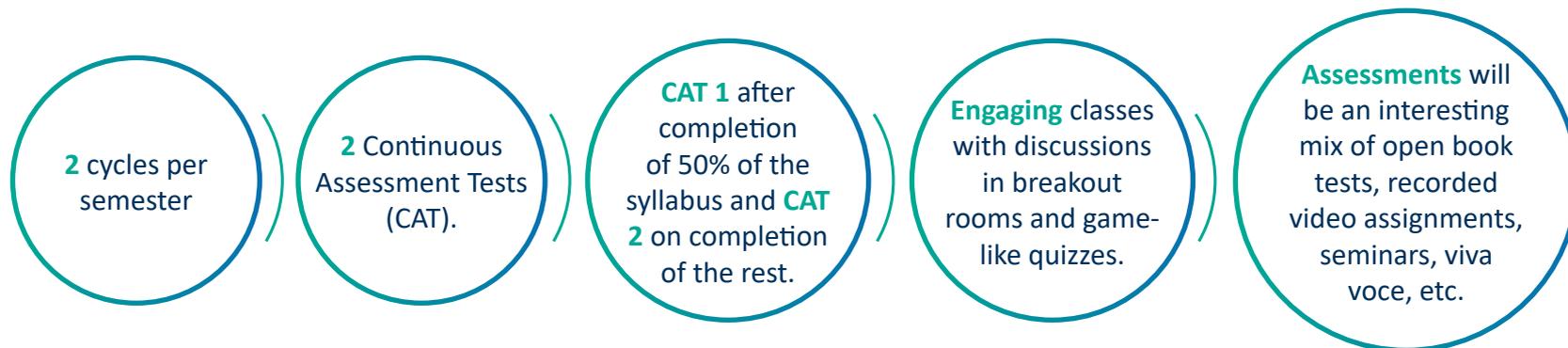
**ONLINE EDUCATION**

AN ENHANCED VIRTUAL LEARNING EXPERIENCE

ACADEMIC YEAR  
2021-22



KOED 2.0 aims to enhance the learning experience of students by enabling an engaging online-classroom environment. Based on the inputs from students, faculty, academic experts, industry partners and other stakeholders, the processes of KOED have been enhanced to make learning more effective. The enhancements are:



## Course Calendar: AY 2021-22 (Odd Semester)

CYCLE	MODE	COURSES	TENTATIVE DATES
1	Blended Online Learning	Three / Four Courses	16th Aug to 13th Oct 2021
2	Blended Online Learning	Three / Four Courses	20th Oct to 17th Dec 2021

End Semester Exam (ESE) will be conducted as per Government order & University notifications.



Scan the QR Code to view the academic calendar and the Tamil version of the KOED 2.0 booklet.

இக்கல்வி ஆண்டிற்கான நாட்காட்டி மற்றும் KOED 2.0 கையேட்டின் தமிழ் பதிப்பைக் காண QR குறியீட்டை ஸ்கேன் செய்யவும்.



## Testimonials on KOED

Q “Kudos to Project Germinate for giving fantastic support to us through KOED, to ensure a smooth transition from regular classes to online classes. I personally thank all the members of the team for their tireless work that made things extremely easy for us.

***The async material prepared for all courses will be an asset even after regular classes resume.*** The online tests have helped the students enormously to prepare for ESE. They have also helped us to think out of the box while preparing questions. Best wishes for your work in the forthcoming semester”

– **Dr. A. Santha,**  
*Associate Professor, Department of Mathematics – SFS*

Q “***First time I positively experienced the concept of Blended Learning at KCT in my 20 years of teaching career.*** The online mode of Blended Learning structure is carefully conceived and ultimately delivered by the KCT faculty team led by Dr.Vinohar Stephen Rapheal. As an advisor and mentor, I feel that the students of KCT have well received the teaching methodology during this pandemic situation. My heartfelt appreciations to the entire team”

– **Dr.Gopinath B,** *Associate Professor, ECE*

Q “The online mode of education powered by KOED is very structured and organised. The timetable is well planned with breaks in between making it convenient for us to attend classes. The assessment plan of sync and async tests, the marking schemes are also made transparent to us which helps us be well-prepared in advance and also gives a scope to improvise. Biggest plus point is that we are not burdened with too many working hours a day and the schedule is framed in a way that it does not make it hectic for us. Overall, the whole structure is very well made keeping the convenience of students in mind”

- **Shruthi S,** *3rd year B.Tech Biotechnology*

# Digital Platforms for Learning and Emotional Wellbeing



Kumaraguru's Integrated Technology for Education(KITE) is the one which integrates all the modules and functionalities of the college into a single system. Through KITE, students will be able to access the following details



## Microsoft Teams

Kumaraguru Institutions has entered into a partnership with Microsoft to create collaborative classrooms. Students and faculty can seamlessly work together and share resources, all from a single, easy-to-learn and simple-to-use platform. Some of the interesting features are:

- Enhanced virtual learning experience
- Real-time document sharing
- Lecture schedule in Calendar
- Chat bubbles and easy calls
- Online quizzes and assignments
- Diverse options for collaborative learning
- Integration of many more apps

# Project Based Learning (PBL)

Initiated from Academic year 2020-2021 for B.E./B.Tech Programs

Kumaraguru College of Technology has always served as a catalyst for innovations in teaching learning framework to optimize the educational outcomes in engineering study. To foster a strong synergy of basic sciences and their application in multiple domains of engineering, Kumaraguru Project Based Learning Framework was introduced in the academic year 2020-21 for the first year B.E./B.Tech. students. The model is drawn from studying the various inquiry-centric learning frameworks where a top-down approach and a bottom-up approach converge to maximize learning outcomes.

## PBL at a Glance

**Learners build** further over their prior knowledge, experiences, and interests.

**Emphasis on Problem solving**, higher order thinking and deeper understanding of concepts and principles.

**Learners engage** in creative and critical thinking, assess their own work, reflect on what they learn, and set goals and objectives.

**Errors and misconceptions** are also viewed as opportunities for learning.

**Learners are encouraged** to have multiple perspectives and representations of their learning.

**Multiple forms of assessment** are built in and are an ongoing part of learning.

02 SEMESTERS  
97 STUDENT LEARNERS  
34 PROJECTS  
67 MENTORS  
28 PUBLICATIONS  
19 PROTOTYPES

Q When comparing Project Based Learning to traditional learning, one gets a lot of gains. ***One gets to learn a lot of new things which one can learn by doing things in the practical mode.***

**Kushar Dogra**, B.Tech IT – 2020-21 Batch,  
PBL Cohort I – Crew 10

Q As a mentor, I am overwhelmed with the commitment, learning ability and technical discussions of the crew. ***Project based learning is a great initiative to the present scenario.***

**Dr. Geethakarathi A**, Associate Professor / Civil Engg.

# Virtual PROTOSEM

MICROINNOVATORS



IoT Sensors &  
Networks



3D Printing,  
Desktop  
Fabrication



Industrial  
Automation



Robotics



Low-volume  
Electronics  
Manufacturing  
& Assembly



Artificial  
Intelligence  
& Machine  
Learning



Big Data  
Analytics



Cloud  
Computing, etc.



Self-transformation is the core value of Protosem. For me, it was about a journey that helped me rediscover myself. ***The Experience kit that Forge provides brings about a personal Forge lab for all students that can easily be set up within their workspace.*** - **Madhumitha V, Protosem batch 20.2**

ProtoSem, a 20-week immersive program for the pre-final and final years, embeds an innovation-centred approach to engineering education, right into the core of the engineering curriculum. This first-of-its-kind program aimed at engineering tech-enabled solutions for real-world problems using tools offered by creative technologies covering:

## FCLF

FLEXIBLE + COMPREHENSIVE LEARNING FRAMEWORK

Flexible and Comprehensive Learning Framework (FCLF) is KCT's unique platform, in line with University Grants Commission's guidelines on CBCS, for students to study selected courses offered by other academic departments in the institution. This open elective system was initiated in the academic year 2017 – 2018.

### What does FCLF offer?

- Privilege to choose courses that interests students
- One course per semester (during Semesters 5, 6 and 7)
- Each course carries 3 credits (9 credits in total for 3 courses)
- Courses are offered in four domains:
  - SET - Science, Engineering and Technology
  - ML - Management & Leadership
  - HSF - Humanities, Social sciences & Fine arts
  - CESD - Career Enhancement & Skill Development

# KOED 2.0

## Highlights

### Virtual Labs

Kumaraguru Institutions has been working its best to provide remote-access to simulation-based labs across a wide array of disciplines. This would help students in learning basic and advanced concepts through remote experimentation through live videos from laboratories and using online virtual lab platforms.

### Assignment Components & Open Book Tests

Open book exams offer students yet another opportunity to absorb and understand the course material. This approach for assignments and assessments will enable teachers to devise questions that demand students to respond in more analytical and critical ways, thus encouraging their high order thinking skills. Other assignment components such as recorded videos, viva voce, project reviews, portfolio creation are also included.

### Enhanced Learning Experience Tools For Active Learning

To enhance the learning ability of students and improve the classroom experience through collaborative learning various methods will be employed, including breakout room discussions and utilising the various plugins in the Microsoft Teams platform for different subjects. Ed Tech Tools and Non-Tech strategies will be used in KOED 2.0 extensively.

**Students can talk to experts virtually** through [www.yourdost.com](http://www.yourdost.com) using their email ID address provided by the institution.



Your **DOST**

Kumaraguru Institutions, as a supplement to the Kumaraguru Counselling services offered at the campus, has collaborated with India's leading online emotional wellness platform, YourDOST. This platform offers advice from over 900+ experts who deliver extended support to the learning community that ensures mental and emotional well-being. Students have been using the services for over a year now.

#### YourDOST offers expert assistance on:

- Self-improvement
- Career and academics
- Family and friends
- Stress, anxiety and other psychological challenges

#### Features

- 24\*7 online counselling service
- Quick connect with trained experts
- Service at free of cost
- Private & Confidential voice/video calls
- Assures Anonymity

# Student Co-Curricular and Extra-Curricular Activities

Co-curricular and extra-curricular activities has seen good participation even though online learning has been in place for a year. Virtual events were conducted by the Department Associations, Clubs & Forums that were based on technical knowledge, arts and other soft skills, literary and societal themes. Students participated as well as organized these activities to enhance their skills and expose their talents. More such informative and exciting initiatives and virtual events are in the offering for the students in KOED 2.0

## A look back at 2020

- 500+ Events
- 19958 Event Participations

## Domain-wise Events in Numbers:

- 64 Literature events
- 98 Social events
- 12 Leadership events
- 56 Performing Arts events
- 37 Fine Arts events
- 7 Entrepreneurship events
- 170 Technical events
- 24 Fitness events
- 36 National Organisation events

Scan to give your feedback about KOED



## From The Institutional Leadership

Transitioning into the virtual learning platform with KOED at Kumaraguru Institutions during the pandemic has been complex but progressive, it's essential that we build the next year based on the learning and feedback received.

I would like to emphasise yet again the importance of your consistent and spirited engagement for the online ecosystem to be impactful. KITE and Teams provide many interesting and innovative features to engage and peer learn. In these extraordinary times, it is essential that we work harder and build our intellect and exposure in the domains of study and interest.

The Pandemic era has been chaotic and has had critical impact, during these times the Young Indians need to rise with strength, innovation and empathy.

I wish you the best for a virtual beginning of the academic year, while I hope that we will all meet soon in campus.

**- Shri Shankar Vanavarayar**  
*Joint Correspondent - President, Kumaraguru Institutions*

The Pandemic has given us the freedom to learn at our own pace with the help of technology. KOED certainly has emerged as the value proposition to meet the requirements of both faculty and students and work closer than ever before. Leveraging new technologies through KOED to deliver non-traditional instruction through peer networks, and group cognition techniques will equip and improvise the pedagogical arena. In the longer run, education will certainly utilize the expanded technology infrastructure and receive the wider benefits of virtual learning.

**- Dr Saravanan D**  
*Principal, Kumaraguru College of Technology*

In the last academic year, KOED ensured uninterrupted learning for the students of KCT. Although designed to assure quality learning, accessible to all, there are problems such as classroom interactions, student engagements, and instantaneous measures of student learning. To address these issues, Project Germinate Taskforce has suggested changes in the process as KOED 2.0, in which faculty members are preparing to use various tech-assisted strategies to enhance classroom interaction. Also, assessment components are modified to enable students to focus on learning to create a highly engaging ecosystem and keep the warm light of learning glowing brightly.

**- Dr. Vinohar Stephen**  
*Head, Academic Innovations*

