



KG REDDY
College of Engineering
& Technology
Engineering India's Changemakers

Welcomes NBA Expert Team 6th August 2021

Presentation by
Dr. R. S. Jahagirdar
Principal, KGRCET

KG Reddy College of Engineering and Technology



Year of Establishment	2008
Established by	Aristotle Educational Society
Location	Chilkur Village, Moinabad Mandal, Telangana

AICTE Approval (Current)

South-Central/1-9322891586/2021/EOA/ dated: 2 July 2021

Affiliating University - JNTU Hyderabad, Hyderabad – w.e.f. 2008 – 09 to till date

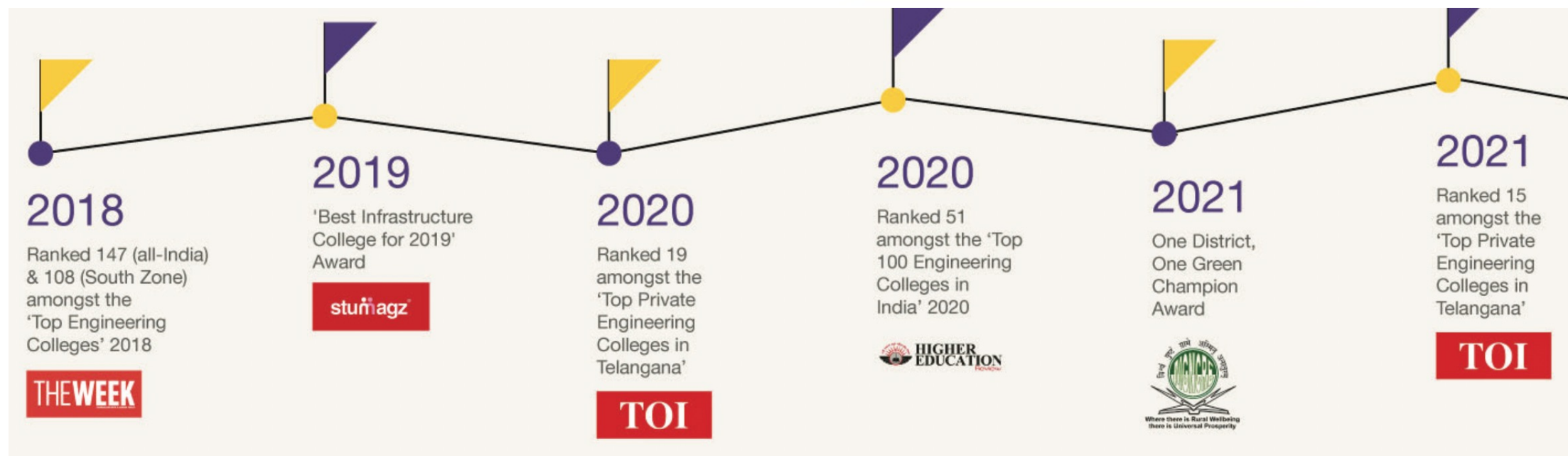
UGC Recognition under Section 2 (f) - F. No. 8-620/2017 (CPP-I/C) Dated: 6 February 2018

NAAC accreditation with A+ Grade

ISO 9001:2015 Certification – Certificate No: 21EQD



Institutional Recognitions



'Best Upcoming Engineering College in Telangana' (2017)

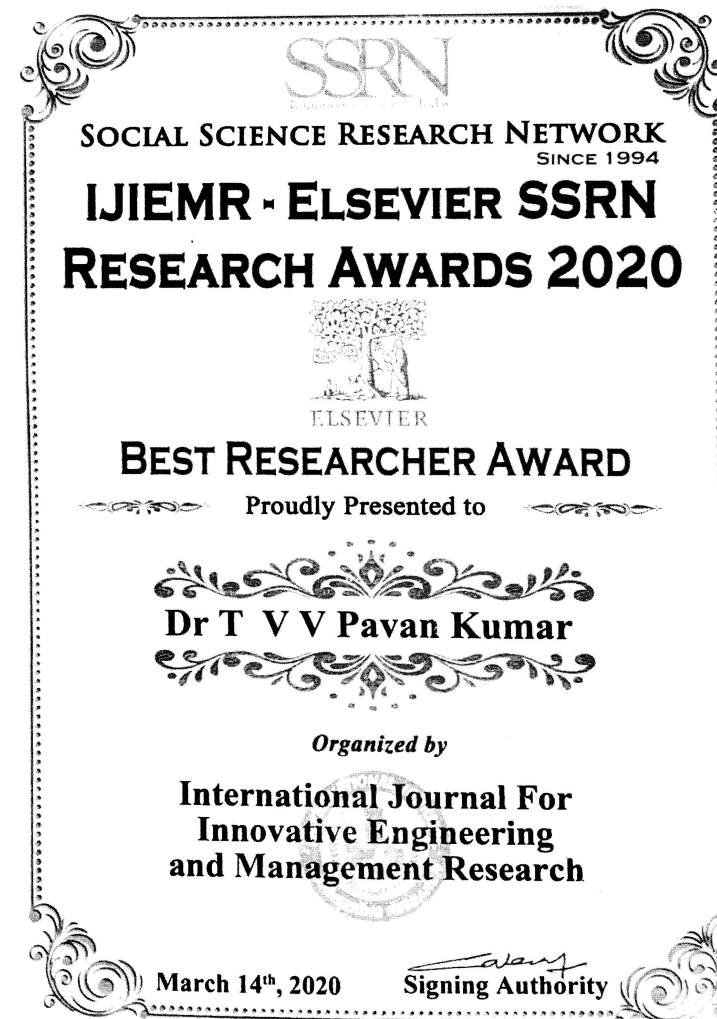
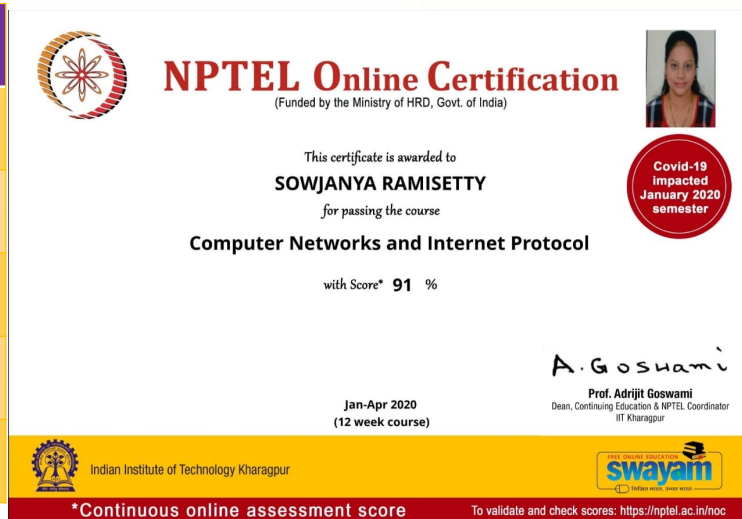
TIME
CYBERMEDIA

Ranked 4 in 'Transformations in Engineering Education' (2017)

 Indo Universal Collaboration
for Engineering Education
IUCEE

Faculty Achievements

Academic Year	No. of Awards
2020 - 2021	9
2019 - 2020	9
2018 - 2019	3
2017 - 2018	3
2016 - 2017	4



Student Achievements

Academic Year	No. of Awards
2020 - 2021	35
2019 - 2020	55
2018 - 2019	48
2017 - 2018	17



Academic Audits to Improve Quality Standards

IQAC conducts department level audit three times every semester (pre, mid, and end of semester)

Audit report prepared by IQAC team and submitted to the HoD's

HoD's analyze the audit report with their department and submit action taken report to IQAC

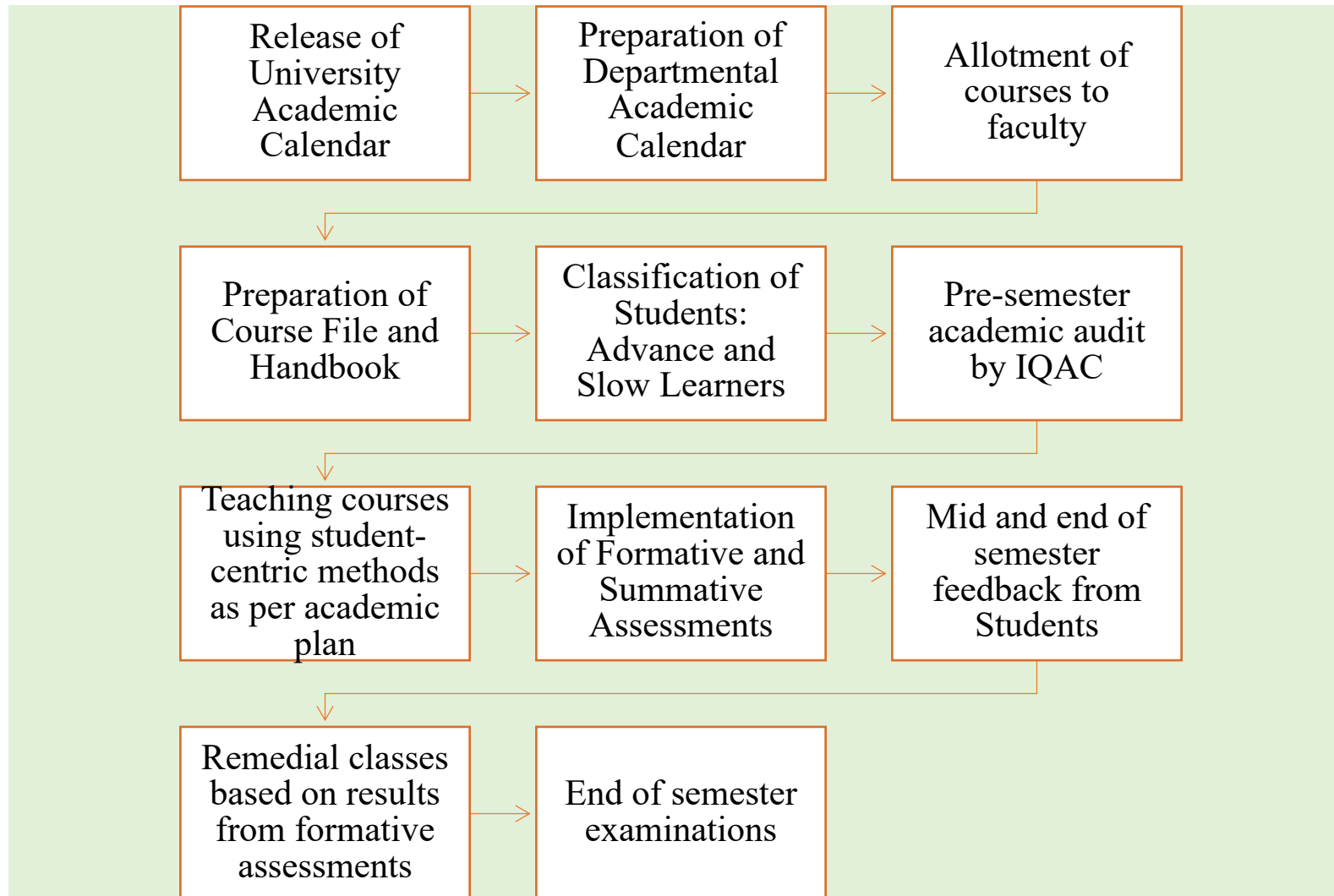
Overall audit summary and action taken report presented during institute-level IQAC meeting

Recommendation of quality enhancements are discussed and initiated during the institute-level IQAC meeting

Quality initiatives based on recommendation by IQAC

- Formation of Admission Team to improve quality of freshmen students
- Conduction of 3-week Orientation program and Bridge courses for Freshmen Students
- Increase in Financial Assistance to Meritorious Students from Low-SES Background
- Implementation of HR Policies to Improve Retainment of Faculty
- Establishment of Institute Industry Interaction Cell (IIC)
- Strengthening of Alumni Association through frequent meetings with the institution.
- Aptitude, Soft-skills, and Technical training for students to prepare them for placements.
- Increase in number of On-Campus Placement Drive's
- Establishment of Department of Students Affairs
- Upgradation of Transport Facilities

Curriculum Planning and Implementation





CEED —
CENTRE FOR ENGINEERING
EDUCATION DEVELOPMENT

Student-centric learning

Project-based learning

Blended and Online learning

Student-Centric Learning Methods

Faculty are encouraged to teach at least 20% of their classes using the below strategies

- Think-pair-share
- Brainstorming
- Note check
- A minute paper
- Open book test
- Group discussion
- Ice breaker
- Think aloud pair problem solving (TAPPS)
- Concept tests
- Jigsaw
- Flipped classroom
- Concept tests



Project Based Learning

Students at KGR CET get the following opportunities to work on projects as part of the academics.

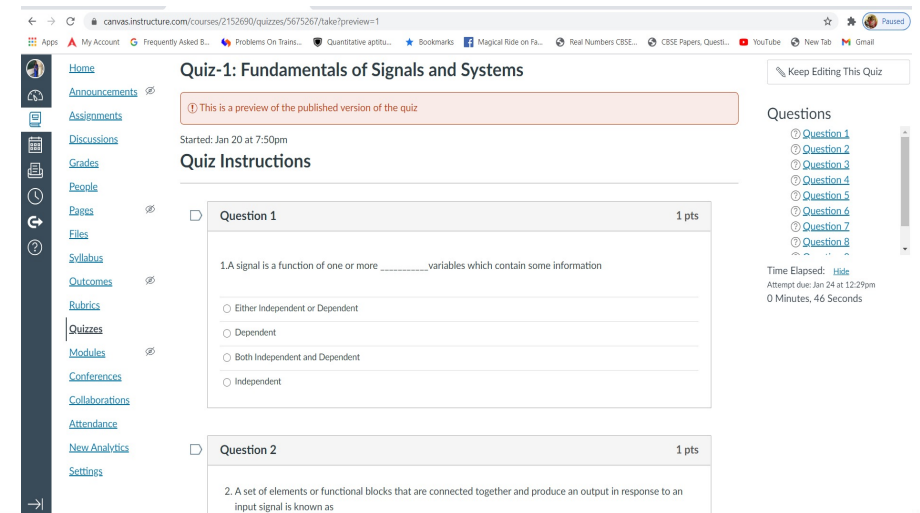
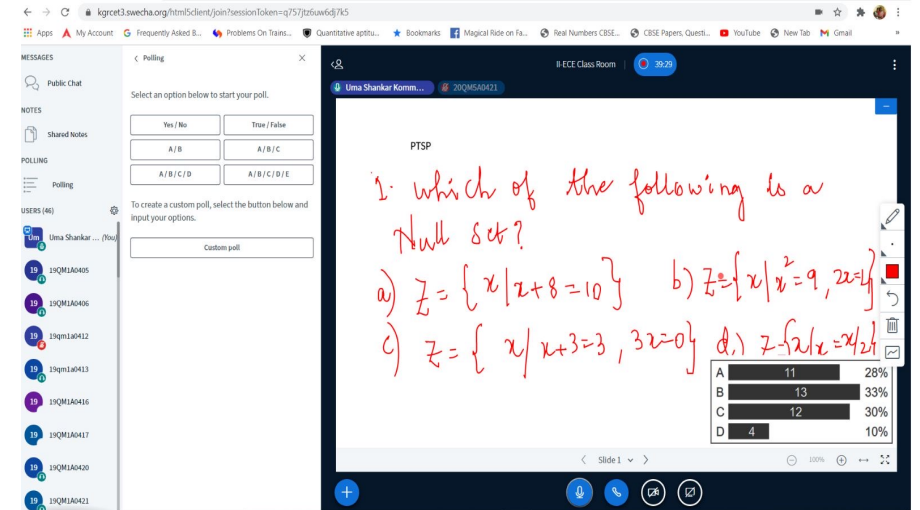
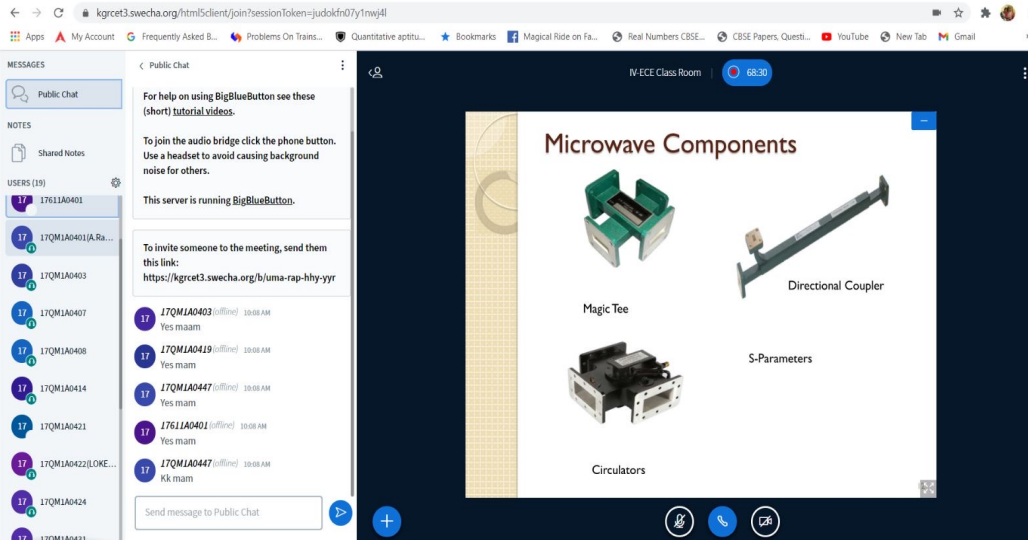
- 2nd year students – Project-based assignments
- 3rd year students – Mini projects
- 4th year students – Major projects

FDP's on Project-based learning are conducted to help faculty identify complex ill-structured problem statements and develop evaluation guidelines for assessing the projects.



Online and Blended Learning

- Canvas Learning Management System (LMS) is used to create course websites and upload all the course related information and learning resources.
- 100+ course websites created since 1st COVID19 lockdown
- Bigbluebutton and Microsoft Teams for live classes



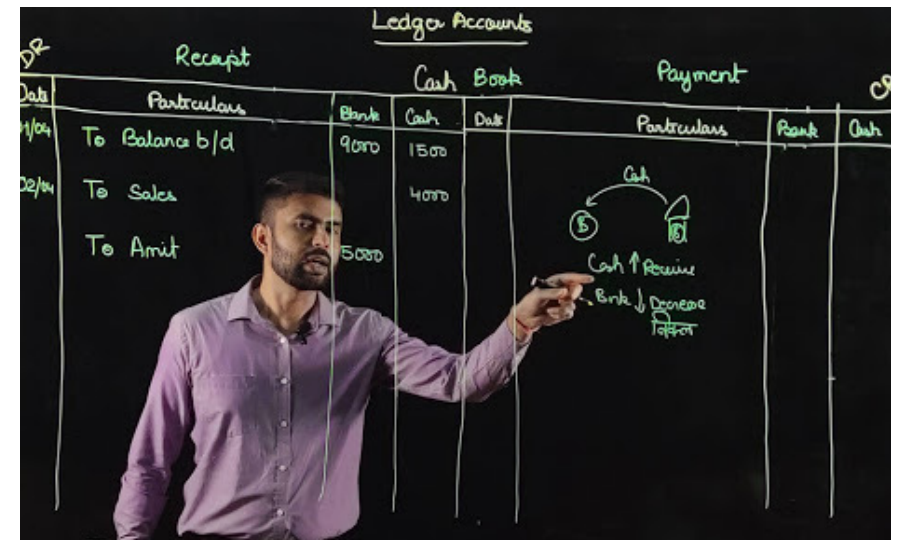
Recording Studio's Available

- Lightboard Studio
- Lecture recording studio

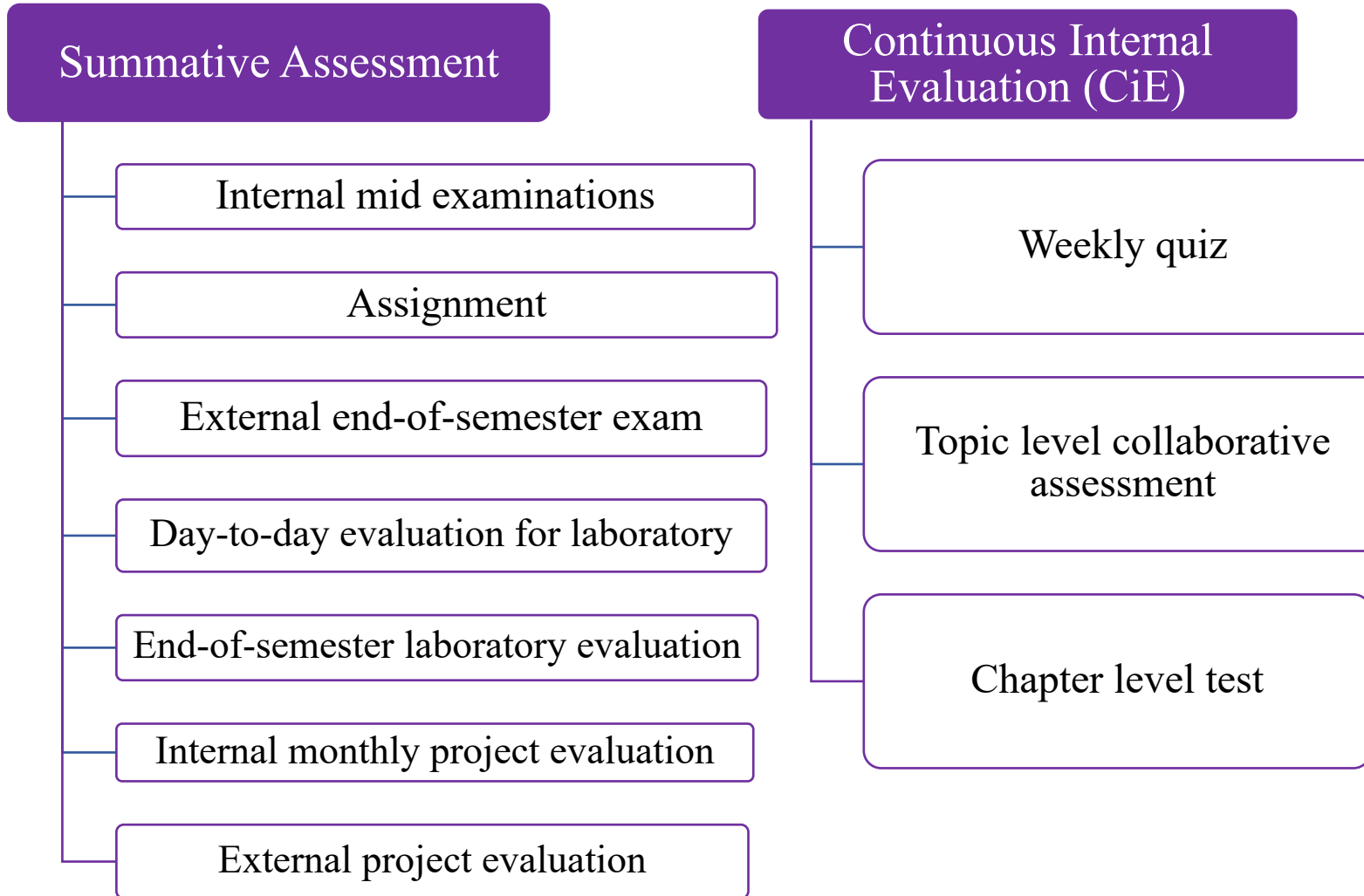


Key Statistics Since COVID19 lockdown

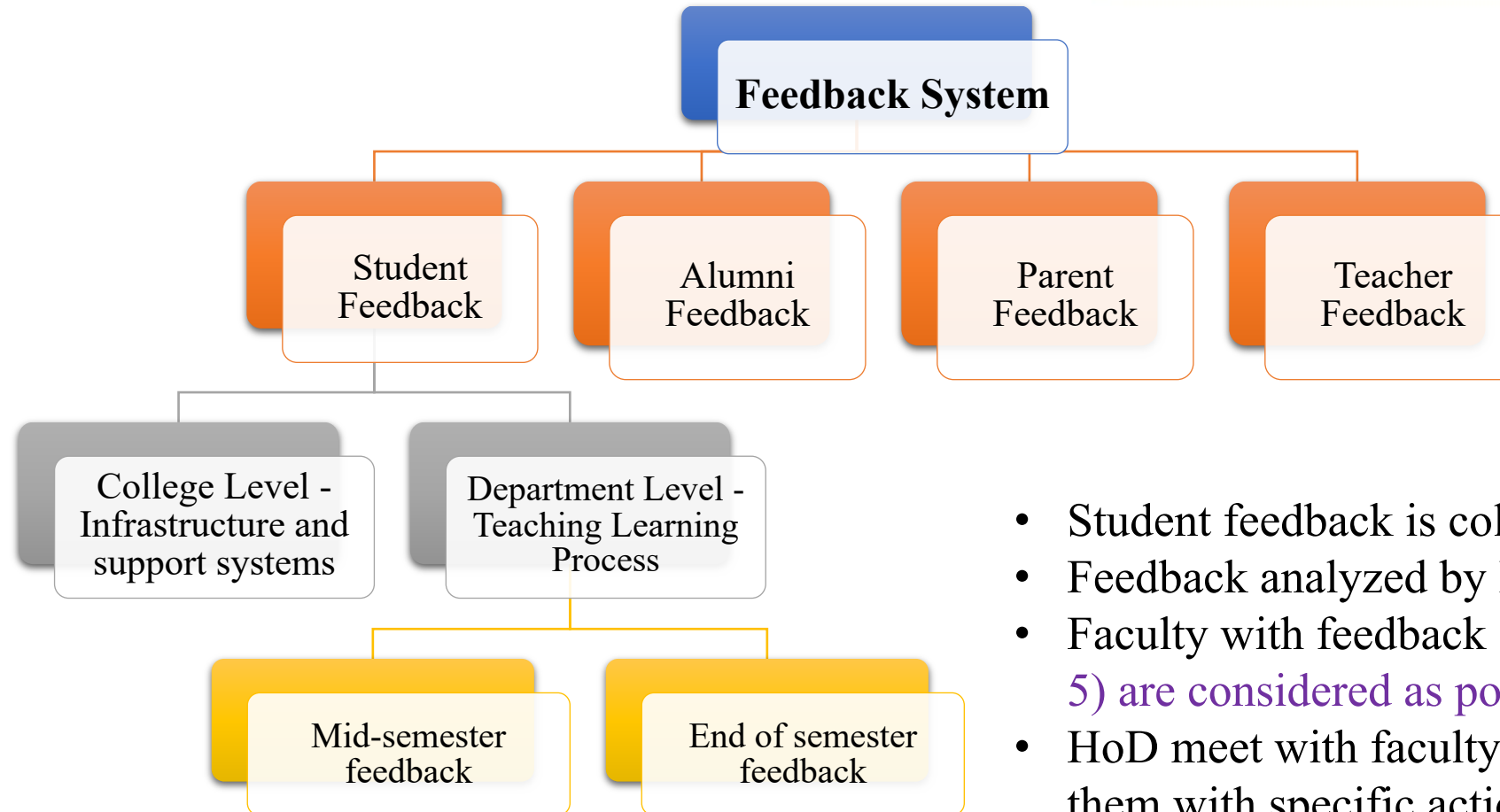
- 100+ course websites created on Canvas LMS
- 4500+ minutes of pre-recorded lectures uploaded to Youtube
- 1000+ quizzes and assignments conducted through Canvas LMS



Evaluation Process



Feedback Mechanism



- Student feedback is collected online
- Feedback analyzed by IQAC and send it to HoD's
- Faculty with feedback score less than 3.26 (out of 5) are considered as poor performers
- HoD meet with faculty individually and counsel them with specific action steps

Number of Teaching and Non-Teaching Staff

Academic Year: 2020 - 2021

S. No.	Department	Count
1	ECE	20
2	CSE	26
3	EEE	8
4	ME	13
5	CE	10
6	H&S	24
7	MBA	7
Total		108

S. No.	Support Staff	Count
1	Non-Teaching staff	32
2	House Keeping	25
3	Drivers & Cleaners	11
4	Security	4
Total		71

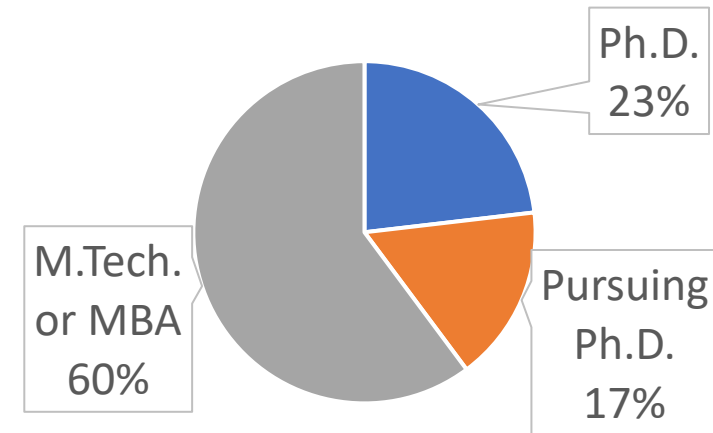
Faculty Qualifications and Diversity

Academic Year: 2020 - 2021

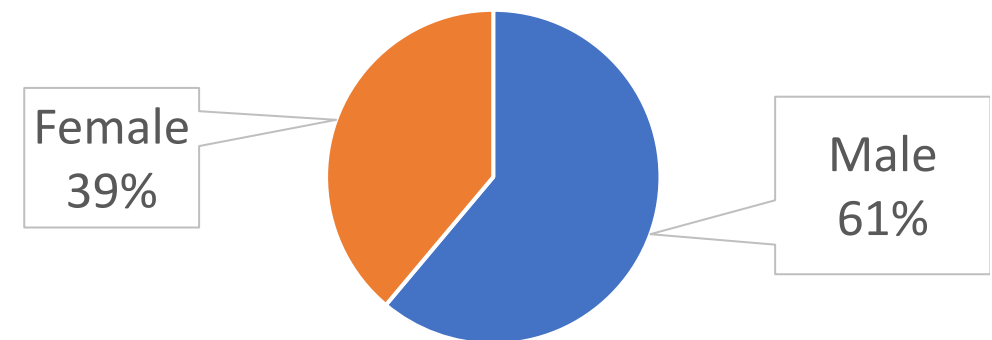
Faculty Qualification	Number
Ph.D.	25
Pursuing Ph.D.	18
M.Tech. or MBA	65
Total	108

Gender	Number
Male	66
Female	42

Faculty Qualification



Faculty Diversity



Note: We have no faculty under the gender category – others.

Faculty Professional Development

Academic Year	Programs Conducted
2020 - 2021	17
2019 - 2020	25
2018 - 2019	22
2017 - 2018	4



Faculty Participation in Professional Development Programs				
Academic Year	FDP	STTP	Workshops	NPTEL, Swayam, and Coursera
2020 - 2021	51	35	5	248
2019 - 2020	179	14	31	100
2018 - 2019	171	24	26	7
2017 - 2018	107	-	15	2

Research Publication Details and Patents

Year	Scopus/SCI Indexed	UGC approved	Conference
2020 - 2021	8*	-	-
2019 - 2020	7	27	18
2018 - 2019	4	181	2
2017 - 2018	4	92	3
Total	23	300	23

* 50 more papers submitted for review process and awaiting results.

Title	Application No.	Status
Design of Embedded Radiation Hardened Cache Memory Cell	202141025985	Filed
AlGaN/GaN based HEMT for RF and Low Noise Application	202141025986	Filed

Student Profile

Category		Year 1	Year 2	Year 3	Year 4
SC	Male	21	31	23	24
	Female	4	14	9	7
ST	Male	14	15	12	11
	Female	3	1	None	None
OBC	Male	166	195	159	137
	Female	70	61	62	47
General	Male	108	98	81	104
	Female	46	49	44	43
Total		432	464	390	373

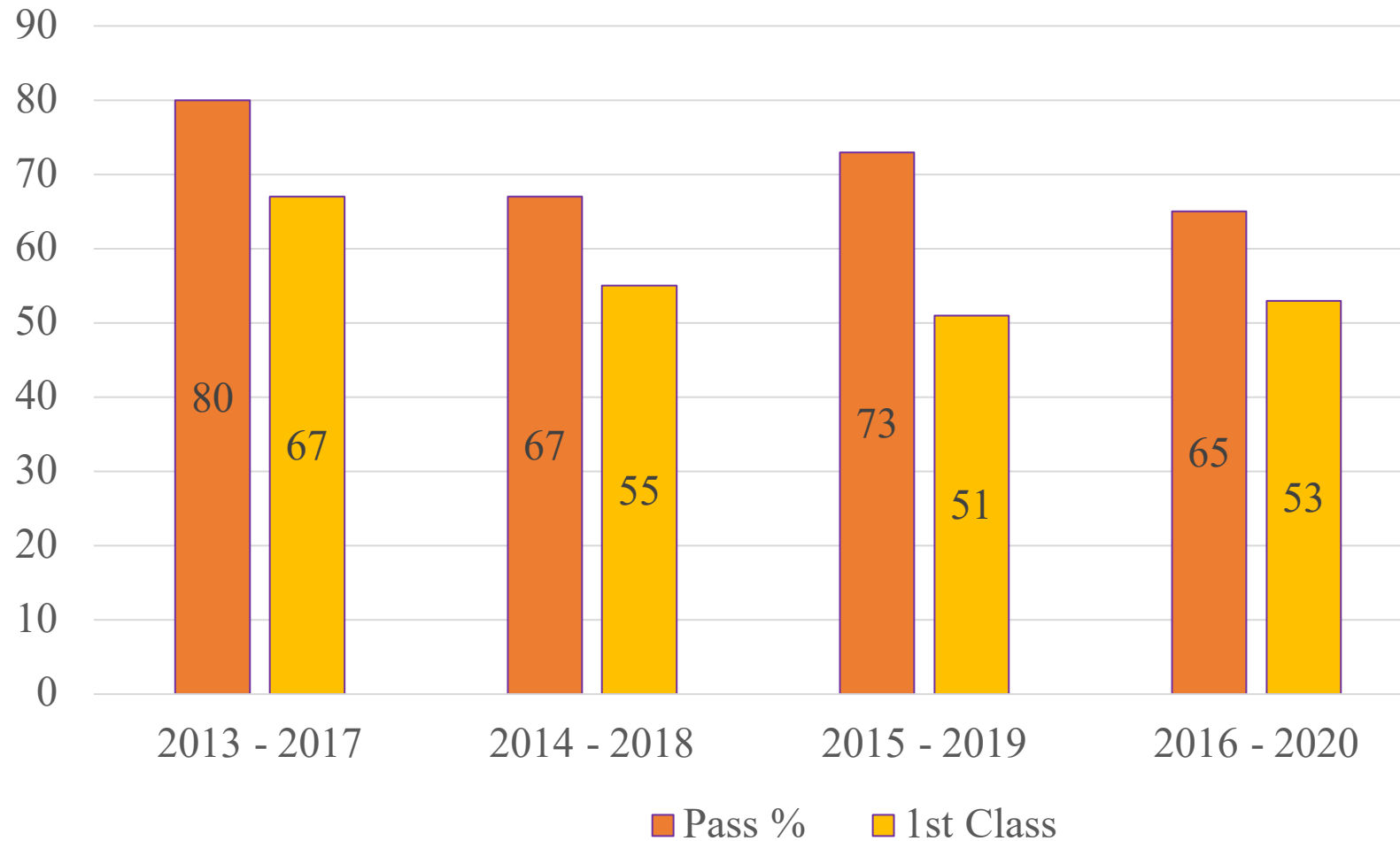
Location	No. of Students
From Telangana	1562
Outside Telangana	97

Note:

- **Year 1 admitted in 2019 - 2020**
- We have no students under the gender category – others.

Students Results Percentage

Students Academic Performance



Placements, Higher Education & Entrepreneurship

Academic Year	Internship	Number of Placements	Higher Education	Entrepreneurship
2020 – 2021*	20	116*	-	-
2019 - 2020	150	91	8	1
2018 - 2019	50	154	22	1
2017 - 2018	35	123	24	-
2016 - 2017	10	58	26	4

* Recruitment still under progress



THE ENTREPRENEURSHIP AND INNOVATION CYCLE



INSTITUTE INNOVATION COUNCIL (IIC)

- Seminars on Technology Innovation
- Design Thinking course
- Hackathons



ENTREPRENEURSHIP DEVELOPMENT CELL (EDC)

- Seminars on Entrepreneurship
- Foundational and advanced course in Entrepreneurship
- KGR Entrepreneurship Summit and Business Plan Competition



TECHNOLOGY BUSINESS INCUBATOR (TBI)

- SEED funding
- Office space
- Mentor support
- Product Development
- Laboratory
- Networking

Institute Innovation Council (IIC)

IIC at KGRCET conducts the following activities

- Self-Driven activities
- MIC activities
- IIC activities



My Story

Motivational Session
by a Startup Founder



Ms. ANISHA SHASTRI
CEO - Reasy Inc



Organised by
KGRCET - IIC
in association with
Ministry of Education & AICTE



WORKSHOP ON DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN



Dr. ROHIT KANDKATLA
PHD, ENGINEERING EDUCATION,
PRUDUE UNIVERSITY, USA



Organised by
Institutions Innovation Council
in association with
Department of Humanities and Sciences,
Center for Innovation and Social Transformation



SESSION ON Identifying IPR component at early stage of Innovations



Ms. SAILAJA SARVEPALLI
FOUNDER & MANAGING
PARTNER OF SAILAJA
SARVEPALLI & CO



Organized by
KGRCET - IIC
in association with
Ministry of Education & AICTE

Entrepreneurship Development Cell (EDC)

- Established to drive all activities that are aimed to instill entrepreneurial thinking among students.
- EDC works towards building a culture of entrepreneurship among students and motivates them transform an idea into a potential business opportunity.

Activities

- Monthly seminar series by Startup founders.
- Workshop on Business Model Development.
- Foundational and Advanced course in Entrepreneurship in association with Wadhvani Foundation.



MONTHLY SEMINAR SERIES

ENTREPRENEURSHIP

Organised by
Student Welfare Department
in association with
Entrepreneurship
Development Cell

MR. JIGNESH TALASALIA
CO- FOUNDER & CEO
PERSPECT AI

11th September
1:00 - 2:00 PM
<http://collab.swecha.org/b/uma-onr-qba>

 **KG REDDY**
College of Engineering
& Technology
New Age Engineering

Entrepreneurs Graduated from College

Sl.no	Student Name	Name of the company	Date of Registration
1.	Chinthogu Sharath kumar	Go Digital Innovations	29 Jan 2020
2.	G Krishna	NextByte Innovations Private Ltd	18 July 2019
3.	Sri.Samala Uday Chatanya Peddagandu Vinay Kumar	Omnytrix Integrated Solutions	9 June 2016
4.	Mr. Samala Uday Chaitanya	FORTE 9 Institutional Services	30 Jan 2016

Name of Idea Applied to Incubator	Area	Applicant
Bio Lubricant-Technology for Future Trends	Automotive	Dr. Dilip Sahu
Agriculture focused water pumping system powered by Solar Energy	Renewable Energy	Dr. Pavan Kumar
Influence of Aeration on Vermiculture technology as a tool for nutrient recovery by bio-remediation of different organic waste material using earthworms	Agriculture	Mrs. Sakshi Manchalwar

Technical Clubs and Professional Societies



**ARTIFICIAL
INTELLIGENCE
CLUB**



**BLOCKCHAIN
CLUB**



**THE ELECTRIC
VEHICLES CLUB**



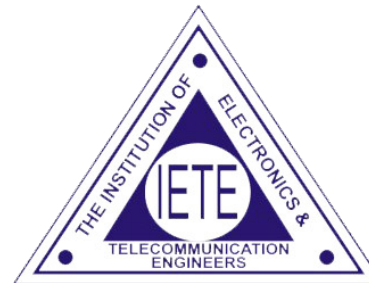
**INTERNET
OF THINGS
CLUB**



**3D PRINTING
CLUB**



**GREEN
CONSTRUCTION
CLUB**



Extra-Curricular Activities

Cultural Clubs



Singing



Dancing



Dramatics



Photography



Literary

Social Impact Clubs



Community Service

Activities

1. Unnat Bharat Abhiyan (UBA)
2. Engineering Projects for Community Service



FREE COVID CARE CENTER

KG Reddy College, Moinabad

We provide medical supervision, medicines
and meals for patient



- Established to act as a bridge between student council and the college management.
- Comprised of faculty who support the student council in the conduction of various activities.
- Student Affairs team oversee the functioning of various co & extra curricular activities

Activities

- Monthly seminar series
- Celebration of national holidays and festivals
- Intra-cultural and sports events
- Inter-institute cultural and sports fest



**Department of
Student Affairs**

Number of Programs Conducted

The following co-curricular programs are conducted for students in the institution

- Workshops and Seminars
- Guest Lectures by Academicians and Industry Expert
- Industrial Visits
- Value Added Courses
- Certificate Courses
- Bridge Courses/ Technical Training

Academic Year	2021 - 20	2019 - 20	2018 - 19	2017 - 18	2016 - 17
No. of activities conducted	111*	99	156	57	15

* Academic year is ongoing

Infrastructure and Facilities

- Digitally enabled classrooms – 24
- Smart campus with Wi-Fi access
- Laboratories – 46
- Cafeteria
- In-house stationary
- Well connected bus transport facility
- Amphitheatre
- 24x7 security with CCTV coverage
- Common waiting room for boys & girls
- Sanitary napkin vending and disposable machine
- Facilities for 'Physically Challenged Persons'
(lift, wheelchair, scribes and ramps)
- Hostel facility in close proximity
- Fire extinguishers



Eco-Friendly Campus



Water Harvesting



Solid Waste Management



Indoor and Outdoor Sports Facilities

- Badminton
- Basketball
- Cricket
- Carom board
- Chess
- Kabaddi
- Karate
- Throwball
- Volleyball
- Table tennis
- Table soccer



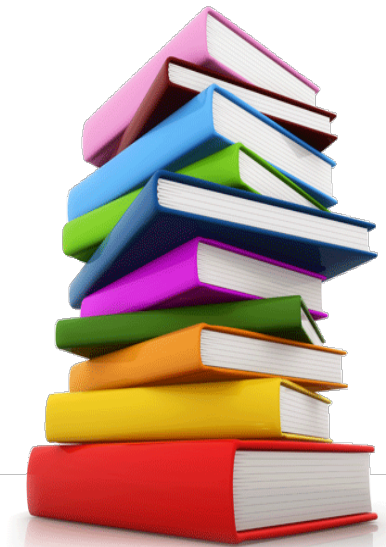
Lika Lej,
16QM1A0110, AY: 2018 - 2029
International level Gold Medal Winner
50 kg Senior Individual Kumite



A. Shivashankar,
13QM1A0101, AY: 2017 - 2018
International Level Black Belt Winner
Shotokan Karate Association Japan

- Adequate library facilities enriched with learning resources
- Library complex area 7480.7 sq. ft.
- Digital library with access to NPTEL, Delnet, Digital Library, and J GATE
- Reference books on various research topics and projects
- Book bank services for SC, ST students

Volumes	Journals
22,749	4576+ Online E-Journals 3500 E-books 120 + Print Journals & Magazines



IT Infrastructure and Power Backup

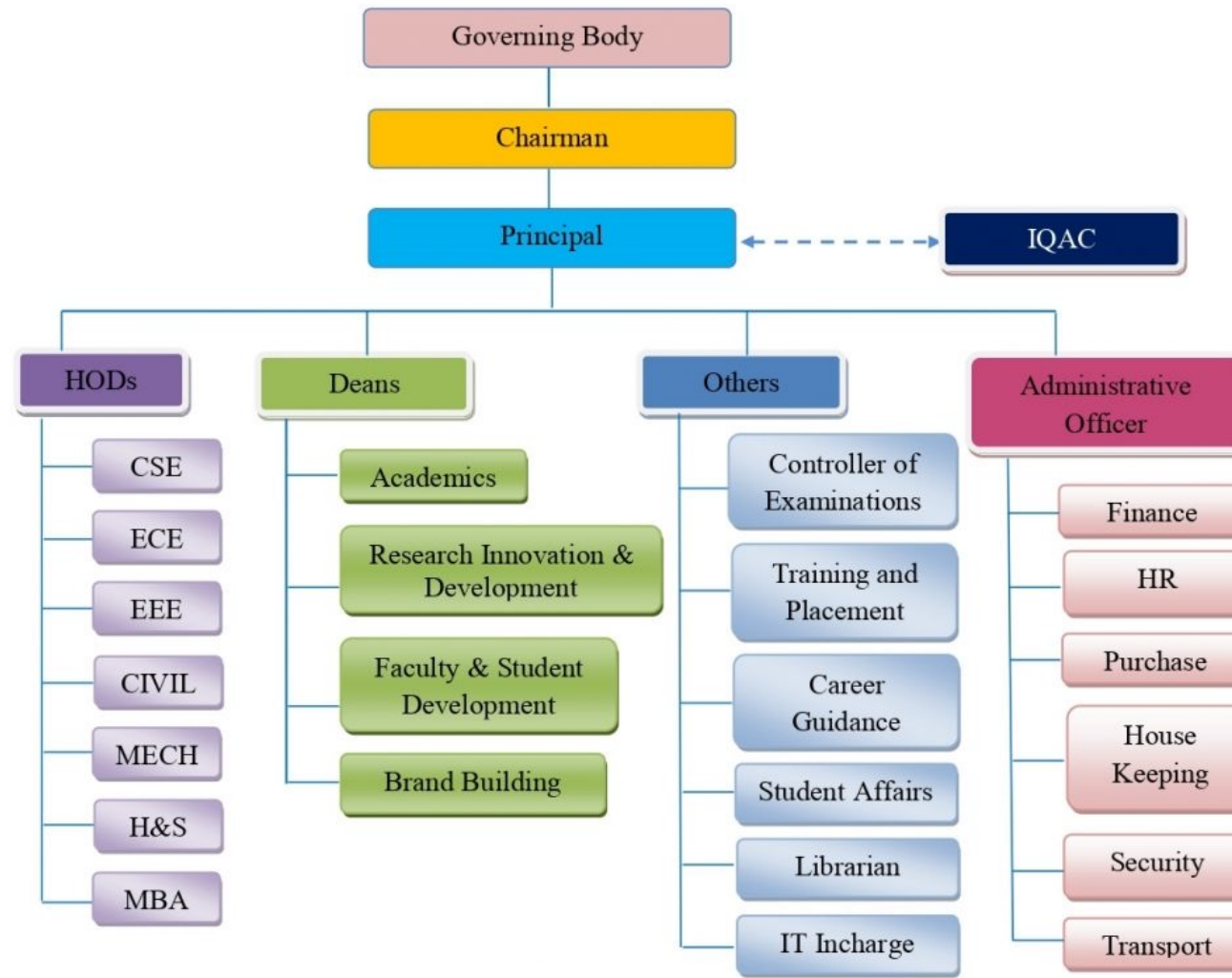
Total Number of Computers	468
Percentage of Computers in Networking	100%
Student Computer Ratio	3:1
Internet Band width	100 Mbps
Printers	30
Scanners	10
Photocopiers	9
LCD Projectors	24

Transformer	62.5 KVA
Generator	125KVA
UPS with total backup with battery	62.5KVA

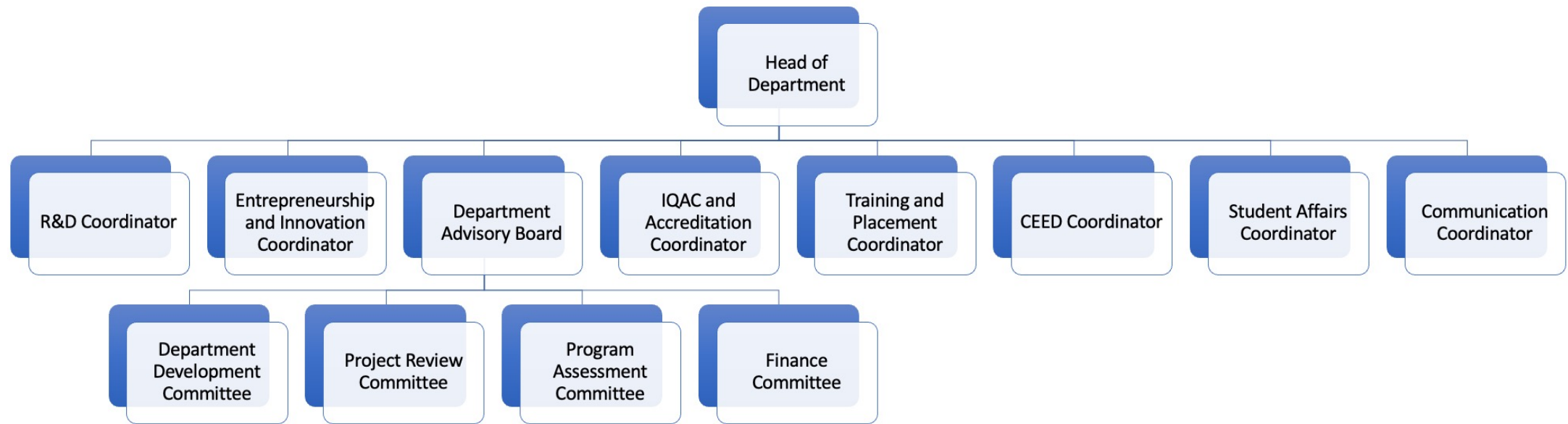
Governing Body

Name	Designation	Position
Prof. Ashok Shettar	Vice Chancellor, KLE Technological University	Chairman
Ln. K. Krishna Reddy	Chairman, KG Reddy College of Engineering	Member
Dr. P. Sravana	Professor of Civil Engineering & Head, JNTUH	JNTUH Nominee
Mr. A.V. Salunkhe	Assistant Director & South Central Regional Office	Ex-Office AICTE Nominee
Prof. G. Giribabu	Principal, Government Polytechnic College, Hyderabad	Member
Prof. K. Narasimha Reddy	Former VC, Mahatma Gandhi Rural University	Member
Dr. Sudhakar Reddy	Senior Professor, MGIT, Hyderabad	Member
Dr. Jacob Perez	Director, The school of Leadership, Bangalore	Member
Mrs. Sandhya Reddy	Director, Kenra Technologies	Member
Dr. Rohit Kandakatla	Associate Professor, KG Reddy College of Engineering	Member
Dr. R. S. Jahagirdar	Principal, KG Reddy College of Engineering	Member Secretary

Organizational Structure



Department Level Administrative Structure



All the heads of various departments are given the decision-making power to assign the coordinators as listed above.

Faculty Appraisal System

Goal setting prior to start of academic year

Mid-semester reviews

Mid-year review and performance report

End-of-year reviews

Performance rating based on fulfillment of goal

Categories for Performance Review

1. Academics
2. Research
3. Administrative Support
4. Professional Development

Faculty with poor performance rating are given a memo and suggestions for improvements.

Faculty with good performance are provided with appropriate salary appraisal.

Welfare Measures for Staff

- Encouragement for higher studies by providing on-duty leaves.
- Financial assistance for membership in professional bodies.
- Partial financial assistance to attend workshops, FDPs, STTP, seminars, and conferences.
- Support the employees to attend the corporate training programs.
- Free transport facility.
- Maternity leave to the female staff as per the norms.
- Mediclaim for the faculty who has completed their service three years in the college.
- Laptops as an incentive to the HODs and faculty members who have completed six years in the institution.
- Concession in tuition fee, transport fee for the children/relatives of staff
- Signed up with ESIC-‘Chinta se Mukti’ scheme, under this; institute has registered with ‘Scheme for Promoting Registration of Employers and Employees’ (SPREE) with ESIC Corporation.

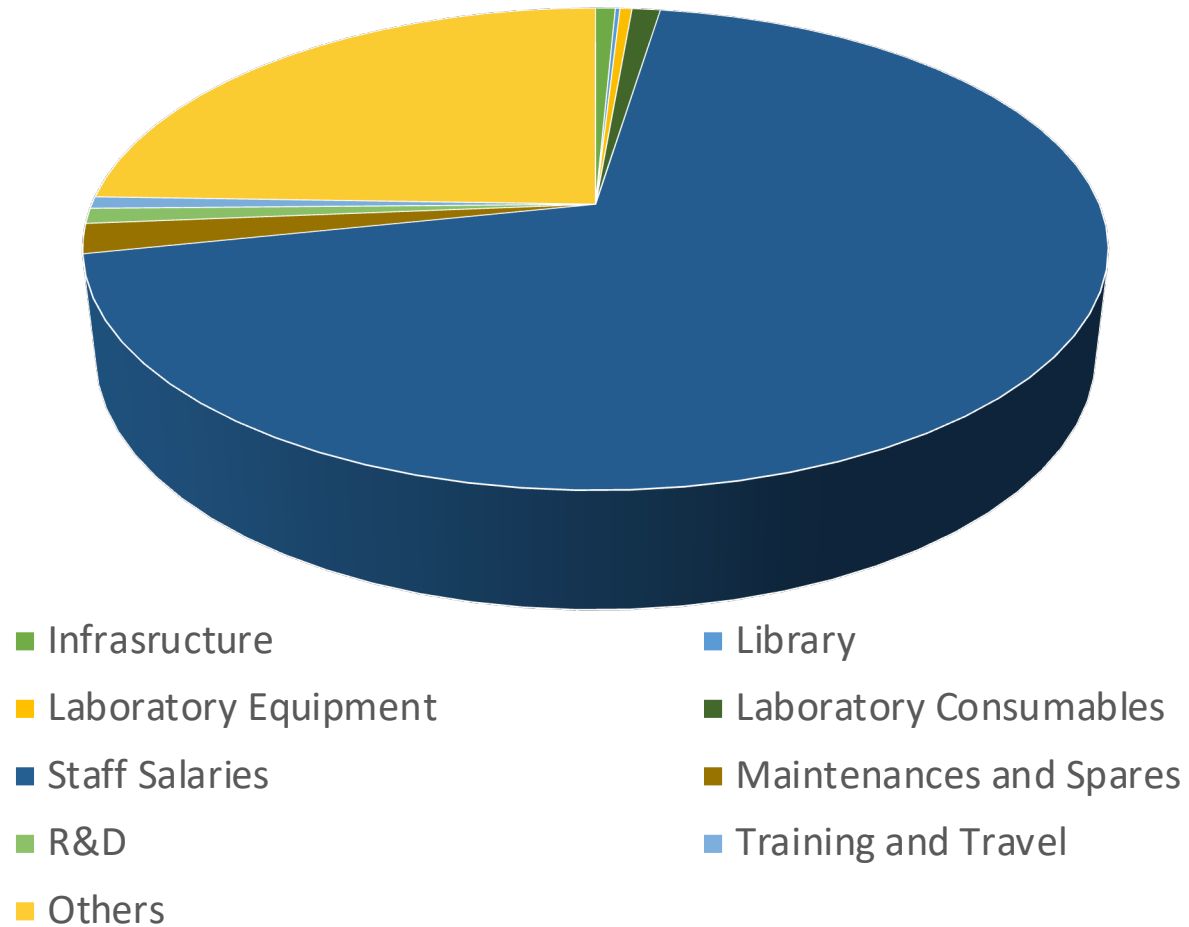
Income and Expenditure

Academic Year	Income	Expenditure
2019 - 2020	Rs. 9,40,40,217	Rs. 9,57,17,611
2018 - 2019	Rs. 9,13,16,397	Rs. 9,93,52,097
2017 - 2018	Rs. 7,97,29,799	Rs. 9,32,49,562
2016 - 2017	Rs. 6,77,97,600	Rs. 7,30,94,198

Additional Revenue Generation

- The college offers its infrastructure facilities for the conduction of various competitive and online examinations and has generated additional revenue of 55 lakhs in the last 5 years.
- We also receive support from Alumni through sponsoring of resources required in the campus.

Budget Breakdown 2019-20



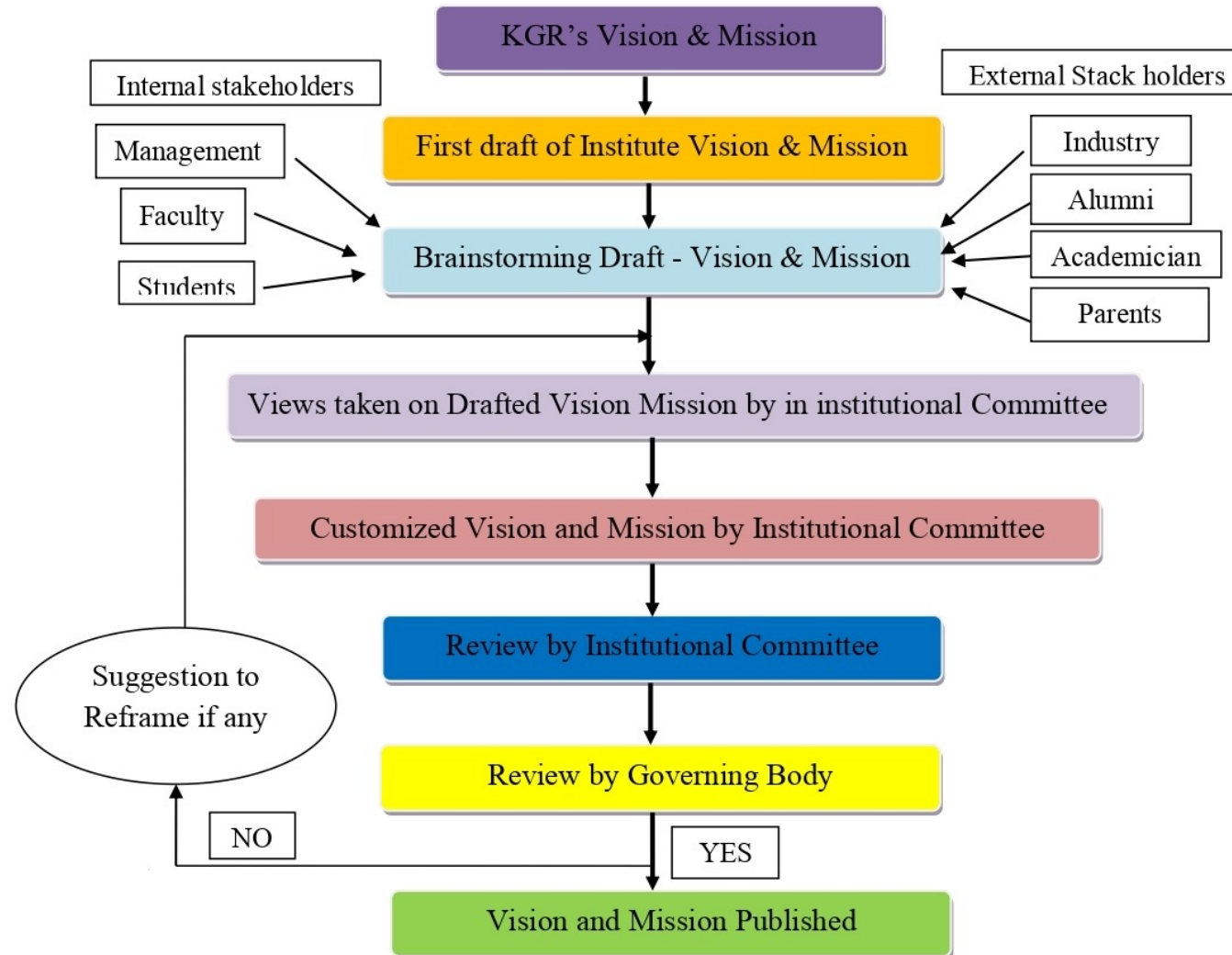
Vision

To become self-sustainable institution which is recognized for its **new age engineering** through **innovative teaching and learning culture**, inculcating **research and entrepreneurial ecosystem**, and **sustainable social impact in the community**.

Mission

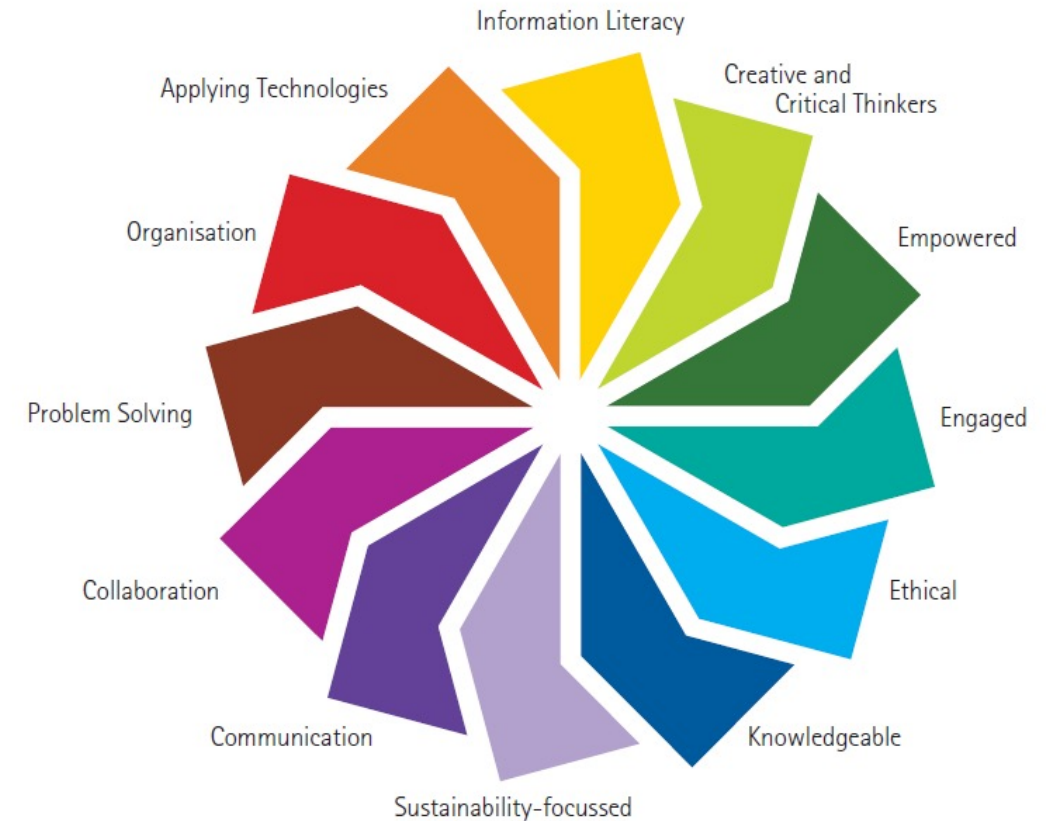
- To offer undergraduate and post-graduate programs that is supported through **industry relevant curriculum** and **innovative teaching and learning processes** that would help students succeed in their professional careers.
- To provide **necessary support structures** for students, which will contribute to their **personal and professional growth** and enable them to **become leaders in their respective fields**.
- To provide faculty and students with an **ecosystem that fosters research and development** through **strategic partnerships with government organisations and collaboration with industries**.
- To contribute to the **development of the region** by using our **technological expertise** to work with **nearby communities** and support them in their **social and economic growth**.

Process of Defining Mission and Vision

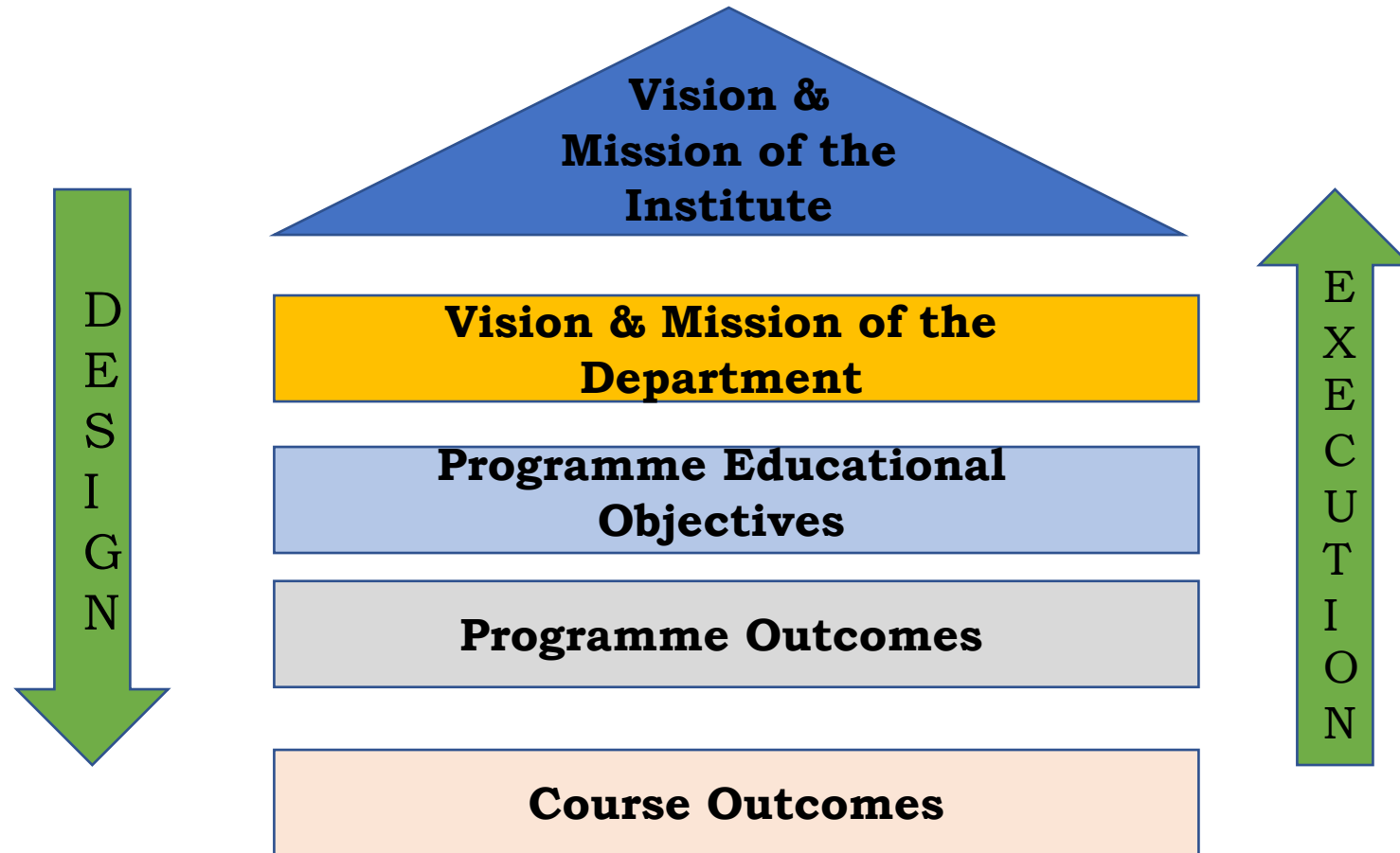


Graduate Attributes

- Engineering Knowledge
- Problem Analysis
- Design- Development of Solutions
- Conduct Investigations of Complex Problems
- Modern tool usage
- Engineer and Society
- Individual and Teamwork
- Communication
- Environment and Sustainability
- Ethics
- Project management and Finance
- Life-long learning



Outcome Based Education Design



KGR Ecosystem for Holistic Student Development

Year 1

Academics	Co-curricular	Extracurricular
Humanities and Sciences Courses ●	Technical Workshops ● ● ●	Induction into Cultural Clubs & Participation in Activities ● ● ●
Basic Engineering Courses ●	Monthly Seminars ● ● ●	Sports Team Trials ● ● ●
Engineering Design Thinking Courses ● ● ●	Induction into Professional Societies ● ●	Participation in Cultural & Sports Fest ● ● ● ●
	Summer Internship ● ● ● ●	

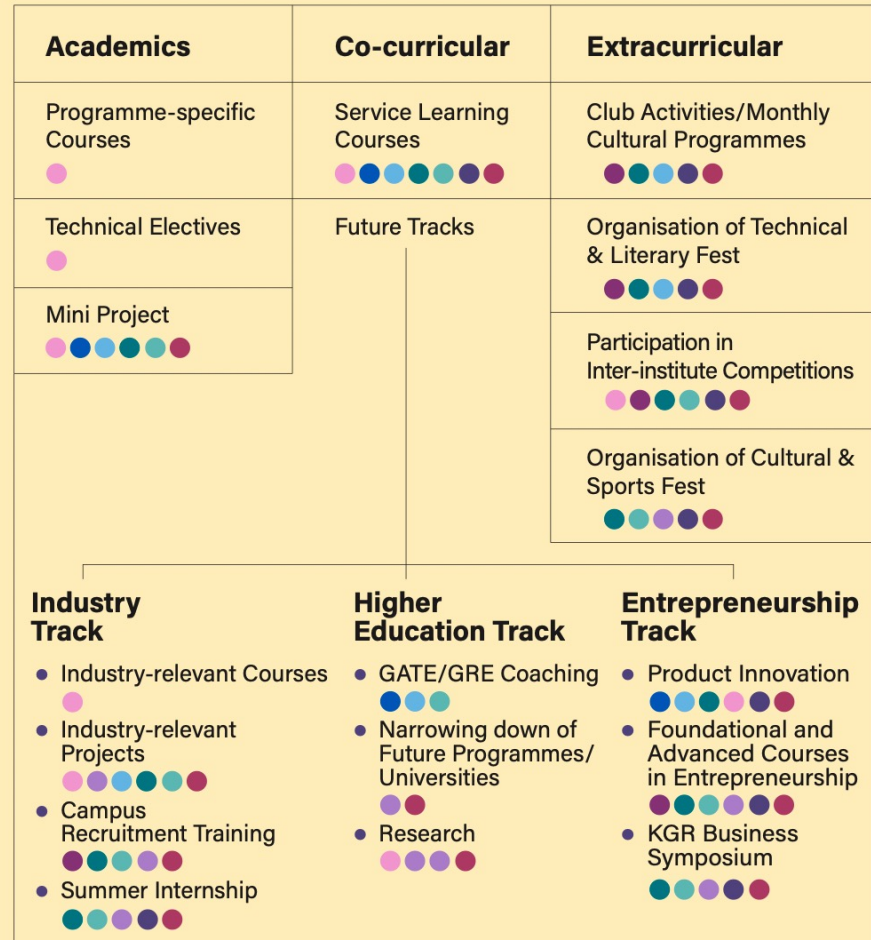
Year 2

Academics	Co-curricular	Extracurricular
Programme-specific Courses ●	Induction into Emerging Technology Clubs ● ● ● ●	Club Activities/Monthly Cultural Programmes ● ● ● ● ●
Experiential Learning Through Project-based Assignments ● ● ● ● ● ●	Technical Workshops & Hackathons ● ● ● ● ●	Participation in Social Impact Activities ● ● ● ● ● ●
	Introduction to Entrepreneurship Courses ● ● ●	Participation in Technical & Literary Fest ● ● ● ●
	Service Learning Course ● ● ● ● ● ● ●	Participation in Cultural & Sports Fest ● ● ● ● ●
	KGR Project Symposium ● ● ●	Participation in Inter-institute Competitions ● ● ● ● ● ●
	Summer Internship ● ● ● ●	

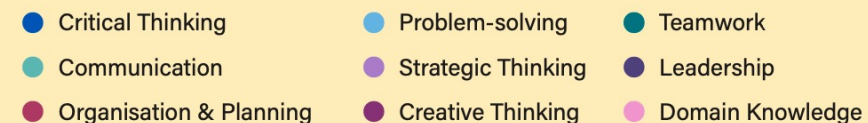
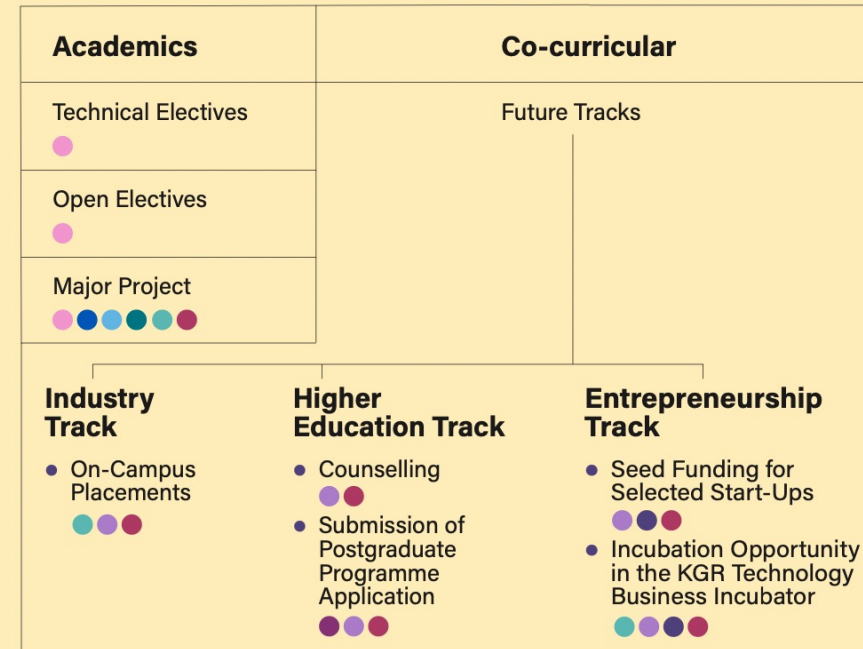
- Critical Thinking
- Problem-solving
- Teamwork
- Communication
- Strategic Thinking
- Leadership
- Organisation & Planning
- Creative Thinking
- Domain Knowledge

KGR Ecosystem for Holistic Student Development

Year 3



Year 4



Appeal

- Management with a Vision
- Enthusiastic Dedicated Staff
- Excellent Infrastructure
- Student-centric Support Facilities
- Conducive Ambience for Holistic Learning



Thank you