

CRITERION 3 RESEARCH, INNOVATIONS AND EXTENSION
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CRITERION 3.2.1

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge supported by dedicated centers for research, entrepreneurship, community orientation, Incubation, etc.

List of all the departments / centers / units are part of innovation and startup ecosystem of the institute

Department / Center / Unit Name	Type of Department / Center / Unit	Stream / Discipline / Sector of focus	Student / Beneficiary Strength (2020-21)
Diet Innovation and Incubation Centre	Incubation Unit	Engineering	1432
Entrepreneurship Development Cell	Industry Institute Interface Unit	Engineering	1432
Training and Placement Cell	Industry Institute Interface Unit	Engineering	1432
Research and Development Centre	Research Unit / Park	Engineering	1432
IPR Cell	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	Engineering	1432
DIET Literary and Cultural Club	Pre-incubation unit	Engineering	1432
Student Activity Centre	Pre-incubation unit	Engineering	1432
Robotics Lab	Academic Department with lab facility	Engineering	1432
DIET Civil Engineering Consultancy	Centre of Excellence with Advance Tools & Equipment	Civil	1432
Electronics Simulation Lab	Academic Department with lab facility	Engineering	1432

Electrical Simulation Lab	Academic Department with lab facility	EEE	1432
Internet of Things Lab	Academic Department with lab facility	CSE,EEE,ECE	1432
Department of Computer Science and Engineering	Academic Department with lab facility	B.Tech	476
Department of Civil Engineering	Academic Department with lab facility	B.Tech	203
Department of Electrical and Electronics Engineering	Academic Department with lab facility	B.Tech.	284
Department of Electronics and Communications Engineering	Academic Department with lab facility	B.Tech.	320
Department of Humanities and Basic Sciences	Academic Department with lab facility	B.Tech.	174
Department of Management and Business Administration	Academic Department with lab facility	Management	36
DIET ISTE STUDENT CHAPTER	Industry Institute Interface Unit	ENGINEERING	97
National Service Scheme	Industry Institute Interface Unit	Engineering	1432

Participation of HEI in Innovation & Entrepreneurship Initiatives of Ministry of Education

Department / Center / Unit Name
Adopted National Innovation and Start-up Policy at the HEI
Establishment of Institution's Innovation Council (IIC) at HEI
Trained Innovation Ambassadors at HEI
Participation in Smart India Hackathon (SIH)
Facilitated listing start-ups/ technologies in Young India combating COVID with Knowledge, Technology and Innovation (YUKTI 2.0) portal of MIC

Participation in National Education Alliance of Technology (NEAT)

List of Patents

Sl.No	Inventor	Title	Filed
1	Dr. Madhavi Konni	Plastics & Packing Materials Management:	2020
2	Dr. Madhavi Konni	Kitchen Waste Convert into an Organic Material Device.	2020
3	Ommi Suresh	Blast Resistent Analysis and Design of RCC Multi Storey Building	2022
4	Y.Hemanth Kumar	Sustainable Transluscent Light Emitting Concrete with Optical Fibers and preparation thereof	2022
5	M.R.V.S.G.Guptha	Light Transmitted Concrete through cement mortar brick	2020
6	Dr.Amarendra	Cuckoo Based Search Method for Facial Image Compression	2019
7	Dr.Amarendra	System and Method for Automated intelligent Surveillance	2019
8	Dr.Challa Narasimham	Block Chain Based automatic Attendance Registration system	2021
9	Dr.K.Sujatha	Soft Share Slate Online Teaching/Learning Kit	2021
10	Dr.K.Sujatha	Intelligent Internet of things enhanced air blower condition monitoring using machine Learning	2021
11	Mr. Prasanna Kumar Lakineni	Identifying Phishing Web by using Machine Learning Approach	2020
12	Mr. Prasanna Kumar Lakineni	Block Chain for IoT Security and privacy of violation records	2022
13	Mr. Prasanna Kumar Lakineni	Electronically Enabled and E-Award device for physical Activity goal challenges for IT professionals to strengthen Muscles and Bones	2021
14	Dr.Molli Srinivasa Rao	Artificial Intelligence based techniques to check the feasibility of product quality in manufacturing units	2022
15	Dr.P.Poorna Priya	Smart patient health monitoring and notification system	2020
16	Dr.B.Raja Rao	Fingerprint and pin(6-digit) authentication to enhance security the intelligent automatic teller machine	2019

17	Mr.S.Veera Raju	An Advanced Image processing Technique for early detection of skin cancers and treating them through artificial Intelligence enabled Nano particles	2022
18	Dr.S. L. K. Gopamma Aravelli	Electric Vehicle Charging Estimation Device Using Machine Learning	2022
19	Dr.S. L. K. Gopamma Aravelli	Limited Space Constraint-Based Transient Novel Earthing Design For Foreign Non-Cohesive Silky Sand Soil Site	2021

Summary of MOU's

S.No	Name of the institution/ industry/ corporate house with whom MoU is signed	Year of signing MoU	Period of MoUs	Duration	Parameter (Workshop/Internship/ Projects)
1	APITA	2017	6-10-2017 to 5-10-2019	2 years	Courseware and certifications
2	NIT Warangal	2017	2-11-2017 to 1-11-2018	1 year	Faculty development programme
3	APSSDC(Andhra Pradesh State Skill Development Corporation)	2018	6-4-2018	Lifetime	Hands on training,Offline workshops and Global certification programs
4	M/s Grafix IT solutions Pvt.Ltd	2018	8-10-2018 to 7-10-2018	1 year	Tally programme
5	B- Technologies	2018	10-12-2018	Lifetime	Industrial training and visits,Guest lectures, Placements
6	National Research Development Corporation (NRDC)	2019	20-4-2019 to 19-4-2024	5 years	IPR Awareness /Training Programme Copy Rights,Trade marks ,Designs,Research funding ,Incubation services,Linking to Start ups
7	Eswar sai Consultants	2019	10-07-2019	Lifetime	Industrial training programmes,guest lectures placements

8	EDU Skills	2020	2-12-2020	Lifetime	Skill Development,IT education and work force development programe
9	BSNL(Bharat Sanchar Nigam limited)	2021	20-9-2021 to 19-9-2026	5 yeras	BSNL Certified Courses , Internship /projects,Seminars,industrial visits,Guest lectures.
10	Sri shasha Technoligies Pvt.Ltd	2021	22-9-2021	Lifetime	Indutrial training and visits,Guest lectures,Placements
11	Power plant Engineering works	2021	5-11-2021 to 4-11-2026	5 years	Internship ,Project,Industrial visits

Summary of Collaborations

Sl. No.	Name of the collaborating agency	Year of collaboration	Parameter
1	IEEE	2010	Workshops and Webinars
2	Computer Society of India	2010	Workshops,Guest Lectures,FDP's
3	Confederation of Indian Industry	2016	Global Summit
4	National Science and Technology Entreprenership Development Board	2017	Workshops
5	DIET Institution of Engineers Student Chapter	2018	Workshops and Webinars
6	NIT Warangal	2018	Faculty Development Programmes
8	Siemens	2019	Internships
9	BSNL(Bharat Sanchar Nigam limited)	2019	Internships
10	e-Yantra	2019	Workshops
11	Institution Innovation Council	2019	Seminars
12	Software Technology Park of India	2020	Chunauti Innovation Contest, Guest Lectures, Startup-Support
13	ISRO	2020	Workshops