CRITERION 3	RESEARCH, INNOVATIONS AND EXTENSION
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 (2022-23)
Diet Innovation and Incubation Centre	Incubation Unit	Engineering	1875
Entrepreneurship Development Cell	Industry Institute Interface Unit	Engineering	1875
Training and Placement Cell	Industry Institute Interface Unit	Engineering	1875
Research and Development Centre	Research Unit / Park	Engineering	1875
IPR Cell	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	Engineering	2038
DIET Literary and Cultural Club	Pre-incubation unit	Engineering	1875
Student Activity Centre	Pre-incubation unit	Engineering	1875
Robotics Lab	Academic Department with lab facility	Engineering	1875
DIET Civil Engineering Consultancy	Centre of Excellence with Advance Tools & Equipment	Civil	96
Electronics Simulation Lab	Academic Department with lab facility	Engineering	511

Dadi Institute of Engineering & Technology, Anakapalle – 531002, Visakhapatnam, Andhra Pradesh

Electrical Simulation Lab	Academic Department with lab facility	EEE	169
Internet of Things Lab	Academic Department with lab facility	CSE, EEE, ECE	1285
Department of Computer Science and Engineering	Academic Department with lab facility	B.Tech	786
Department of Civil Engineering	Academic Department with lab facility	B.Tech	96
Department of Electrical and Electronics Engineering	Academic Department with lab facility	B.Tech.	169
Department of Electronics and Communications Engineering	Academic Department with lab facility	B.Tech.	330
Department of Humanities and Basic Sciences	Academic Department with lab facility	B.Tech.	318
Department of Management and Business Administration	Academic Department with lab facility	Management	40
Diet ISTE Student Chapter	Industry Institute Interface Unit	Engineering	300
National Service Scheme	Industry Institute Interface Unit	Engineering	150

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

S. NO	Title	Inventor	Patent Number	Year
1	Design and deployment of automated smart streetlight with fault detection	J Dileep Kumar	202341029416	2023
2	A novel approach to control velocity by PMSM fed by Powerelectronic converter	Dr. A S LK Gopalamma	202341029915	2023
3	A smart system for air quality monitoring anddetect forest fires usingthe IOT	S Ramana Kumar Joga	202341011076	2023
4	Analysis of sustainablesupply chain management for fashion industry in India	Mrs. Sowjanya J	202341001496	2023
5	A Novel approach for integrating the techniques of IoT, Fog and Cloud Computing for Smart and Accurate Prediction of Earthquake	Hemanth Kumar Y	202341003873	2023
6	A method for generating electricity by utilizing microbial fuel cell for waste water teatment	Archana B.T.	202341003254	2023
7	Sanitizer dispenser cumblower	Dr A S L K Gopalamma	372443-001	2023
8	Microgrid integration with hybrid source electric charging station	Dr. Mrs. Alfoni Jose, Mr. K. Vijay kumar	202211054799	2022
9	Blockchain for IoT Security and Privacy ofviolation records	Dr. Prasanna kUmar Lakineni	202241000478	2022
10	Sustainable Transculentlight emitting concrete with optical fibres and preparation there of	Hemanth Kumar Yerabolu	202241004387	2022
11	An image processing based technique to helphr predict the pulse of working environment	Mr. Veerraju Sampenga	202241008813	2022
12	Artificial Intelligence based Techniques to check the feasibility ofproduct quality in manufacturing units	Mr. M.Srinivasarao	202241009075	2022

13	Advanced image processing technique for early detection of skin cancers and treating them through AI enabled nano particles	Mr. Veerraju Sampenga	202241018535	2022
14	Blast resisteance analysis and design of RCC multistored building	Mr. O. Suresh	202241020115	2022
15	Method of determination of flexural behavior of reinforced concrete beams	Mr. O. Suresh	202241024364	2022
16	The smart improvement of automatic solar light tracking structure by deep learning model	Mr. P. Srinivas, Dr. Kausar Jahan	202241043234	2022
17	Cryptography secure algorithm with user validating preservation scheme in IoT health care	Dr. B. Anjanee Kumar	202241052638	2022
18	Solar power generation forecasting using ensemble approach based on deep learning and statistical methods	Dr. Kausar Jahan, Dr. R. Vaikuntha Rao, Dr. P. Srinivas	202241058112	2022
19	Tracking the maximum power point of photovoltaic grids using ML and IoT	Dr. B. Anjanee Kumar	202241058661	2022
20	Prediction and recommendation system using sesmic waves and wind map analysis for architectural development	Dr. P. Poorna Priya	202241059985	2022
21	Design and development of automated attendance management system based on face recognition algorithms	Mr. P. Venkata Murali	202241064573	2022
22	A system and method of determining stability of functional equations in vector space using fixed point method	Dr. Ch. Prabhakara Rao	202241068168	2022
23	Spinel ferrite nanoparticles for environment monitoring and Bio-medical Applications	Mr. Nanduri Nagaraju	202241068667	2022

24	Novel nano formulations base drugs for enhanced bioavailability	Dr. P. Pavithra	202241065549	2022
25	Magnetic Spinal ferrite nano particles for targeted drug delivery of cyto toxic drugs in disease treatment	Dr. P. Pavithra	202241065250	2022
26	Hydrogen energy production polymer electrolyte membrane water electrolysis method	Mrs. K.Hemalatha	202211069894	2022

MoUs

S.No	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	The actual activities under each MOU year wise
1	Andhra Pradesh State Skill Development Corporation (APSSDC)	2018	5 years	Internships
2	National Research Development Corporation (NRDC)	2019	5 years	Patents publication Assistance
3	Eduskills	2020	5 years	Student Internships
4	Sri Gowri Vyayam Sangham – GYM Centre	2020	5 years	Physical Training
5	Bharat Sanchar Nigam Limited (BSNL)	2021	5 years	Student Internships
6	Sri Shasha Prayathi Technologies Pvt. Ltd.	2021	5 years	Student Internships
7	Phalanx Labs Pvt.ltd	2022	5 years	Consultancy
8	Information Data System (Bharat Block Chain Network)	2022	1year	Webinar
9	Dr. Benerjee Hospital	2022	5 years	Emergency Health Care
10	HIEE Empowering Engineers Pvt Ltd	2023	3 years	Awareness Program
11	COIGN	2023	3 Years	CRT training
12	Datapro Computers Pvt. Limited (Approved Partner of NSDC)	2023	5 years	Workshop

13	Must FinTech Technologies Ltd	2023	3 years	Awareness Program