

# National Institutional Ranking Framework

Ministry of Education

Government of India

Welcome to Data Capturing System: INNOVATION

## Submitted Institute Data for NIRF'2024'

Institute Name: Vignan's Foundation for Science, Technology and Research [IR-I-U-0043]

### Sanctioned (Approved) Intake

Academic Year	2022-23	2021-22	2020-21	2019-20	2018-19	2017-18
UG [3 Years Program(s)]	120	120	120	-	-	-
UG [4 Years Program(s)]	1830	1800	1830	2040	-	-
PG [2 Year Program(s)]	282	282	-	-	-	-

### Total Actual Student Strength (Program(s) Offered by Your Institution)

(All programs of all years)	No. of Male Students	No. of Female Students	Total Students	Within State (Including male & female)	Outside State (Including male & female)	Outside Country (Including male & female)	Economically Backward (Including male & female)	Socially Challenged (SC+ST+OBC Including male & female)	No. of students receiving full tuition fee reimbursement from the State and Central Government	No. of students receiving full tuition fee reimbursement from Institution Funds	No. of students receiving full tuition fee reimbursement from the Private Bodies	No. of students who are not receiving full tuition fee reimbursement
UG [3 Years Program(s)]	218	120	338	312	24	2	220	111	0	116	34	181
UG [4 Years Program(s)]	3540	2973	6513	3336	2983	194	2260	2080	206	1849	1054	1231
PG [2 Year Program(s)]	221	242	463	247	211	5	174	202	14	158	132	72

### Start up recognized by DPIIT/startup India

Name of Venture	Year of recognition by DPIIT/startup India	DPIIT/Start up India Registration No.
MITRA BELAKU TECHNOLOGIES PRIVATE LIMITED	2022-23	DIPP136293
GRAFITO INNOVATIONS PRIVATE LIMITED	2022-23	DIPP133005
30M GENOMICS PRIVATE LIMITED	2020-21	DIPP42596
STRYDE FOOD TECH PRIVATE LIMITED	2021-22	DIPP102762
AQUAEXCHANGE AGRITECH PRIVATE LIMITED	2021-22	DIPP 83454
PICXY DIGITAL SERVICES PRIVATE LIMITED	2020-21	DIPP10437

### Startups which have got VC investment in previous 3/5 years

Name of startups	Amount received	Organisation Name	Year of receiving VC investment
Nil	0	Nil	2022-23

### FDI investment in previous 3/5 years

Name of startups	FDI investment received	Year of receiving FDI investment
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Nil	0	2022-23
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#### Innovation grant received from govt. organization in previous 3/5 years

Name of Government organisation from which grant is received	Amount of Grant received	Year of receiving grant
i-TBI by DST-NIDHI, Govt. of India	45000000	2021-22
EDP by NRDC,, Govt. of India	280000	2020-21

#### Patents

Calendar year	2022	2021	2020
No. of Patents Published	44	23	17
No. of Patents Granted	3	20	3

#### Innovations at various stages of Technology Readiness Level

Number of innovations	Stage of technology
IOT Chilli Dryer	Level 6
Krishi Raksha	Level 4
Li-Fi	Level 3
Smart Stick	Level 5
Li-Fi Router	Level 2
Implementation of Blockchain technology in Bioinformatics and Health care industries	Level 2
Gut-Omics	Level 5
Revolutionizing Animation: Using style transfer to create unique visuals	Level 5
Abnormal microbiome leading to life-threatening diseases.	Level 3
Antimicrobial resistance	Level 3
Palmyra Fruit Husk Bioethanol: A Promising Renewable Energy Source	Level 5
Smart street control system	Level 2
Plant Disease Prediction	Level 5
Women Safety Device	Level 2
Plastic Removing Robot in Oceans	Level 4
Waste to Wealth transformation from Turmeric Residue.	Level 4
Fabrication Of Automatic Rain Sensing Wiper System	Level 3
Production of biofuel from corncob and rice bran	Level 3
A novel Probiotic for modulation of gut and intestinal microbiome	Level 3
Biomimicing nanorobots	Level 2
Enhancing Microbiome Health through Bioinformatics-based Customized Probiotic Interventions	Level 4

Air Purifier with UV-C Technology	Level 5
Probiotics for scalp health	Level 2
Herbal shampoo	Level 2
Traffic signal control for public	Level 2
Sustainable laser based technology for Pest control	Level 2
Automatic Rain Sensing Wiper System	Level 3
Enabling Email Access for the visually Impaired through voice recognition"	Level 2
handheld brain hematoma device 2.0	Level 2
Edible Cutlery	Level 5
Municipal Waste Water Treatment	Level 3
Fueling the Future : Biogas	Level 3
Elution of chemical toxins using alovera gel as filtrate	Level 2
Mini generator	Level 2
Fused deposition Modelling Filament extruder for 3D Printing Machines	Level 4
An Intellectual devise for disabled people using digital technology	Level 4
Mechanised food waste digester	Level 5
A precision spraying of pesticides and insecticides using drones	Level 5
Air Purifier with UV-C Technology	Level 3
Plant Disease Prediction	Level 3
A Promising Renewable Energy Source	Level 3
Smart Stick	Level 3
Gut-Omics	Level 4
Plastic Removing Robot in Oceans	Level 2
Waste to Wealth transformation from Turmeric Residue.	Level 2
IOT Chilli Dryer	Level 4
Plant pal	Level 4
Aquabot	Level 6
Krishi Raksha	Level 2
Coconut harvesting robo	Level 6
Green Campus through Cycle Booth	Level 2
State of Art Technological Solutions	Level 5
Chilli Processing	Level 2
Gud Cookies	Level 5

Floor Cleaning Robot	Level 2
Rx Ayush	Level 4
Software Solutions using cloud technologies	Level 4
Edible Cutlery	Level 4
Organic Terrace Gardening	Level 3
Commercialization of Hydroxyapatite based Herbal tooth powder	Level 3
Glace Candy	Level 5
Kit for Domestic Organic Waste Development	Level 2
Eco Friendly Bio Fertilizer Slow U	Level 4
Air Purifier	Level 3
Mushroom Cultivation	Level 2
Smart micro oven	Level 2
Artificial assistance	Level 2
Melt FFee	Level 5
Biodegradable Carry Bags	Level 4
Smart Jewellery - Personal Safety Device	Level 4
Soapnuts Processing Unit	Level 6
Shell based formulations	Level 5

#### Ventures/startups grown to turnover of 50 lacs

Name of startups	Company's Turnover	Financial Year
30M Genomics	6200000	2022-23
30M Genomics	5500000	2021-22

#### Alumni that are Founders of Forbes/Fortune 500 companies

Name of the Alumni	Program passed from	Year of passing	Founder of company
NIL	NIL	0000	0

#### Pre-incubation:expenditure/income

Financial Year	2022-23	2021-22	2020-21
Number of Pre-incubation units	6	5	4
Expenditure on pre-incubation activities	1200000	1000000	700000
Income generated by institution through pre-incubation activities	0	0	0

#### Incubation:expenditure/income

Financial Year	2022-23	2021-22	2020-21
Number of Incubation units	2	2	5
Expenditure on Incubation activities	6000000	5500000	5000000
Income generated by institution through Incubation activities	50000	0	0

## FDP

Academic year	Title of Course	FDP Sponsored /Supported by	Certificate Program Offering Department/Centre/ Unit Name	Program Start Date	Program End Date
2022-23	FDP on Implementing NEP - 2020 through R - 22	VFSTR	ACADAMY FOR FACULTY DEVELOPMENT (AFD)	2022-07-11	2022-07-16
2022-23	FDP on OBE	VFSTR	ACADAMY FOR FACULTY DEVELOPMENT (AFD)	2022-08-16	2022-08-20
2022-23	FDP on UHV	VFSTR	ACADAMY FOR FACULTY DEVELOPMENT (AFD)	2023-06-16	2023-06-20
2020-21	FDP on OBE	VFSTR	ACADAMY FOR FACULTY DEVELOPMENT (AFD)	2021-06-21	2021-06-30
2022-23	Academic Outreach Program	VFSTR	A joint initiative of Aeronautics Research and Development Board (AR&DB), DRDO and IIT Tirupathi	2022-09-07	2022-09-07
2021-22	FDP on Machine Learning and its Applications with python	VFSTR	Department of Computer Science Engineering	2022-01-17	2022-01-26
2021-22	Computer Aided Drug Design Computational Approaches in Drug Design	VFSTR	DEPARTMENT OF PHARMACY	2022-04-17	2022-04-21
2021-22	Recent Advances in Microbes & Plants: Basic to Applied Aspects	VFSTR	DEPARTMENT OF BIOTECHNOLOGY	2021-08-16	2021-08-18
2021-22	National FDP/SDP on Recent Advances in Science & Technology Innovations	VFSTR	ACADAMY FOR FACULTY DEVELOPMENT (AFD)	2022-06-20	2022-06-24
2021-22	3D Printing Technology in Manufacturing for Patient Specific Drug Delivery	VFSTR	DEPARTMENT OF PHARMACY	2021-08-15	2021-08-20
2021-22	Strategies for Pharmaceutical Education in Post Pandemic Era	VFSTR	DEPARTMENT OF PHARMACY	2022-03-21	2022-03-26
2021-22	One Week Online Faculty Development Program on visualization of Data Using Tableau and Scala	VFSTR	ACADAMY FOR FACULTY DEVELOPMENT (AFD)	2021-06-07	2021-06-13
2021-22	Internet of things-Block chain & Cyber Security	VFSTR	Department of Computer Science Engineering	2022-05-16	2022-05-22
2021-22	Machine Learning Models for Disease Diagnosis: A Practical Approach	VFSTR	Department of Computer Science Engineering	2021-07-19	2021-07-25
2021-22	One Week Online Faculty Development Program on Data Analytics	VFSTR	ACADAMY FOR FACULTY DEVELOPMENT (AFD)	2021-12-06	2021-12-12
2021-22	One Week Online Faculty Development Program on Blockchain and its Applications	VFSTR	ACADAMY FOR FACULTY DEVELOPMENT (AFD)	2022-03-07	2022-03-13
2021-22	One Week Faculty program on Advanced Textile Design	VFSTR	ACADAMY FOR FACULTY DEVELOPMENT (AFD)	2021-08-23	2021-08-27

2021-22	Workshop organized on	VFSTR	Department of Computer Science Engineering	2022-05-04	2022-05-09
2021-22	Workshop Organized on Smart innovation, systems and Technologies	VFSTR	Department of Computer Science Engineering	2021-12-06	2021-12-11
2021-22	Workshop Organized on Emerging Trends in Industrial Power Electronics	VFSTR	DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING	2021-09-13	2021-09-18
2021-22	FDP ON "Modelling and Simulation Studies in Civil Engineering Practices Using ANSYS	VFSTR	DEPARTMENT OF CIVIL ENGINEERING	2021-10-20	2021-10-26
2021-22	FDP on Quantum Geographic Information System	VFSTR	Department of Computer Science Engineering	2022-02-14	2022-02-20
2021-22	FDP-ATAL FDP on Machine Learning & Computer Vision (Advanced)	VFSTR	Department of Computer Science Engineering	2021-07-05	2021-07-09
2021-22	RF Circuits And Antenna Design Techniques	VFSTR	DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING	2021-07-19	2021-07-24
2021-22	Scientific Writing Using LATEX	VFSTR	ACADAMY FOR FACULTY DEVELOPMENT (AFD)	2021-07-22	2021-07-23
2021-22	NDIAS ASCENT ON THE 5g LADDER	VFSTR	ACADAMY FOR FACULTY DEVELOPMENT (AFD)	2021-07-09	2021-07-09
2020-21	Skill Development Program on VHDL and Verilog	VFSTR	ACADAMY FOR FACULTY DEVELOPMENT (AFD)	2021-02-15	2021-02-20
2020-21	FDP-ATAL FDP on Machine Learning & Computer Vision (Basic)	VFSTR	Department of Computer Science Engineering	2021-06-21	2021-06-25
2020-21	4th National Conference on	VFSTR	DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING	2020-10-09	2020-10-10
2020-21	Role of Power Electronics in Electric Vehicles and Charging Infrastructure	VFSTR	DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING	2021-05-28	2021-06-03
2020-21	Issues in Grid integration of Renewable Energy	VFSTR	DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING	2021-06-06	2021-06-12
2020-21	National FDP on Applications on AI & Blockchain	VFSTR	ACADAMY FOR FACULTY DEVELOPMENT (AFD)	2021-04-01	2021-04-10
2020-21	Faculty Development Program On Android Application Development	VFSTR	Department of Computer Science Engineering	2021-06-14	2021-06-20
2020-21	Faculty Development Program on Artificial Intelligence and Machine Learning	VFSTR	Department of Computer Science Engineering	2021-06-04	2021-06-10
2020-21	Faculty Development Program on Block Chain Technologies	VFSTR	ACADAMY FOR FACULTY DEVELOPMENT (AFD)	2021-05-24	2021-05-30
2020-21	FDP on Deep Learning	VFSTR	Department of Computer Science Engineering	2020-08-17	2020-08-22
2020-21	FDP on Python Programming	VFSTR	Department of Computer Science Engineering	2020-09-20	2020-09-25
2020-21	FDP on Computer Forensics and Cyber Crimes	VFSTR	Department of Computer Science Engineering	2021-05-10	2021-05-15

#### Academic Courses in Innovation, Entrepreneurship and IPR

Academic year	Title of Course	Course Code	Type of Course	Level of Course(UG/PG/PhD)	Course Offering Department/Centre/ UnitName	Total Credit Score
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2022-23	Food Plant Layout & Equipment Design	19FT402	Core Course	UG	B.Tech-Food Technology	4
2022-23	Civil Procedure Code & Limitation Act	20LA029	Core Course	UG	B.A., LLB	4
2022-23	Law of Evidence	20LA035	Core Course	UG	B.A., LLB	4
2022-23	Alternative Dispute Resolution (Clinical Paper-I)	20LA036	Core Course	UG	B.A., LLB	4
2022-23	Civil Procedure Code & Limitation Act	20LB029	Core Course	UG	B.B.A., LLB	4
2022-23	Law of Evidence	20LB035	Core Course	UG	B.B.A., LLB	4
2022-23	Alternative Dispute Resolution (Clinical Paper-I)	20LB036	Core Course	UG	B.B.A., LLB	4
2022-23	Operating Systems	21CB221	Core Course	UG	B.Tech- CSE - Computer Science and Business Systems	3
2022-23	Fundamentals of Economics	22AECO141	Core Course	UG	B.Sc (Hons.)-Agriculture	3
2022-23	Agricultural Marketing, Trade and Prices	22AECO242	Core Course	UG	B.Sc (Hons.)-Agriculture	3
2022-23	Agricultural Heritage	22AGRO101	Core Course	UG	B.Sc (Hons.)-Agriculture	1
2022-23	Optimization Techniques	22AM951	Elective Course	UG	B.Tech. CSE - Artificial Intelligence and Machine Learning	4
2022-23	Evolutionary Computing	22AM952	Elective Course	UG	B.Tech. CSE - Artificial Intelligence and Machine Learning	4
2022-23	Kernel Methods for Pattern Analysis	22AM953	Elective Course	UG	B.Tech. CSE - Artificial Intelligence and Machine Learning	4
2022-23	Machine Learning Tools	22AM960	Elective Course	UG	B.Tech. CSE - Artificial Intelligence and Machine Learning	4
2022-23	Communication Skills and Personality Development	22BEAS108	Elective Course	UG	Humanities and Science	2
2022-23	Entrepreneurship Development and Business Management	22BEAS207	Elective Course	UG	Humanities and Science	3
2022-23	Expression Data and Image Analysis	22BI804	Elective Course	UG	B.Tech-Bioinformatics	3
2022-23	Pharmacogenomics	22BI951	Elective Course	UG	B.Tech-Bioinformatics	4
2022-23	Metabolomics	22BI952	Elective Course	UG	B.Tech-Bioinformatics	4
2022-23	Comparative & Functional Genomics	22BI953	Elective Course	UG	B.Tech-Bioinformatics	4
2022-23	Biomaterials and Artificial Organs	22BM207	Elective Course	UG	B.Tech-Biomedical Engineering	3
2022-23	Assistive devices and Implant Technology	22BM951	Elective Course	UG	B.Tech-Biomedical Engineering	4
2022-23	Embedded Systems for Medical Devices	22BM952	Elective Course	UG	B.Tech-Biomedical Engineering	4
2022-23	Biofluids and Dynamics	22BM953	Elective Course	UG	B.Tech-Biomedical Engineering	4
2022-23	Medical Physics	22BM954	Elective Course	UG	B.Tech-Biomedical Engineering	4

2022-23	Machine Vision in Medical Technology	22BM955	Elective Course	UG	B.Tech-Biomedical Engineering	4
2022-23	Soft Computing Techniques	22BM956	Elective Course	UG	B.Tech-Biomedical Engineering	4
2022-23	Robotics and Automation in Medicine	22BM957	Elective Course	UG	B.Tech-Biomedical Engineering	4
2022-23	Virtual Reality	22BM958	Elective Course	UG	B.Tech-Biomedical Engineering	4
2022-23	3D Bioprinting	22BT801	Elective Course	UG	B.Tech-Bioinformatics	3
2022-23	Bioethics and Intellectual Property Rights	22BT804	Elective Course	UG	B.Tech-Bioinformatics	3
2022-23	Probiotics and Functional Foods	22BT951	Elective Course	UG	B.Tech-Biotechnology	4
2022-23	Food Biotechnology	22BT952	Elective Course	UG	B.Tech-Biotechnology	4
2022-23	Metagenomics	22BT953	Elective Course	UG	B.Tech-Biotechnology	4
2022-23	Next Generation Sequencing	22BT954	Elective Course	UG	B.Tech-Biotechnology	4
2022-23	Theory of Plates & Shells	22CE952	Elective Course	UG	B.Tech-Civil Engineering	4
2022-23	Design of Underground Water Structures	22CE954	Elective Course	UG	B.Tech-Civil Engineering	4
2022-23	Green Buildings	22CE956	Elective Course	UG	B.Tech-Civil Engineering	4
2022-23	Solid & Hazardous Waste Management	22CE957	Elective Course	UG	B.Tech-Civil Engineering	4
2022-23	Advanced Soil Mechanics	22CE958	Elective Course	UG	B.Tech-Civil Engineering	4
2022-23	Intelligent Transportation Systems	22CE959	Elective Course	UG	B.Tech-Civil Engineering	4
2022-23	Construction Techniques and Equipments	22CE961	Elective Course	UG	B.Tech-Civil Engineering	4
2022-23	Quality Control and Assurance in Construction	22CE962	Elective Course	UG	B.Tech-Civil Engineering	4
2022-23	Resource Management and Control in Construction	22CE963	Elective Course	UG	B.Tech-Civil Engineering	4
2022-23	Construction & Project Management	22CE964	Elective Course	UG	B.Tech-Civil Engineering	4
2022-23	Lean Construction Management./ Project Work	22CE965	Elective Course	UG	B.Tech-Civil Engineering	4
2022-23	Natural Gas Engineering	22CH951	Elective Course	UG	B.Tech-Chemical Engineering	4
2022-23	Natural Gas Hydrates and Coal Bed Methane	22CH952	Elective Course	UG	B.Tech-Chemical Engineering	4
2022-23	Petrochemicals	22CH953	Elective Course	UG	B.Tech-Chemical Engineering	4
2022-23	Petroleum Refinery Engineering	22CH954	Elective Course	UG	B.Tech-Chemical Engineering	4
2022-23	Data Structures & Algorithms	22CS101	Elective Course	UG	B.Tech-Computer Science and Business Systems	4
2022-23	Advanced Graph Algorithms	22CS951	Elective Course	UG	B.Tech-Computer Science and Engineering	4
2022-23	Biometrics	22CS952	Elective Course	UG	B.Tech-Computer Science and Engineering	4



2022-23	Parallel and Distributed Computing	22CS953	Elective Course	UG	B.Tech-Computer Science and Engineering	4
2022-23	Full Stack Development	22CS961	Elective Course	UG	B.Tech-Computer Science and Engineering	4
2022-23	Mobile Application Development	22CS962	Elective Course	UG	B.Tech-Computer Science and Engineering	4
2022-23	Software Testing and Automation	22CS963	Elective Course	UG	B.Tech-Computer Science and Engineering	4
2022-23	Artificial Neural Networks	22CSB802	Elective Course	PG	M.Tech-CSE	3
2022-23	Deep Learning	22CSB803	Elective Course	PG	M.Tech-CSE	3
2022-23	Computer Vision	22CSB804	Elective Course	PG	M.Tech-CSE	3
2022-23	Pattern Recognition	22CSB805	Elective Course	PG	M.Tech-CSE	3
2022-23	Natural Language Processing	22CSB809	Elective Course	PG	M.Tech-CSE	3
2022-23	Time Series Analysis and Forecasting	22CSB810	Elective Course	PG	M.Tech-CSE	3
2022-23	Kernel Methods for Pattern Analysis	22CSB811	Elective Course	PG	M.Tech-CSE	3
2022-23	Mobile and Wireless Security	22CY951	Elective Course	UG	B.Tech. CSE - Cyber Security	4
2022-23	Advanced Cryptography	22CY952	Elective Course	UG	B.Tech. CSE - Cyber Security	4
2022-23	Malware Analysis	22CY953	Elective Course	UG	B.Tech. CSE - Cyber Security	4
2022-23	Security Audit and Risk Assessment	22CY954	Elective Course	UG	B.Tech. CSE - Cyber Security	4
2022-23	Biometrics	22CY955	Elective Course	UG	B.Tech. CSE - Cyber Security	4
2022-23	Google Cyber Security Professional Competency	22CY960	Elective Course	UG	B.Tech. CSE - Cyber Security	4
2022-23	Data Analysis using R	22DS960	Elective Course	UG	B.Tech. CSE - Data Science	4
2022-23	Computer Vision and Image Processing	22EC951	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	Applied Data Science with Python	22EC952	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	Machine Learning Techniques	22EC953	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	Reinforcement Learning in Python	22EC954	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	Array Signal Processing	22EC955	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	Free Space Optics	22EC956	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	SDR for Future Communication Systems	22EC959	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	Cloud Computing for IoT systems	22EC962	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4

2022-23	Embedded System Design using FPGA	22EC963	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	IoT Architecture	22EC966	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	IoT Design	22EC967	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	IoT Security	22EC968	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	Sensors and Actuators for IoT	22EC969	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	Microstrip and Printed Antenna Design	22EC971	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	Modeling and Simulation of Phased-Array Antennas	22EC973	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	RF Transceiver System Design	22EC974	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	Deep Learning	22EC979	Elective Course	UG	B.Tech-Electronics and Communication Engineering	4
2022-23	Electric Vehicles Technology	22EE951	Elective Course	UG	B.Tech-Electrical and Electronics Engineering	4
2022-23	Energy Storage and Management System	22EE952	Elective Course	UG	B.Tech-Electrical and Electronics Engineering	4
2022-23	EV Charging Infrastructure and BMS	22EE953	Elective Course	UG	B.Tech-Electrical and Electronics Engineering	4
2022-23	Modelling and Simulation of Electric Vehicles	22EE954	Elective Course	UG	B.Tech-Electrical and Electronics Engineering	4
2022-23	Intelligent Transport Systems	22EE955	Elective Course	UG	B.Tech-Electrical and Electronics Engineering	4
2022-23	Smart Grid Technologies	22EEB805	Elective Course	PG	M.Tech-PED	3
2022-23	Flexible of AC Transmission Systems	22EEB806	Elective Course	PG	M.Tech-PED	3
2022-23	Soft Computing Techniques in Electrical Engineering	22EEB807	Elective Course	PG	M.Tech-PED	3
2022-23	EV Charging Infrastructure and BMS	22EEB811	Elective Course	PG	M.Tech-PED	3
2022-23	Modelling and Simulation of Electric Vehicles	22EEB812	Elective Course	PG	M.Tech-PED	3
2022-23	Fundamentals of Entomology I (Insect Morphology and Taxonomy)	22ENTO131	Elective Course	UG	B.Sc (Hons.)-Agriculture	3
2022-23	Product Manufacturing Technology	22FMB808	Elective Course	PG	M.Tech-FM	3
2022-23	Farm Machinery Dynamics, Noise and Vibration	22FMB809	Elective Course	PG	M.Tech-FM	3
2022-23	Engineering Properties of Food Materials	22FMB810	Elective Course	PG	M.Tech-FM	3
2022-23	Geo-Informatics and Nano-Technology for Precision Farming	22FMB811	Elective Course	PG	M.Tech-FM	3

2022-23	Machinery for Horticulture and Protected Agriculture	22FMB813	Elective Course	PG	M.Tech-FM	3
2022-23	Machinery for Precision Agriculture	22FMB814	Elective Course	PG	M.Tech-FM	3
2022-23	Foundation Skills in Integrated Product Development	22FMB815	Elective Course	PG	M.Tech-FM	3
2022-23	Beverage Technology	22FT951	Elective Course	UG	B.Tech-Food Technology	4
2022-23	Emerging Trends in Food Processing	22FT952	Elective Course	UG	B.Tech-Food Technology	4
2022-23	Extrusion Technology	22FT953	Elective Course	UG	B.Tech-Food Technology	4
2022-23	Waste Management and by-Product Utilization	22FT954	Elective Course	UG	B.Tech-Food Technology	4
2022-23	Processing of High Value Commercial Food Crops	22FTB806	Elective Course	PG	M.Tech-FPT	3
2022-23	Emerging Technologies in Food Safety and Quality	22FTB809	Elective Course	PG	M.Tech-FPT	3
2022-23	Food Licensing and Registration System	22FTB810	Elective Course	PG	M.Tech-FPT	3
2022-23	Food Safety and Quality Standards	22FTB811	Elective Course	PG	M.Tech-FPT	3
2022-23	Entrepreneurship in Food Industries	22FTB813	Elective Course	PG	M.Tech-FPT	3
2022-23	Robotics & Computer Controlled Machines	22FTB817	Elective Course	PG	M.Tech-FPT	3
2022-23	IT in Food Processing	22FTB819	Elective Course	PG	M.Tech-FPT	3
2022-23	AI & ML in Food Processing	22FTB820	Elective Course	PG	M.Tech-FPT	3
2022-23	Artificial Neural Networks	22IT951	Elective Course	UG	B.Tech-Information Technology	4
2022-23	Computer Vision	22IT952	Elective Course	UG	B.Tech-Information Technology	4
2022-23	Deep Learning	22IT953	Elective Course	UG	B.Tech-Information Technology	4
2022-23	Image and Video Analytics	22IT954	Elective Course	UG	B.Tech-Information Technology	4
2022-23	Natural Language Processing	22IT955	Elective Course	UG	B.Tech-Information Technology	4
2022-23	Mobile Application Development	22IT958	Elective Course	UG	B.Tech-Information Technology	4
2022-23	Software Testing And Automation	22IT959	Elective Course	UG	B.Tech-Information Technology	4
2022-23	Big Data Analytics	22MC801	Elective Course	PG	MCA	4
2022-23	Mobile Application Development	22MC803	Elective Course	PG	MCA	4
2022-23	Software Project Management	22MC804	Elective Course	PG	MCA	4
2022-23	Data Science using Python	22MC807	Elective Course	PG	MCA	4
2022-23	Machine Learning through python	22MC808	Elective Course	PG	MCA	4
2022-23	Deep Learning	22MC809	Elective Course	PG	MCA	4
2022-23	Full Stack Technologies	22MC810	Elective Course	PG	MCA	4

2022-23	Medical Image analysis	22MC811	Elective Course	PG	MCA	4
2022-23	Design of Shape Memory Actuators	22MDB802	Elective Course	PG	M.Tech-MD	3
2022-23	Design Synthesis	22MDB804	Elective Course	PG	M.Tech-MD	3
2022-23	Product Development and Value Engineering	22MDB811	Elective Course	PG	M.Tech-MD	3
2022-23	Design for Additive Manufacturing	22MDB812	Elective Course	PG	M.Tech-MD	3
2022-23	3D Printing and Design	22ME801	Elective Course	UG	B.Tech-Mechanical Engineering	3
2022-23	Design and Fabrication of Composite Materials	22ME813	Elective Course	UG	B.Tech-Mechanical Engineering	3
2022-23	Design of Smart Actuators	22ME814	Elective Course	UG	B.Tech-Mechanical Engineering	3
2022-23	Modelling and Simulation of Manufacturing Systems	22ME827	Elective Course	UG	B.Tech-Mechanical Engineering	3
2022-23	Nano material synthesis and Characterization Techniques	22ME828	Elective Course	UG	B.Tech-Mechanical Engineering	3
2022-23	Product Design for Manufacturing	22ME830	Elective Course	UG	B.Tech-Mechanical Engineering	3
2022-23	Marketing Research	22MS801	Elective Course	PG	MBA	3
2022-23	Consumer Behavior	22MS802	Elective Course	PG	MBA	3
2022-23	Sales & Distribution Management	22MS803	Elective Course	PG	MBA	3
2022-23	Retail Management	22MS804	Elective Course	PG	MBA	3
2022-23	Tourism Marketing	22MS805	Elective Course	PG	MBA	3
2022-23	Investment Analysis and Portfolio Management	22MS806	Elective Course	PG	MBA	3
2022-23	International Financial Management	22MS807	Elective Course	PG	MBA	3
2022-23	Management of Financial Services	22MS808	Elective Course	PG	MBA	3
2022-23	Industrial Relations and Labour Laws	22MS811	Elective Course	PG	MBA	3
2022-23	Cross Cultural Management	22MS812	Elective Course	PG	MBA	3
2022-23	Talent Management & Succession Planning	22MS813	Elective Course	PG	MBA	3
2022-23	Strategic and International HRM	22MS815	Elective Course	PG	MBA	3
2022-23	Supply Chain Management	22MS817	Elective Course	PG	MBA	3
2022-23	Productivity Improvement and Cost Control	22MS818	Elective Course	PG	MBA	3
2022-23	Business Analytics for Managers	22MS820	Elective Course	PG	MBA	3
2022-23	Analytics using R Programme	22MS821	Elective Course	PG	MBA	3
2022-23	Data Visualization using Tabula	22MS822	Elective Course	PG	MBA	3
2022-23	Machine Learning	22MS823	Elective Course	PG	MBA	3

2022-23	Python for Data Analytics	22MS824	Elective Course	PG	MBA	3
2022-23	Advertising & Brand Management	22MS825	Elective Course	PG	MBA	3
2022-23	Services Marketing	22MS826	Elective Course	PG	MBA	3
2022-23	Digital Marketing	22MS827	Elective Course	PG	MBA	3
2022-23	International Marketing	22MS828	Elective Course	PG	MBA	3
2022-23	Strategic Marketing	22MS829	Elective Course	PG	MBA	3
2022-23	Behavioural Finance	22MS832	Elective Course	PG	MBA	3
2022-23	Strategic Financial Management	22MS833	Elective Course	PG	MBA	3
2022-23	Risk Management in Banks	22MS834	Elective Course	PG	MBA	3
2022-23	Compensation & Reward System	22MS835	Elective Course	PG	MBA	3
2022-23	Leadership & People Management	22MS839	Elective Course	PG	MBA	3
2022-23	Innovation and Product Development	22MS840	Elective Course	PG	MBA	3
2022-23	Competitive Manufacturing Management	22MS841	Elective Course	PG	MBA	3
2022-23	Technology Management	22MS842	Elective Course	PG	MBA	3
2022-23	Financial Analytics	22MS846	Elective Course	PG	MBA	3
2022-23	HR Analytics	22MS847	Elective Course	PG	MBA	3
2022-23	Finance For Engineers`	22MS903	Elective Course	PG	MBA	4
2022-23	Engineering Entrepreneurship	22MS904	Elective Course	PG	MBA	4
2022-23	Introduction to Entrepreneurship	22MS906	Elective Course	PG	MBA	4
2022-23	Product Ideation and Prototype Development	22MS907	Elective Course	PG	MBA	4
2022-23	Intellectual Property Rights	22MS908	Elective Course	PG	MBA	4
2022-23	Marketing and Finance for Startups	22MS909	Elective Course	PG	MBA	4
2022-23	Event Management Planning	22MS911	Elective Course	PG	MBA	4
2022-23	Event Hospitality, Law & Permissions	22MS913	Elective Course	PG	MBA	4
2022-23	Event Cost Accounting & Finance Management	22MS914	Elective Course	PG	MBA	4
2022-23	Event Risk Management	22MS915	Elective Course	PG	MBA	4
2022-23	Research Methodology and IPR	22MS401	Elective Course	PG	Humanities and Science	3
2022-23	Legged Robots	22RA802	Elective Course	UG	B.Tech- Robotics and Automation Engineering	3
2022-23	Advanced Design of Steel Structure	22SEB803	Elective Course	PG	M.Tech-SE	3
2022-23	Advanced Pre-Stressed Concrete	22SEB806	Elective Course	PG	M.Tech-SE	3

2022-23	Design of Tall Structures	22SEB808	Elective Course	PG	M.Tech-SE	3
2022-23	Earthquake Resistant Design of Structures	22SEB811	Elective Course	PG	M.Tech-SE	3
2022-23	Design of Under Ground Structures	22SEB816	Elective Course	PG	M.Tech-SE	3
2022-23	Full Stack Development-I	22TD951	Elective Course	UG	B.Tech., All	4
2022-23	Full Stack Development-II	22TD952	Elective Course	UG	B.Tech., All	4
2022-23	Full Stack Development-III	22TD953	Elective Course	UG	B.Tech., All	4
2022-23	Full Stack Development-IV	22TD954	Elective Course	UG	B.Tech., All	4
2022-23	Full Stack Development-V	22TD955	Elective Course	UG	B.Tech., All	4
2022-23	Garment Construction Techniques	22TT802	Elective Course	UG	B.Tech-Textile Technology	3
2022-23	Fashion product development	22TT952	Elective Course	UG	B.Tech-Textile Technology	4
2022-23	Apparel Production Planning and Process Control	22TT953	Elective Course	UG	B.Tech-Textile Technology	4
2022-23	Apparel Marketing and Merchandising	22TT954	Elective Course	UG	B.Tech-Textile Technology	4
2022-23	Lean and Six Sigma for Textiles and Apparel	22TT955	Elective Course	UG	B.Tech-Textile Technology	4
2022-23	Product Design for Manufacturing	22ME830	Elective Course	UG	B.Tech-Mechanical Engineering	3
2022-23	3D Printing and Design	22ME801	Elective Course	UG	B.Tech- Robotics and Automation Engineering	3
2022-23	Legged Robots	22RA802	Elective Course	UG	B.Tech- Robotics and Automation Engineering	3
2022-23	Design of Shape Memory Actuators	22MDB802	Elective Course	PG	M.Tech-MD	3
2022-23	Design Synthesis	22MDB804	Elective Course	PG	M.Tech-MD	3
2022-23	Product Development and Value Engineering	22MDB811	Elective Course	PG	M.Tech-MD	3
2022-23	Design for Additive Manufacturing	22MDB812	Elective Course	PG	M.Tech-MD	3
2021-22	Advanced Data Structures	19AM311	Core Course	UG	B.Tech. CSE - Artificial Intelligence and Machine Learning	4
2021-22	Drug Design	19BI334	Elective Course	UG	B.Tech-Bioinformatics	3
2021-22	Bioprocess Engineering	19BT301	Core Course	UG	B.Tech-Biotechnology	3
2021-22	Object Oriented Programming	19CB213	Core Course	UG	B.Tech- CSE - Computer Science and Business Systems	4
2021-22	Introduction to Innovation, IP Management & Entrepreneurship	19CB301	Core Course	UG	B.Tech- CSE - Computer Science and Business Systems	3
2021-22	Design Thinking	19CB302	Core Course	UG	B.Tech- CSE - Computer Science and Business Systems	4
2021-22	Sustainable Construction Methods	19CE331	Elective Course	UG	B.Tech-Civil Engineering	4
2021-22	Railway and Airport Engineering	19CE342	Core Course	UG	B.Tech-Civil Engineering	3

