roject				Discipline (degree)	Number of
	Name of the scientist		Skill set required	requirement	students
	Jai Gopal Pandey	BMS for EVs	Circuit theory, Digital, Aaanlog, VLSI	A3, A8, AA	2
	Jai Gopal Pandey Jai Gopal Pandey	Hardware Secuirty Low-power circuits for WSN	Digital Circuits, Cryptography, Verilog Communication, Digital, Circuits, VLSI	A3, A8, AA, B4, A7	2
	Jai Gopal Pandey Jai Gopal Pandey	Advanced Cryptography	Digital Circuits, Cryptography, Verilog	A3, A8, AA A3, A8, AA, B4, A7	2
4 (Jai Gopai Failuey	Optimization of deep learning algorithms for resource-constrained	Digital Circuits, Cryptography, Verliog	A3, A6, AA, B4, A7	2
5	Sanjay Singh	devices	Python, C++, Basic of ML and DL	A7, A3, A8, AA	3
6 5	Sanjay Singh	Deep learning architectures for Face Recognition in the wild	Python, C++, Basic of ML and DL	A7, A3, A8, AA	3
7 5	Sumeet Saurav	Deep learning architectures for anomaly detection in videos	Python, C++, Basic of ML and DL	A7, A3, A8, AA	3
8 5	Sumeet Saurav	Robust Lightweight CNNs for FER in Real World Conditions	Python, C++, Basic of ML and DL	A7, A3, A8, AA	2
		Development of deep learning architectures for inspection and			
9 9	Sumeet Saurav	monitoring of power line infrastructure	Python, C++, Basic of ML and DL	A7, A3, A8, AA	3
10 8	sumitra singh	sensors for prosthetic hand application		A3, A8, AA, B5	2
11 5	Soumendu Sinha	Design and simulation of PMUT/CMUT	Semiconductor devices	A3, A8, AA, A4, B5	2
12 5	Soumendu Sinha	Design and simulation of MEMS Thermoelectric Sensor	Semiconductor devices	A3, A8, AA, A4, B5	2
		Design and simulation of Piezoelectric Micro-Electro-Mechanical			
13 .	Jitendra Singh	Systems (MEMS) sensors	Semiconductor devices	A3, A8, AA, A4, B5	2
	Niraj Kumar	High Power THz source	Electronics, Electrical, Mechanical	A3, A8, AA, A4, B5	3
		Scene/ text/ object indentification and recognization through Al		, , ,	
15	Satyam	techniques	Python,Basic of ML and DL	A3, A7, A8, AA, B1,B2,B5	2
		Lession localization and priortization through computer vision			
16	Satyam	techniques for point of care imaging devices	Python,Basic of ML and DL	A3, A7, A8, AA, B1,B2,B5,A4	2
17 5	Satyam	Real- Time Prediction algorithm for low power IoT devices	Python,Basic of ML and DL, embedded systems,	A3, A7, A8, AA, B1,B2,B5,A4	3
18	Satyam	Real -Time digital imaging system development	Embedded Systems, Microcontrollers, IoT, Android	A3, A7, A8, AA, B1,B2,B5,A4	2
19	Satyam	FPGA based water quality monitoring solutions	VHDL, FPGA, Verilog	A3, A7, A8, AA, B1,B2,B5,A4	2
		low power inline solution for leekage detection in under ground			
20 5	Satyam	pipelines	Embedded Systems, Microcontrollers, IoT, Android	A3, A7, A8, AA, B1,B2,B5,A4	2
24.6	Satyam	vital health parameters detection using non- invasive methods	Embedded Systems, Microcontrollers, IoT, Android	A2 A7 A0 AA D1 D2 D5 A4	2
	Satyam	Sub- Ghz enabled micro imaging system for medical applications	Embedded Systems, Microcontrollers, IoT, Android		2
	Pijus Kundu	Design and simulation of GaN based high power devices	Semiconductor devices		
	-	<u> </u>		A3, A8, AA, A4, B5	2
	Agarwal	Terahertz (THz) Detector	Semiconductor Devices, VLSI Technology	A3, A8, AA, A4, B5	2
	Agarwal	Infrared Detector Array	Semiconductor Devices, VLSI Technology	A3, A8, AA, A4, B5	2
	Anand Abhishek	DC microgrid for agrovoltaics	Power Electronics, Electrical Engineering	A3, A8, AA, A4, B5	2
27 (GAURAV PUROHIT	RISC V based KYBER post quantum architecuture design	Python, C++, Digital design	A3,A7,A8,AA,B4,B5	3
		RISC V based REconfigurable architecture for Numer Theoritic			
28	GAURAV PUROHIT	Transform	Python, C++, Digital design	A3,A7,A8,AA,B4,B5	3

		RISC V based based Polynomial Multiplier :Montgomery and Barrett			
29	GAURAV PUROHIT	transform	Python, C++, Digital design	A3,A7,A8,AA,B4,B5	2
		Desig inhouse APPs with local database storage and ceeri cloud	Strong Python, flask, databse sql, Docker,		
30	GAURAV PUROHIT	mechanism.	container	A3,A7,A8,AA,B4,B5	2
	GAURAV PUROHIT	Android APP, APi design, for society management, gating, clubs etc		A3,A7,A8,AA,B4,B5,B3	2
	Pramod Tanwar	BCI-DATABASE generation and validation algorithms and methods.		A3,A7,A8,AA,B4,B5,B3	2
	GAURAV PUROHIT	channel estimation for 5G systems	(MATLAB/Python)	A3,A8, AA	2
34	Pramod Tanwar	DATA modelling for AR-VR android apps	3D cad, Blender	A4, A7, others interested	3
			Python, Basics of ML and DL, ROS, control		
35	Kaushal Kishore	Robotics, Navigation and control, Al and image processing	systems	A3, A7, A8, AA	3
36	Kaushal Klshore	Circuit design and PCB	Altium, Eagle, electronic circuit design	A3, A7, A8, AA	2
37	M Santosh	BMS Design	Circuit design	A3	2
38	M Santosh	Low power data converter design and testing	Analog Circuit design	A3	2
		Deep Learing based architectures for damage segmentation in Wall			
39	Dhiraj	Paintings for Digital Heritage	Python, Basics of ML and DL	A3, A7, A8, AA, B3, B4, B5	2
	,	Non face based robust person recognition using Deep Learning			
40	Dhiraj	based architectures	Python, Basics of ML and DL	A3, A7, A8, AA, B3, B4, B5	2
		Real time State of charge prediction in a battery through machine	, janen, zaeles et mz ana zz	7.6,7.6,7.6,7.7,20,2.7,20	
41	Dhiraj	learning techniques	Python, Basics of ML and DL	A3, A7, A8, AA, B3, B4, B5	2
	Drill Gj	Image inpainting to reconstruct damaged/missing parts in ancient	I farion, Basics of the and BE	76,76,76,714,26,21,26	
42	Dhiraj	art paintings through deep learning	Python, Basics of ML and DL	A3, A7, A8, AA, B3, B4, B5	2
72	Dilliaj	Unsupervised anomaly instance segmentation for threat object	ython, basics of ME and be	A3, A1, A0, AA, B3, B4, B3	
13	Dhiraj	recognition in pseudo colored x-ray images	Python, Basics of ML and DL	A3, A7, A8, AA, B3, B4, B5	2
	Ravindra Mukhiya	MEMS-based Capacitive Sensor/Transducer	Mechanical/Electronics	A3, A4, A8,, AA	2
	Ravindra Mukhiya	Readout for MEMS-based Capacitive Sensor/Transducer	Electronics/Instrumentation	A3, A4, A8,, AA	1
	Ravindra Mukhiya	MEMS-based Capacitive Accelerometer	Mechanical/Electronics	A3, A4, A8,, AA	2
	Dheeraj Kumar	IVIEIVIS-Dased Capacitive Accelerometer	Iviechanical/Electronics	A3, A4, A6,, AA	
	Kharbanda	Diaza da stria concertranaducer haced on LTCC	Machaniael/Clastroniae	A2 A4 A9 AA	•
	Knarbanda Jitendra Singh	Piezoelectric sensor/transducer based on LTCC Microwave and Millimetre waves electronic filters	Mechanical/Electronics Electronics, Microwave	A3, A4, A8,, AA A3, A8, AA, B5	2
			•		
	Amit Kumar	Development of E-field probe for EM radiation meter	Electronics, Microwave	A3, A8, AA, A4, B5	1
	Dr Bhausaheb Ashok			100 47 40 44	_
	Botre	low power E-moblity - E-bicycle for the old age people	Control System, Electrical and Electronics,	A3, A7, A8, AA	2
	Dr Bhausaheb Ashok		Control System, Electrical and Electronics,		_
	Botre	low power E-moblity - E- Tricycle for persons with disability	Mechanical	A3, A7, A8, AA	2
	Dr Bhausaheb Ashok				
-	Botre	E-mobility - Data Generation and Analysis	Embedded System, Al, Data Science and ML	A3, A7, A8, AA	2
	Dr Bhausaheb Ashok	Leakage detection, localization in Smart Water Grid using DSML			
	Botre	techniques	Embedded System, Al, Data Science and ML	A3, A7, A8, AA	2
	Dr Bhausaheb Ashok				
54	Botre	Al controlled SMA actuator	Control System, Embedded System and Al	A3, A7, A8, AA	2
		SIMSCAPE model development for EVs and controllers, FPGA,			
55	Dr L. Padmavathi	OPAL/RT based power electronics & system control implementation	Digital control, power electronics	A3, A8, AA, A4, B5	2

Dr Shashikant				
56 Sadistap			A3, A7, A8, AA, B3, B4, B5	2
		Power electronics and control, digital control,		
57 Brijendra Kumar Verma			A3, A7, A8, AA	2
	Design of non-linear control algorithm on dSPACE/MicroLabBox and			
	OPAL/RT platform for renewable energy based e-Mobility charging	linear and non-linear control design, digital control		
58 Subhash Kumar Ram	systems	design	A3, A7, A8, AA	2
59 Nikhil Suri	IR Emitter for gas sensing applications	Electronics	A3,A8, B5, AA	1
60	Electrochemical senors for various applications	Electronics, Materials	A3,A8,B5, AA	2
	Code	Discipline (degree)		
	A1	B.E. Chemical		
	A2	B.E. Civil		
	A3	B.E. Electrical & Electronics		
	A4	B.E.Mechanical		
	A5	B.Pharm.		
	A7	B.E.Computer Science		
	A8	B.E. Electronics and Instrumentation		
	AA	B.E. Electronics & Communication		