



itida | **itac**
IT INDUSTRY DEVELOPMENT AGENCY program

List of Accepted Graduation Projects - Academic Year 20/21

Project ID	Project Title	University Name
GP2021.R16.4	Smart Glove for the voiceless	Canadian International Collage
GP2021.R16.5	Smart Satellite	Benha University
GP2021.R16.6	Smart City using IoT System and Artificial Intelligence	Menofia University
GP2021.R16.7	Auto Updated Streets-Information on Map	Cairo University
GP2021.R16.9	Arabic text visualization	Alexandria University
GP2021.R16.12	ASIC Physical Design of RISC-V Core Processor for Self-Driving Automotive Applications	Cairo University
GP2021.R16.13	ChipNet CNN Hardware Acceleration on FPGA and ASIC for 3D Lidar and Camera Images in Autonomous Vehicles	Zewail city of science and technology
GP2021.R16.14	Integration of Federated Machine Learning in Smart Metering System.	Canadian Higher Institute Technology and Management.
GP2021.R16.15	Chatbot for Mode Enhancement of Drivers in Egyptian Dialect.	Cairo University
GP2021.R16.16	Analog Layout Automation using Machine Learning	Cairo University
GP2021.R16.19	Automatic Post-Layout Generation of Analog Designs using Reinforcement Learning to reduce the design time and increase productivity.	Zewail city of science and technology
GP2021.R16.20	Machine Learning Hardware Acceleration for Advanced Driving Assistance Systems (ADAS)	Cairo university
GP2021.R16.21	5G Performance Improvement using Massive MIMO and Beamforming project "PDSCH-RX"	Cairo University
GP2021.R16.22	A Novel Real-Time Tourist Attraction Platform for Marine Life Species Based on Artificial Intelligence	Nile University
GP2021.R16.23	Digital Design and Verification of Safety-Critical Automotive Application	Cairo University

GP2021.R16.25	RISC-V Based CNN Hardware Accelerator for Artificial Intelligence Applications	Cairo University
GP2021.R16.26	Four Wheel Agricultural Robot	Nile University
GP2021.R16.27	AI Based Lane Change Decision-Making for Autonomous Vehicle	Nile University
GP2021.R16.31	Design and Implementation of a Synthesizable RTL PCI-e Physical Layer Logical Part for GPUs Interconnection	Cairo University
GP2021.R16.33	Floating point unit implementation and Verification for Machine Learning and AI Applications	Cairo University
GP2021.R16.34	Implementation and Functional Verification of RISC-V Processor for IoT Applications	Cairo university
GP2021.R16.35	Design and Fabrication of 5G Reconfigurable Antenna Based on RF MEMS switches	University of Science and Technology, Zewail City
GP2021.R16.37	Transportation Vehicles with AI-enabled preliminary diagnostic detector embedded system for COVID-19 from cough sound and fever.	Cairo University
GP2021.R16.38	Digital Implementation of the RISC-V based Open PULP Core for Machine Learning applications (Hardware Acceleration).	Zewail city of science and technology
GP2021.R16.39	Brain-computer interface based control for next-generation electric wheelchairs	Alexandria University
GP2021.R16.40	Intelligent Weather Prediction System Based on NB-IoT	October University for Modern Science & Arts (MSA)
GP2021.R16.41	Intelligent Ubiquitous Chatbot for COVID-19 Assistance Based on Artificial Intelligence	Nile University
GP2021.R16.42	Implementing a Healthcare Robot that Measures and records vital signs for in-patients to reduce direct contact between nurses and patients	Cairo University

GP2021.R16.43	Low-Cost System for Remote Early Assessment of Coronary Atherosclerosis using Artificial Intelligence and Cloud Computing	Cairo University
GP2021.R16.44	Treatment of Sleep Apnea and Covid-19 using CPAP	Minia University
GP2021.R16.45	Generating green energy from fast moving Trains using novel wind turbines	Nile University
GP2021.R16.46	Electronic medical record with drug-drug interactions for clinical decision support system	Cairo Univeristy
GP2021.R16.47	Design and implementation of a microcontrolled hydraulic prosthetic knee	Ain Shams University
GP2021.R16.48	Smart Farmer	Menofia University
GP2021.R16.49	Roshetta : A mobile application for an OCR system to read medical prescriptions using deep learning techniques	Alexandria University
GP2021.R16.51	IoT Based Smart Campus	Ain Shams University
GP2021.R16.55	Building a Robot Arm to Automate The Process of Patient Care "Measuring Vital Signs" During Coronavirus Pandemic	Cairo University
GP2021.R16.56	low cost , energy efficient electric car	Egyptian Academy for Engineering and Advanced Technology
GP2021.R16.57	Generating Music Based on a Given Sentiment Using Deep Learning	Alexandria university
GP2021.R16.58	5G FPGA based Test-Bed	Al-azhar University
GP2021.R16.59	FPGA based neural network accelerator for smart farming	The British University in Egypt
GP2021.R16.63	Design and Development of an Integrated System for Autism Spectrum Classification and interactive treatment remotely	Minia University
GP2021.R16.65	Self-Charging Electric Vehicles:	The British University in Egypt (BUE)
GP2021.R16.68	Smart bed modules	Ain shams university

GP2021.R16.69	Robot rehabilitation for the lower extremity	Minia University
GP2021.R16.71	Biometric Person Authentication Using Brain Signals	Cairo University
GP2021.R16.72	Smart Faculty	Benha University
GP2021.R16.73	AI-Based Domestic Robot to Serve in Isolation Hospitals	Nile University
GP2021.R16.75	Weeding, Soil Plowing, and Cultivating Crops using Artificial Intelligence and Image Processing	Nile University
GP2021.R16.77	RoboCab	Cairo University
GP2021.R16.80	Emergency ICU Grade Mechanical Ventilator	The American University in Cairo
GP2021.R16.81	Underwater Object Detection and tracking	Ain Shams University
GP2021.R16.83	Intelligent Monitoring System for Precision Agriculture	The American University in Cairo
GP2021.R16.85	Micro-fabricated_Microfluidic_Pump	University of science and technology at Zewail city
GP2021.R16.88	Autonomous Underwater Vehicle Navigation	Ain Shams University
GP2021.R16.89	Wearable Drug Delivery Device for COVID-19 Patients	American University in Cairo
GP2021.R16.90	Tarabeza-Restaurant reservation app	Cairo University
GP2021.R16.91	Predicting B-cell conformational epitope regions using deep learning and sequence information	University of Science and Technology in Zewail City
GP2021.R16.92	Automated Report Generation In Mammography	Cairo University
GP2021.R16.93	GoSafe - Road Defects Detection and Classification	Cairo University
GP2021.R16.94	Smart vertical parking system with IOT and Mobile app	Cairo University
GP2021.R16.95	Biomix	Mansoura University
GP2021.R16.96	PCR (polymerase chain reaction)	Mansoura University
GP2021.R16.97	E-Quarantine: IOT Smart Health System For Monitoring COVID-19 Patients Remotely	Minia University

GP2021.R16.98	Mock-it: A Presentation Skills Assessment and Feedback Online Platform	Arab Academy for Science and Technology
GP2021.R16.99	3D Construction Printer	Canadian International College
GP2021.R16.102	Swarm 3D printing robots	Ain Shams University
GP2021.R16.103	Lighting the dark	Ain Shams University
GP2021.R16.104	IoT Based Smart Parking System	6 October University
GP2021.R16.105	Autonomous Car Using End to End Learning	Alexandria University
GP2021.R16.106	Smart Vision-Based Motion Tracking Mobile App for Low Frequency Displacement Measurements	Ain Shams University
GP2021.R16.107	Lower Limb Exoskeleton	Arab Academy For Science and Technology and Maritime
GP2021.R16.108	Mind-Controlled Wheelchair	Assiut University
GP2021.R16.113	Secure Identity Authentication Card (SIAC).	Ain Shams University
GP2021.R16.114	Design and Implementation of Energy Harvesting System for Medical Wearable Sensor Nodes	Ain Shams University
GP2021.R16.115	Ghost Writer II	Cairo University
GP2021.R16.116	Development and implementation of an on-board charger for plug-in hybrid electric vehicle	Aswan University
GP2021.R16.117	ICHMS_Intelligent Crop Health Monitoring System	Egyptian E-Learning University
GP2021.R16.118	Real-time monitoring scheme for automotive safety	The British University in Egypt
GP2021.R16.119	Safety and security system using FOTA and IoT	Minia university
GP2021.R16.120	Design of Smart Farm Prototype Based on Artificial Intelligence (AI Farm)	Arab Academy For Science, Technology & Maritime Transport
GP2021.R16.124	2D Signal Detector	British University in Egypt
GP2021.R16.125	Smart Wearable Monitoring and Diagnosing eHealth System	Egypt Japan University of Science and Technology (EJUST)
GP2021.R16.129	Establishing an applied educational kit for smart cities	Minia University

GP2021.R16.131	Surveillance Camera System using Machine Learning Methods	Alexandria University
GP2021.R16.132	Transcriptome Analysis for Neurodegenerative Disorders	Zewail City, University of Science and Technology
GP2021.R16.133	Autonomous Shuttle Bus: Path Planning and Control	MSA university
GP2021.R16.134	BCI for a Real Time Application to Classify Motor Commands ^[P] _{SSEP}	The American University in Cairo
GP2021.R16.135	Abnormal Event Detection	Zewail city of science and technology
GP2021.R16.136	SAMS (Smart Attendance Management System)	Menofia university
GP2021.R16.137	A Communication System for Electric Vehicles (CSEV)	Arab Academy for Science, Technology and Maritime Transport
GP2021.R16.140	Detecting In - Vehicle Violence using Machine Learning	The American University in Cairo
GP2021.R16.143	Face Mask Detection System-Covid (SRS)	The Egyptian e-Learning University
GP2021.R16.144	Bi-lateral control of medical robotic arm using internet of robotic things (IORT) and virtual reality (VR)	Arab academy for science and technology
GP2021.R16.145	Optical communications for Underwater IoT	Egypt-Japan University of Science and Technology
GP2021.R16.147	Driver support	Future university in Egypt (FUE)
GP2021.R16.148	My Doctor	Menoufia University
GP2021.R16.149	An IoT based wearable medical monitoring device for healthcare application	Assiut University