STUDENT PROJECTS (BATCH 05-Year 2017-18) UNDER SUPARCO-ACADEMIA COLLABORATION PROGRAMME

S.No	Project ID	Title
1	B05-RIW001	Design & development of VTOL based aerial vehicle Frame with heavy payload capacity
2	B05-RIW002	Mobile app development for Autopilot Ground Control Station using SDKs
3	B05-RIW003	Software development for NDVI data set generation using low resolution thermal camera
4	B05-RIW004	PPK solution development for offline high accuracy geo tagging of imagery
5	B05-RIW005	Interfacing of ADC: ADS1298 with Intel Joule using Python
6	B05-RIW006	Low cost multi-sensor integrated navigation using FPGA
7	B05-RIW007	Moving object detection and its position estimation from a video stream
8	B05-RIW008	Autonomous control of robotic manipulator using vision sensor
9	B05-RIW009	Development of GNSS Jamming Detection Systems
10	B05-RIW0010	Integrity Monitoring of GNSS
11	B05-RIW0011	Tectonic Plate Movement Monitoring using GNSS
12	B05-RIW0012	Web-Based Real-Time Monitoring System of GNSS Data Streams from Server
13	B05-SARW001	Development of Indigenous Mapping Engine
14	B05-SARW002	Development of Cross Platform Mobile Application
15	B05-SARW003	Development of GIS based Road Navigation and Supporting Data for Navigation Applications
16	B05-SARW004	Comparison of Maximum Electron Density of F2 Layer with that Obtained from International Reference Ionosphere

17	B05-SARW005	Development of algorithm for the determination of electro jet index
18	B05-SARW006	Categorization of Radio Bursts Observed in Callisto FITS Files
19	B05-SARW007	Development of Android App for Space Weather Summary Generation
20	B05-SARW008	Post-processing of Scintillation Data: Decryption, Noise Removal and Events Identification
21	B05-SARW009	Development of a Ground Based Cosmic Rays Detector
22	B05-SARW010	Remote Sensing & GIS application to monitor coastal changes
23	B05-SARW011	Drought Study using RS and GIS tools
24	B05-SARW012	Satellite Data Applications in Glacialogy and Climate Change Studies
25	B05-SARW013	Spatial Analysis in Epideomology in collaboration with hospitals
26	B05-STW001	Investigation into cracking and effect of thermal cycling in Maraging Steels
27	B05-STW002	Investigation into Welding of Aluminum Alloy 7075
28	B05-STW003	Enhancement of Protection level of Ballistic Helmets using Aramid Fiber with Epoxy Matrix System
29	B05-STW004	Application of Polyethylene (PE) Fiber in the design and development of Bullet Proof Jackets and Light Weight Combat Helmets
30	B05-STW005	Design and Development of Fiber Reinforced Composites Radomes

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31	B05-STW006	Design and Development of Composite Eectromagnetic Interference Sheets used in Space Applications
32	B05-STW007	Design and Pilot Model Development of Zero Gravity Chamber
33	B05-STW008	Design of splitted halves fibre structure Observatory Dome of 4 mtr diameter with shutter/door automation for Astronomical Telescope
34	B05-STW009	Design and analysis of intelligent / smart composite beam structure by using the coupling stiffness
35	B05-STW010	Design and analysis of observatory dome structure against different aerodynamic fluctuating load scenario and structural fatigue life estimation
36	B05-SEW-001	Implementation of 8-PSK Modulator and Demodulator based on FPGA for secure satellite modem
37	B05-SEW-002	Implementation of QPSK Modulator and Demodulator based on FPGA
38	B05-SEW-003	Design and development of FPGA based Forward Error Correction schemes for Satellite Modem.
39	B05-SEW-004	Design and development of Packet Processor Board for Satellite Modem.
40	B05-SEW-005	Design and Development of a Programmable Wideband Frequency Hopped Local Oscillator
41	B05-SEW-006	Optimizing key material parameters of radiation shields for space electronic enclosures
42	B05-SEW-007	Effect of Thickness Variation of Epoxy Based CFRP Composites on Mechanical Properties
43	B05-SEW-008	Design and Development of Computer Controlled RF Switch Matrix