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S.No.	Year	Student Case title	Student case City, Country	Student teams type	Participating HEIs (Students/Mentors)	Coordinating HEIs	Case stakeholder(s)	Types of stakeholder(s)
1	2019	Sustainable community reconstruction after disaster (post 2015 earthquake) 2018-2019	Espoo, Finland Lalitpur, Nepal Dhungegar, Nepal	Mixed International	AITM, Aalto	AITM, Aalto	International Centre for Integrated Mountain Development (ICIMOD) Samajik Sahayata Nepal Dhungegar Community Local Mothers' group Local network of Social Mobilizers	INGO NGO Community
2	2019	Affordable housing and slum rehabilitation I (2019)	Mumbai, India	Mixed International	NEC, KTU, Aalto, JNEC, SEC, AITM, IITB	IITB	Larsen and Toubro Realty Limited Department of Construction Technology and Management, IITB	Commercial/Business Academic Department/HEI
3	2019	Affordable housing and slum rehabilitation II (2019)	Mumbai, India	Mixed International	NEC, TU Delft, Aalto, JNEC, SEC, AITM, IISc, IITB	IITB	Larsen and Toubro Realty Limited Department of Construction Technology and Management, IITB	Commercial/Business Academic Department/HEI
4	2019	Construction and demolition waste management (2019)	Mumbai, India	Mixed International	NEC, KTU, SEC, KU, IITB	IITB	Department of Civil Engineering, IITB	Academic Department/HEI
5	2019	Modular housing scheme for a public housing provider in a low-income locality, Maharashtra (2019)	Mumbai, India	Mixed International	TU Delft, KTU, Aalto, JNEC, SEC, AITM, IISc, IITB	IITB	A public housing company Bhiwandi Community	Commercial/Business Community
6	2019	Accessible Healthcare (2019)	Mumbai, India	Mixed International	TU Delft, KU, Aalto, JNEC, SEC, NEC, IISc	IISc, IITB	Medical Device Lab, IISc Hear Well Clinic Rotary Institute for the Deaf, Kamala Dharamshi Narsee Shruti School	Academic Department/HEI Commercial/Business School
7	2019	Redevelopment of Artist Village Belapur (2019)	Mumbai, India	Mixed International	TU Delft, AITM, Aalto, JNEC, KTU, NEC, IISc	IITB	Artist Village Belapur Community	Community
8	2019	Liveability in slums (2019)	Mumbai, India	Mixed International	TU Delft, KU, Aalto, JNEC, SEC, NEC, IISc, IITB, KTU, AITM	IITB	Center for Urban Science and Engineering, IITB Shivaji Nagar Community	Academic Department/HEI Community
9	2020	Supporting the development of sustainable waste management in Samdrup Jongkhar, Bhutan (2019-2020)	Espoo, Finland Samdrup Jongkhar, Bhutan	Mixed International	JNEC, Aalto	JNEC, Aalto	Samdrup Jongkhar Initiative Samdrup Jongkhar town Municipal cooperation Schools	Civil Service Organization Community School Local government
10	2021	Landslides Susceptibility Analysis in Dewathang, Samdrup Jongkhar (2020-2021)	Espoo, Finland Samdrup Jongkhar, Bhutan	Mixed International	JNEC, Aalto	JNEC, Aalto	Dewathang Community	Community
11	2020	A Nepali Theme Restaurant at Panauti (EDP) (2020)*	Lalitpur, Nepal Panauti, Nepal	Local	AITM	AITM	Panauti Municipality, Ward No. 7 Panauti Community Homestay Panauti Tourism Development Centre Panauti Community	Local government Commercial/Business Local government Community
12	2020	Modern Organic Farm at Panauti (EDP) (2020)*	Lalitpur, Nepal Panauti, Nepal	Local	AITM	AITM	Panauti Municipality, Ward No. 7 Panauti Community Homestay Panauti Tourism Development Centre Panauti Community	Local government Commercial/Business Local government Community
13	2020	Integrated Digital Electronics (2020)*	Bhaktapur, Nepal Kathmandu, Nepal	Local	NEC	NEC	Savvy Tech Private Limited	Commercial/Business
14	2020	Integrated Digital Electronics (2020)*	Bhaktapur, Nepal Kathmandu, Nepal	Local	NEC	NEC	Engineering Adda / DroNepal	Commercial/Business
15	2020	Integrated Digital Electronics (2020)*	Bhaktapur, Nepal Kathmandu, Nepal	Local	NEC	NEC	Real Time Solutions Private Limited	Commercial/Business
16	2020	Integrated Digital Electronics (2020)*	Bhaktapur, Nepal Kathmandu, Nepal	Local	NEC	NEC	National Innovation Center	INGO
17	2020	Integrated Digital Electronics (2020)*	Bhaktapur, Nepal Kathmandu, Nepal	Local	NEC	NEC	Home Automation Nepal	Commercial/Business
18	2020	Integrated Digital Electronics (2020)*	Bhaktapur, Nepal Kathmandu, Nepal	Local	NEC	NEC	Yasaa Technology	Commercial/Business
19	2020	Technological Assistance to Visually Impaired Group Final Year Project I and Project II (2019 - 2020)*	Lalitpur, Nepal Kirtipur, Nepal	Local	SEC	SEC	Department of Electronics and Computer Engineering, SEC Laboratory Secondary School	Academic Department/HEI School
20	2020	Traffic congestion in Kathmandu valley (2019-2020)*	Kathmandu, Nepal	Local	SEC	SEC	Department of Civil Engineering, SEC	Academic Department/HEI
21	2020	Traffic Scenario at Tripureshwar (2019-2020)*	Kathmandu, Nepal	Local	SEC	SEC	Department of Electronics and Computer Engineering, SEC	Academic Department/HEI
22	2020	Status of soil and crops in present context of agriculture (2019-2020)*	Kathmandu, Nepal	Local	SEC	SEC	Department of Electronics and Computer Engineering, SEC	Academic Department/HEI
23	2020	Present Context of Canteen at Sagamatha Engineering College (2019-2020)*	Lalitpur, Nepal	Local	SEC	SEC	Department of Electronics and Computer Engineering, SEC	Academic Department/HEI
24	2020	Solar Powered Street Lighting System with Optimum use of Battery Capacity and Monitoring System (2019-2020)*	Dhulikhel, Nepal	Local	KU	KU	Department of Electrical and Electronic Engineering, KU	Academic Department/HEI
25	2020	Elevator Based Car Parking System (2019-2020)*	Dhulikhel, Nepal	Local	KU	KU	Department of Electrical and Electronic Engineering, KU	Academic Department/HEI
26	2021	Culture based Theme Banquet - Sanskriti Banquet (EDP) (2021)*	Lalitpur, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
27	2021	Sport Based Restaurant and Bar - View Box (EDP) (2021)*	Lalitpur, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
28	2021	Fast Food Restaurant in the structure of an Airplane - Air'isa (EDP) (2021)*	Lalitpur, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
29	2021	Kpop Music and Korean Culture Theme Restaurant - Café Som (EDP) (2021)*	Lalitpur, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
30	2021	Arabic Restaurant in glass structure - Glass Ryatu (EDP) (2021)*	Bhaisiabi, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
31	2021	An Aqua based Theme Restaurant for tourism promotion - JALAYA 'The Sea Food Restaurant' (EDP) (2021)*	Bhaktapur, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
32	2021	Restaurant with Tharu Food Specialization - The Fusion Restaurant (EDP) (2021)*	Lalitpur, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
33	2021	Promotion of Tourism in the Jungle of Thankot - Than-Da Buniungle (EDP) (2021)*	Thankot, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
34	2020-2021	Study on Implementation of Sustainable Land-filling Approaches in Bhutan: A Case Study on Municipal Controlled Landfill in Samdrup Jongkhar	Samdrup Jongkhar, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
35	2020-2021	Feasibility study and design of irrigation canal for Banglsho chiwoog using Kennedy's and Lacey's design approach	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
36	2020-2021	Rainfall Runoff relation and flow trend in Kulunchu & Punatshangchu basin	Wangdue and Mongar, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
37	2020-2021	Study and analysis of labor issues in Bhuttese Construction Industry (Case study in S/Jongkhar)	Samdrup Jongkhar, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
38	2020-2021	Study and analysis of bamboo for feasibility as a sustainable building material in Bhutan	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
39	2020-2021	Case study on pothole repairment using solcrete and stabilizing agents	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
40	2020-2021	Investigation on project delays using Microsoft Project- A case study on Hospital construction at dewathang	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
41	2020-2021	Study and analyze the causes of cracking in structures and to provide preventive techniques to mitigate cracking	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
42	2020-2021	Roof rainwater harvesting from old dining halls	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
43	2020-2021	Environmental-friendly and sustainable landscaping of self-catering hostel area	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
44	2020-2021	Pico hydropower plant	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
45	2020-2021	Interfacing fault demonstrator with PC and analyse line faults	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
46	2020-2021	Comparative study of plate earthing with different moisturing agent	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI

47	2020-2021	Active solar water heater in JNEC student mess	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
48	2020-2021	Electrical fault analysis of three phase induction motor.	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
49	2020-2021	Repair and fabrication of AC to DC converters machine	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
50	2020-2021	Remote control of three phase induction motor.	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
51	2020-2021	IoT based Garbage Monitoring System	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
52	2020-2021	Foot-Step Generation of Electricity using Piezoelectric Sensor	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
53	2020-2021	Design and Simulation of IoT and Zigbee based Smart Lighting System	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
54	2020-2021	Smart Farm Management System, an IoT for Sustainable Farming	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
55	2020-2021	Online Inventory System	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
56	2020-2021	Online JNEC Guest House Reservation	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
57	2020-2021	JNEC Promotional Video(Animation)	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
58	2020-2021	Case Study on JNEC Campus Network and enhancement	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
59	2020-2021	JNEC Facilities booking	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
60	2020-2021	Credit Information System	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
61	2020-2021	Students Reporting and Registration System	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
62	2020-2021	e-Waste Management in Samdrup Jongkhar Thromdee	Samdrup Jongkhar, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
63	2020-2021	Self Help for Better Life	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
64	2020-2021	IoT Based Garbage Monitoring System	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
65	2020-2021	Natural disaster management plan of JNEC campus using GIS	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
66	2020-2021	An assessment on digital elevation model (DEM) in generating slope map and suitability analysis of built – up areas extension in Dewathang gewog	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
67	2020-2021	landslide hazard zonation mapping of Dewathang, SamdrupJongkhar road.	Samdrup Jongkhar, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
68	2020-2021	Optimal route analysis for laying out underground cable in JNEC Campus	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
69	2020-2021	Application of Photogrammetry in mapping from Stereo Imagery	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
70	2020-2021	Power Flow Adjustment Planning for Generation Outages in Western Grid of Bhutan	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
71	2020-2021	Reliability Analysis of Power Transmission and Distribution Network: A Case Study in Eastern Grid of Bhutan	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
72	2020-2021	Enhancement of Voltage Stability in Power System using Genetic Algorithm	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
73	2020-2021	Improvement of Transient Stability of Power System using Fuzzy Logic Controller	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
74	2020-2021	The Impact of interconnecting microgrid in Eastern Grid: A case study	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
75	2020-2021	Intelligent Techniques for Transmission Line Fault Protection	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
76	2021	Designing of Efficient Lighting System Integrated with Natural Lighting for JNEC MPH	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
77	2021	Feasibility Study of HVDC Transmission System in Bhutan	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
78	2021	Study of Converter for Maximum Power Point Tracking (MPPT) in PV System	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
79	2021	Designing and Simulation of Efficient Footpath Lighting: A Case Study in JNEC	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
80	2021	High Penetration of Solar PV on Power System Planning	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
81	2021	Power Loss Reduction & Reliability Improvement in Solar PV System: A Case Study in Academic Block	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
82	2020	Smart and Intelligent Power Management System for JNEC	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
83	2020	Peer to Peer (P2P) Energy Trading in Microgrid	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
84	2020	Design and Improvement of Illumination: A Case Study in Student's Residential, Kitchens & Dining Hall of JNEC	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
85	2020	Reliability Analysis of 11 kV Power Distribution System (Nyelang Substation)	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
86	2020	Designing and Estimation of Artificial Lighting System in Football Field	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
87	2020	Designing of Efficient Automatic Control of Street Lighting at JNEC	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
88	2020	Demand Side Management of JNEC load	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/HEI
89	2022	Flood modelling of Dungsom Chhu at Samdrup Jongkhar Thromde	Samdrup Jongkhar, Bhutan Kathmandu, Nepal Pokhara, Nepal Espoo, Finland	Mixed International	Aalto, JNEC, SEC, NEC	JNEC, Aalto	Samdrup Jongkhar Municipality Samdrup Jongkhar Thromde Community Department of Civil Engineering, SEC Department of Civil Engineering, NEC	Local government Community Academic Department/HEI
90	2022	Popularization and service management of earthquake resistant building standards in Nepal	Kathmandu, Nepal Espoo, Finland	Mixed International	Aalto, SEC	Aalto, SEC	Department of Civil Engineering, SEC	Academic Department/HEI
91	2022	Analysis of Aquarium Based Restaurant in Nepal - The Royal Booze-aquarium	Lalitpur, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
92	2022	Feasibility Study on First Drive thru Restaurant in Nepal - SAP Drive-Thru	Budhanikatha, Lalitpur, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
93	2022	Water Tourism at Kulekhan reservoir - The White Duckling	Markhu, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
94	2022	The Benefits of Converting Vintage Buildings into Resort - Plenty of Twenties	Lakhrubhanyang, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
95	2022	A Fascinating Glass Tree House with a Glass Restaurant - The Tranquil	Chapakhara, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
96	2022	Utilization of hot springs as a sustainable energy source for a hot spring resort - Study on the Paradise	Sundarjal, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
97	2022	A case study on a restaurant in ferris wheel - Team Phoenix	Dhulikhel, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
98	2022	The challenges of a tree house restaurant in the forest of Nepal - Aasha: The Trust	Chapal Height, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
99	2022	Potentiality of a cave restaurant business in Nepal - The ODAR Resort	Budhanikatha, Lalitpur, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
100	2022	Evolution of Ideas- Dining in the Sky - The Stronglies	Nagaokot, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
101	2022	Farm stay experience on a terraced hillside of Chandragiri - Daisy Farm House	Hinchuli, Nepal	Local	AITM	AITM	School of Hotel Management, AITM	Academic Department/HEI
102	2022	Lack of customers at Patlekhel Community Homestays	Delft, The Netherlands Lalitpur, Nepal Kavre, Nepal	Mixed International	AITM, TU Delft	AITM, TU Delft	Patlekhel Community Homestay, Kavrepalanchowk	Commercial/Business
103	2022	NEPALI HANDWRITTEN TEXT RECOGNITION	Lalitpur, Nepal	Local	SEC	SEC	Department of Computer and Electronics Engineering, SEC	Academic Department/HEI
104	2022	NEPALI SPEECH RECOGNITION	Lalitpur, Nepal	Local	SEC	SEC	Department of Computer and Electronics Engineering, SEC	Academic Department/HEI
105	2022	OCR AND TTS FOR BLIND PEOPLE	Lalitpur, Nepal	Local	SEC	SEC	Department of Computer and Electronics Engineering, SEC	Academic Department/HEI
106	2022	LIBRARY MANAGEMENT SYSTEM	Lalitpur, Nepal	Local	SEC	SEC	Department of Computer and Electronics Engineering, SEC	Academic Department/HEI
107	2022	NEPALI VOICE CONTROLLED HOME AUTOMATION	Lalitpur, Nepal	Local	SEC	SEC	Department of Computer and Electronics Engineering, SEC	Academic Department/HEI
108	2022	IMAGE COLORIZATION USING CONVOLUTIONAL NEURAL NETWORK	Lalitpur, Nepal	Local	SEC	SEC	Department of Computer and Electronics Engineering, SEC	Academic Department/HEI
109	2022	SENTIMENT ANALYSIS OF CELEBRITIES TWEETS	Lalitpur, Nepal	Local	SEC	SEC	Department of Computer and Electronics Engineering, SEC	Academic Department/HEI
110	2022	SALARY BOOK	Lalitpur, Nepal	Local	SEC	SEC	Department of Computer and Electronics Engineering, SEC	Academic Department/HEI
111	2022	Black start restoration plan of eastern grid of Bhutan , optimal sizing and placement of distribution generation in distribution network of Eastern grid	Samdrup Jonkhar, Bhutan	Local	JNEC	JNEC	Bhutan Power cooperation	Commercial/Business
112	2022	Status review and prospect analysis of lighting at heritage sites in Nepal	Lumbini, Patan	Local	KU	KU	Department of Electrical and Electronics Engineering, KU Department of Mechanical Engineering, KU Local administration and community	Academic Department/HEI Local government Community
113	2022	Status review of lighting condition and effect of light trespass in urban tourist destinations	Bandipur, Pokhara	Local	KU	KU	Department of Electrical and Electronics Engineering, KU Department of Mechanical Engineering, KU Local administration and community	Academic Department/HEI Local government Community
114	2022	Analysing the status and effect of light pollution and sky glow at National park and wildlife reserve of Nepal	Sauraha, Koshi Tappu	Local	KU	KU	Department of Electrical and Electronics Engineering, KU Department of Mechanical Engineering, KU Local administration and community	Academic Department/HEI Local government Community

115	2022	STUDY OF NEIGHBOURHOOD NOISE IN RESIDENTIAL AND INDUSTRIAL AREA	Bandipur, Pokhara	Local	KU	KU	Department of Electrical and Electronics Engineering, KU Department of Mechanical Engineering, KU Local administration and community	Academic Department/H/EI Local government Community
116	2022	STUDY OF THE IMPACT OF ACOUSTIC NOISE ON WILD SPECIES IN THE NATIONAL PARK AREA	Sauraha, Koshi Tappu	Local	KU	KU	Department of Electrical and Electronics Engineering, KU Department of Mechanical Engineering, KU Local administration and community	Academic Department/H/EI Local government Community
117	2022	Behavioural Change Monitoring of Autistic children	Bhaktapur, Nepal	Local	NEC	NEC	Department of Electronics & Communication Engineering, NEC	Academic Department/H/EI
118	2022	IoT based smart Hydroponics System	Bhaktapur, Nepal	Local	NEC	NEC	Department of Electronics & Communication Engineering, NEC Local farmers	Academic Department/H/EI Business/Commercial
119	2022	IoT based fertilizer doser system	Bhaktapur, Nepal	Local	NEC	NEC	Department of Electronics & Communication Engineering, NEC Local farmers Fertilizer sellers	Academic Department/H/EI Business/Commercial
120	2022	Mushroom Disease detection using CNN	Bhaktapur, Nepal Bhaktapur, Nepal	Local	NEC	NEC	Department of Electronics & Communication Engineering, NEC Local farmers Agriculture Experts	Academic Department/H/EI Business/Commercial Experts
121	2022	Fatigue in Construction Workers	Mumbai, India	Mixed International	IITB, NEC	IITB, NEC	Department of Civil Engineering, IITB Department of Civil Engineering, NEC	Academic Department/H/EI
122	2022	Safety in Construction Workers	Mumbai, India	Mixed International	IITB, NEC	IITB, NEC	Department of Civil Engineering, IITB Department of Civil Engineering, NEC	Academic Department/H/EI
123	2022	Sustainable Supply Chain Management	Mumbai, India	Mixed International	IITB, NEC	IITB, NEC	Department of Civil Engineering, IITB Department of Civil Engineering, NEC	Academic Department/H/EI
124	2022	Smart Fire Alarm System	Lalitpur, Nepal	Local	AITM	AITM	Department of IT, AITM	Academic Department/H/EI
125	2022	Smart Agriculture	Lalitpur, Nepal	Local	AITM	AITM	Department of IT, AITM	Academic Department/H/EI
126	2022	Smart Bicycle	Lalitpur, Nepal	Local	AITM	AITM	Department of IT, AITM	Academic Department/H/EI
127	2022	Smart Home System	Lalitpur, Nepal	Local	AITM	AITM	Department of IT, AITM	Academic Department/H/EI
128	2022	Smart Renewable Irrigation System	Lalitpur, Nepal	Local	AITM	AITM	Department of IT, AITM	Academic Department/H/EI
129	2022	Smart Waste Segregating Dustbin	Lalitpur, Nepal	Local	AITM	AITM	Department of IT, AITM	Academic Department/H/EI
130	2022	Preserving adobe architecture in Bhaktapur and Panauti	Bhaktapur, Nepal Panauti, Nepal	Mixed International	KTU, NEC, JNEC, TU Delft, KU	KTU, NEC	Department of Civil Engineering, NEC	Academic Department/H/EI
131	2022	Construction Practices in Building Operations in Bhutan	Samdrup Jongkhar, Bhutan Mumbai, India	Mixed International	IITB, JNEC	IITB, JNEC	Department of Civil Engineering and Surveying, JNEC, RUB Department of Civil Engineering, IITB	Academic Department/H/EI
132	2022	Waste Management in Construction sites in Bhutan	Samdrup Jongkhar, Bhutan Mumbai, India	Mixed International	IITB, JNEC	IITB, JNEC	Department of Civil Engineering and Surveying, JNEC, RUB Department of Civil Engineering, IITB	Academic Department/H/EI
133	2022	Earthquake evacuation map of JNEC with GIS approach using network analysis	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/H/EI
134	2022	Tiger habitat suitability modeling in Bhutan using Index of Entropy technique	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/H/EI
135	2022	Identification areas for crop Cultivation In Bhutan	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/H/EI
136	2022	Urban planning using integrated CA-markov model	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/H/EI
137	2022	Mine Subsidence Mapping of Thangzor Area Using Sentinel 1 Data	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/H/EI
138	2022	Mapping groundwater potential zone using GIS and RS	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/H/EI
139	2022	Wildlife susceptibility mapping in western districts of Bhutan using GIS and remote sensing data	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Civil Engineering and Surveying, JNEC, RUB	Academic Department/H/EI
140	2022	Optimizing design of fin using simulation and analysis in solid work and developing an appropriate design index	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Mechanical Engineering, JNEC, RUB	Academic Department/H/EI
141	2022	Designing of an automated greenhouse snow melting system in Bhutan	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Mechanical Engineering, JNEC, RUB	Academic Department/H/EI
142	2022	A study of likely solutions to the barrier and challenges of electric Vehicles in Bhutan	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Mechanical Engineering, JNEC, RUB	Academic Department/H/EI
143	2022	A simulation based study on performance of a Turbocharged Diesel Engine Vehicle compared to Normal Aspirated Diesel Engine Vehicle	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Mechanical Engineering, JNEC, RUB	Academic Department/H/EI
144	2022	Feasibility study of cold storage system in JNEC mess	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Mechanical Engineering, JNEC, RUB	Academic Department/H/EI
145	2022	Impact of climate change on hydropower generation in Bhutan	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Mechanical Engineering, JNEC, RUB	Academic Department/H/EI
146	2022	Development of an improved and efficient Automobile Workshop Layout in JNEC	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Mechanical Engineering, JNEC, RUB	Academic Department/H/EI
147	2022	Reliability analysis of 11KV feeder of Dewathang	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Mechanical Engineering, JNEC, RUB	Academic Department/H/EI
148	2022	Automatic Corridor Light Control System Using PIR Sensor and Arduino UNO	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Electrical Engineering, JNEC, RUB	Academic Department/H/EI
149	2022	Automatic street light system using moving objects detection	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Mechanical Engineering, JNEC, RUB	Academic Department/H/EI
150	2022	Study of Electrical Distribution System of JNEC	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Electrical Engineering, JNEC, RUB	Academic Department/H/EI
151	2022	Increasing solar output using solar tracker and MPPT technique (Incremental conductance)	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Mechanical Engineering, JNEC, RUB	Academic Department/H/EI
152	2022	Simulation of model predictive controller (MPC) based oscillatory water pumping system	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Electrical Engineering, JNEC, RUB	Academic Department/H/EI
153	2022	Design and cost estimation of electric fence at Thangzor (JNEC)	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Mechanical Engineering, JNEC, RUB	Academic Department/H/EI
154	2022	Variable Regulated power supply in JNEC	Dewathang, Bhutan	Local	JNEC, RUB	JNEC, RUB	Department of Electrical Engineering, JNEC, RUB	Academic Department/H/EI

\* Implementation impacted by COVID19



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### South Asia

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	TOTAL	AITM	NEC	SEC	KU	JNEC	IITB	IISc	TU Delft	Aalto	KTU
<b>local cases</b>	<b>135</b>	27	10	13	7	78					
<b>mixed international cases</b>	<b>19</b>	7	9	8	4	12	10	5	7	11	6