

### List of Senior Design Projects (SDPs) for 2K17 Session

Sr No.	Project Title (Tentative)	Supervisor	Area of Specialization	Students Name	Roll No.
1	Simulation and development of prototype for fault detection and location in three phase transmission line	Dr. Aftab Ahmed	Power	Umer Sultan (03026226779) Abdul Rafay Khawaja Amir Ali Saddamullah	17-EE-91 17-EE-40 17-EE-133 17-EE-136
2	Simulation and implementation of IOT based solar MPTT and Grid hybrid system			Mohsin Ali Khan (0334-5934655) Hammad Ahmed Muhammad usama tariq Suffian Zaman	17-EE-85 17-EE-37 17-EE-106 17-EE-124
3	Development of prototye model for power monitoring and pilferage of electricity system using IOT.		Power	Mohsin Hafeez (03086006358) Jabbar Ahmed Abdul Rehman	17-EE-43 17-EE-04 17-EE-19
4	Automatic filling and capping of bottles using PLC		Power	Imdad Hussain(03315283614) Muhammad Wasif Nisar Shammas Ahmed Gul Fahad Tanveer	17-EE-142 17-EE-145 17-EE-130 17-EE-64
5	Smart Water Supply system using PLC	Dr. Inam Ul Hassan Sheikh	Control	Syed M. Abdullah Hashmi(0331-5229812) Adnan Ghulam Miran Ali Murtaza Abdul Rab	17-EE-117 17-EE-21 17-EE-102 17-EE-129
6	Industrial Monitoring System Using PLC		Control	Usama Iftikhar(0312-5031085) Rana Abdullah Saleem Huzaiifa Abbas Sardar Rehan Ahmed	17-EE-60 17-EE-63 17-EE-12 17-EE-105
7	Dual Axis Solar with IOT Based solar Energy Monitoring		Control	Moeez Ashfaq(03414184863) Malik Hamza Attique Muhammad Zeeshan	17-EE-61 17-EE-112 17-EE-103
8	IoT based monitoring and controlling of three phase induction motor using SCADA		Control	Hafiz Muhammad Saad Anwar(03116486649) Hafsa Tahir Sidra Usman Noman Ahmed	17-EE-82 17-EE-79 17-EE-67 17-EE-94
9	Automation of car wash system using PLC		Control	Faizan Naveed(0331-9226899) Nouman Asghar Nauman Shaukat Muhammad Huzaiifa	17-EE-57 17-EE-18 17-EE-39 17-EE-51
10	Design and Implementation of IoT based Smart Agriculture System	Dr. Intisar Ali Sajjad	Control	Umair Shabbir Abdul Manan (03326366964) Sheraz Hussain Ahmed Arif	17-EE-14 17-EE-29 17-EE-83 17-EE-92
11	IOT based flood monitoring and alerting system		Control	Qudsia Ashiq (03305562056) Tehreem Fatima Aimen Habib Khadija Amin	17-EE-05 17-EE-11 17-EE-17 17-EE-95
12	IOT based energy management in smart building		Control	Soharb Abdullah(0349-4720538) Hussnain Yousaf Muhammad waseem Muhammad Awais Khan	17-EE-07 17-EE-22 17-EE-55 17-EE-109
13	IOT based smart grid station	Dr. Munira Batool	Power	Chaman Nawaz(0341-1432269) Ahmar ul Haq Waqas Shahzad Abdul samad	17-EE-34 17-EE-31 17-EE-100 16-EE-15
14	Solar panels cleaning system using iot		Power	Ghazanfar Ali Haider(03333208988) Hira Khan Faisal Haroon Iqra Maqsood	17-EE-09 17-EE-48 17-EE-49 17-EE-125
15	Design of D-STATCOM for voltage regulation in microgrids		Power	Aneel Ahmed(0348-5579489) Awais Aslam Muhammad Ibrahim Sadiq Muhammad Haris	17-EE-141 17-EE-47 17-EE-96 17-EE-99
16	Design and Fabrication of wall climbing robot electro-adhesive pad	Dr. Ahsan	Mechatronics, High Voltage	Muhammad Abdullah Berum (03315285716) Muhammad Jahanzaib Munawar Chaudhary Kamran Ahmed Habib ur Rahman	17-EE-32 17-EE-59 17-EE-77 17-EE-128
17	HLA Testing and matching using digital Techniques	Dr. Junaid Mir	Communication	Abdul Hannan (03365213339) Muhammad Danish Rifsha Ejaz Alveen Zainab	17-EE-73 17-EE-15 17-EE-01 17-EE-33

18	Smart Water Irrigation system using Iot	Dr Gulistan Raja	Control	Moiz Mughal(0302-4328496) Muhammad Bilal Sarwar Abdullah Akmal	17-EE-45 17-EE-71 17-EE-84
19	IOT based monitoring & protection of AC distribution system	Dr. Engr. M. Faisal Nadeem Khan	Power	Amna Bibi Shahzaib Shafique Syed Muhammad Baqir Raza Soban Tahir (03369464189)	17-EE-02 17-EE-44 17-EE-101 17-EE-119
20	Deep convNets in ophthalmology: A retinal features-based approach for automated eye cancer identification	Engr Hammad Haider	Control	Abdullah Sajid(0304-1015170) Rimsha Saeed Muhammad Usama	17-EE-24 17-EE-06 17-EE-72
21	Automated Vehicle		Control	Syed Tariq Naqshbandi(0335-6669918) Arbaz Ali Muhammad Ahmed Fahad Zulfqar	17-EE-138 17-EE-27 17-EE-70 17-EE-135
22	Electrical load modeling for generation, expansion and planning of Pakistan power system	Engr. Faisal Siddique & Engr. Mansoor Ashraf	Power	Hafiz Ali Ashraf Talha Nawaz Muhammad Awais Aashir Ajjaz(03347697045)	17-EE-68 17-EE-98 17-EE-107 17-EE-116
23	Harmonics Estimation of Real Time Electrical Signal	Engr. Mansoor Ashraf	Power	Zawar Khan(0316-2291447) Muhammad Abdullah Muhammad Kashif Karim Muhammad Saeed Ahmad	17-EE-121 17-EE-25 17-EE-76 17-EE-88
24	Power line communication for controlled load operation at domestic level	Engr. Hammad Shaukat	Power Electronics	Nimra Shaheen Sawaira Sadia Idrees(03145366486) Nimra Saif Kinza Zaheer	17-EE-08 17-EE-50 17-EE-62 17-EE-104
25	Design and implementation of battery tester.		Power Electronics	Farah Ilyas(0316-5990120) Tehniyat Siddique Farhan Qureshi Taimoor Hassan	17-EE-52 17-EE-118 17-EE-28 17-EE-46
26	Design and Implementation of Solid State Circuit Breaker and its IoT integration.		Power Electronics	Anoosha Rani(0336-5725233) Hania Rehman Sana Munawar Fatima Naveed	17-EE-69 17-EE-03 17-EE-66 17-EE-36
27	Smart Solar Hybrid Inverter	Engr. Ilyas Ahmed	Power	Muhammad Haseeb Raza(0334-76044704) Ali Hamza Muhammad Umer Sajjad Shahzaib	17-EE-81 17-EE-108 17-EE-111 17-EE-123
28	GSM based smart energy meter		power	Muhammad Aqib(0333-7437979) Muhammad Haroon Muhammad Tanzeel Hassan Haider ali	17-EE-87 17-EE-42 17-EE-90 17-EE-78
29	Identification and location of fault on transmission line		Power	Kifayat Shah Sadaqat Hussain Mudassir Zafar	17-EE-144 17-EE-148 16R/17-EE-36
30	Design and Fabrication of an intelligent load management system	Engr Usama Ashfaq	Power,	Salman Khan(03003906722) Ahsan Latif Farwa Syed Tehzeeb un Nisa	17-EE-127 17-EE-10 17-EE-97 17-EE-139
31	Microcontroller based substation monitoring and control system with GSM modem (tentative)		Power Electronics	Muhammad Ammad Ali Roohullah Jan(03359070953) Muhammad Wisal Jan Muhammad Bilal Raza	17-EE-56 17-EE-122 17-EE-146 17-EE-75
32	Efficient ON Grid Hybrid Power Management System using Solar and wind energy	Engr Nouman Qamar	Power	Sheikh Muhammad Bilal Sohail(03335257510) Haseeb Ahmed Khawar awan Muhammad Laeeque Ali	17-EE-110 17-EE-74 17-EE-65 17-EE-38
33	Load Distribution, Monitoring and control on transformer using IoT		Power, Control	Abdul Basit (03005504561) Nadeem Abbas Taha Bin Zafar Abdullah Malik	17-EE-20 17-EE-26 17-EE-80 17-EE-113
34	IOT based monitoring and protection of distribution transformer		Power, Control	Muhammad Faisal Gill Abdul Qadeer (03037321674) Hafiz Muhammad Usman Abdul Majid Shah	17-EE-23 17-EE-35 17-EE-41 17-EE-131