List of Final Year Projects

Department of Computer Systems Engineering UET Peshawar

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All 7th semester students are advised to select their FYP from the list of ideas presented below

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Come up with their own ideas (subject to the supervisor approval) latest by 2nd week of their 7th semester.

S. No	FYP Title	Supervisor	Advisor
1	Implementation of Routing Protocol for Mobile Ad-hoc Communication	Engr. Ihsan Ul Haq	--
2	Intelligent Obstacle Avoiding Robot	Engr. Ihsan Ul Haq	--
3	Traffic Engineering: Dynamic Load Balancing on Communication Links in IP Networks	Engr. Ihsan Ul Haq	--
4	Distributed Image Analysis/Machine Learning Using Hadoop MapReduce	Engr. Sumayya	--
5	Distributed Video Processing Using Hadoop MapReduce	Engr. Sumayya	--
6	A programmable hearing aid with digital signal processing and user adaptability.	Dr. Arbab Masood Ahmad	--
7	Eye ball movement analysis using Electro-occulogram (EOG) signals and exploring its applications.	Dr. Arbab Masood Ahmad	--
8	Electromyography (EMG) signal sensing; and recognition system design using computational intelligence.	Dr. Arbab Masood Ahmad	--
9	Design and Implementation of an analog artificial neural network.	Dr. Arbab Masood Ahmad	--
10	Visualizing the intensity of suicide bombing and drone attacks in Pakistan using a set of alternative visual representation in a linked view environment	Engr. Rehmat Ullah	--
11	Usability evaluation of travel time maps	Engr. Rehmat Ullah	--
12	Robots playing soccer	Dr. Salman Ahmed	--
13	Secure communication using visible light	Dr. Salman Ahmed	--

14	Control systems for a home boiler	Dr. Salman Ahmed	--
15	Using a database to build web pages for marketing or to unveil hidden trends in the internet using python, boostrap and gith-hub --- just like amazon and eBay. This can be applied to other social networking challenges in today's market	Dr. Abdul Hafeez	--
16	GPU-accelerated cancer detection --- expertise in filtering (signal processing) and basic GPU programming.	Dr. Abdul Hafeez	--
17	Develop an image based benchmarks for raspberry pie and state-of-the-art processors	Dr. Abdul Hafeez	--
18	Brain tumor segmentation	Engr. Muniba Ashfaq	--
19	GPU based image registration	Engr. Muniba Ashfaq	--
20	Analytical Study of Poisson Processes and Queuing Systems	Dr. Safdar Nawaz	--
21	Simulation Study of Poisson Processes and Queuing Systems	Dr. Safdar Nawaz	--
22	A GPS based system for highway traffic monitoring and management	Dr. Aftab Khan	--
23	On making the Burrows-Wheeler Compression algorithm faster	Dr. Aftab Khan	--
24	Forearm movement based remote control of a quad-copter	Dr. Aftab Khan	--
25	Adaptive fusion of multiple Convolutional Neural Networks (CNN) for object classification	Engr. Muhammad Tariq Afridi	Engr. Jebran Khan
26	Color based Traffic Signs Classification System	Engr. Muhammad Tariq Afridi	Engr. Jebran Khan
27	Precision Agriculture (Expertise: Embedded Systems)	Engr. Asif Ali Khan	--
28	Optical Character Recognition in UET online apply process (Marks reading from scanned DMCs)	Engr. Asif Ali Khan	Engr. Jebran Khan
29	E-File System	Engr. Asif Ali Khan	Engr. Shakir Ullah
30	Real Time Vehicle Tracking and Monitoring using OBD Scanner	Engr. Asif Ali Khan	--
31	Robust encoding and transmission of video stream using error correcting channel codes.	Dr. Nasru Minallah	Engr. Amaad Khalil

32	Design and development of Self-Concatenated code base video transmission system.	Dr. Nasru Minallah	Engr. Amaad Khalil
33	Remote Sensing techniques for Landcover Classification and Analysis.	Dr. Nasru Minallah	--
34	Design and Development of Scalable Video Codec (With advanced scalability features) and its performance analysis.	Dr. Nasru Minallah	Engr. Amaad Khalil
35	P2P video streaming and coding using FFMPEG, Libavcodec and Libavformate libraries.	Dr. Nasru Minallah	Engr. Amaad Khalil
36	Design and development of quadcopter based military application.	Dr. Nasru Minallah	--
37	Biometric based Medical Monitoring System with GPRS/GSM Module:	Dr. Nasru Minallah	--

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FYP Coordinator