

Type	#	Project Option	Supervisor(s)	About
Traditional Projects	1	Management	Dr. A. Elhakeem & Eng. Shahenda	
	2	Management	Dr. Ahmed Elyamany	
	3	Management	Dr. Hosam Hosny	
	4	Management	Dr. Ahmed Alhady & Eng. Shahenda	
	5	Management	Dr. Ahmed Ehab	
	6	Environmental	Dr. Mohamed Elsayaad	
	7	Environmental	Dr. Ashraf Elashaal	
	8	Steel	Dr. Adel Salem	
	9	Steel	Dr. AbdelMenam Sanad	
	10	Steel	Dr. Mostafa Yousef	
	11	RC	Dr. Mashhour Ghonem & Dr. Mohab Zahran	
	12	RC	Dr. Ebtessam Abdelaziz	
	13	RC	Dr. EzzEldin Mostafa	
	14	Materials	Dr. Hassan Ahmed	
	15	Materials	Dr. Esam Elteheawy	
	16	Geotechnical	Dr. Adel Belal	
	17	Geotechnical	Dr. Sameh AboelSoud & Dr. El-Sayad	
	18	Geotechnical	Dr. Mahmoud Kassem	
	19	Highway/Railway	Dr. Akram Soltan	
	20	Highway	Dr. AbdelZaher Mostafa	
	21	Railway	Dr. Haytham Zohny	
	22	Water	Dr. Wael Khder	
	23	Water	Dr. Abdelhameed Eltahan	
	24	Water	Dr. Nader Shafik	
	25	Coastal	Dr. Sonia Elserafy	
	26	Coastal	Dr. Yasser Elsaee	
Multi-Disciplinary Projects	27	Tunneling with Mgt. perspective	Dr. Ashraf Abo-Krasha, Dr. A. Belal & Dr. A. Elhakeem	د. اشرف ابوكراشة هو رئيس قطاع التصميمات بالهيئة القومية للانفاق
	28	Tunneling with Mgt. perspective	Dr. Ahmed Foda, Dr. A. Belal & Dr. A. Elhakeem	لواء دكتور احمد فودة هو مدير مشروع تنفيذ انفاق قناة السويس (السويس ، الاسماعيلية، بورسعيد)
	29	A Pavement Mgt. System Mgt. / Trans.	Dr. A. Elhakeem & Dr. M. Refaat	Students will develop a "Pavement Mgt. System" which is simply a priority plan (3 to 5 years) for repair and replacement of a road network under limited budgets. Students will breakdown a network into set of manageable road sections. Afterwards, students are expected to do the following tasks: (1) Evaluate the condition of these sections using proper pavement condition index methodology; (2) Develop deterioration model(s) to predict the condition of these sections along the planning horizon (3 to 5 years) considering many factors; (3) Investigate various repair options and their costs, impact on traffic and condition improvement; (4) Use the previous information to determine which sections to repair, when to repair and what kind of repair to implement; & (5) Develop a yearly detailed plan/schedule with optimized sequence of repair for the sections, respecting time constrains and available resources.
	30	Application of Automatic Toll Stations at Cairo-Alexandria Freeway CompSc., Trans. & Mgt.	Dr. Mohamed Saied & others	This project aims at studying the feasibility, cost and processes of automatic toll stations (ATS) at Cairo-Alexandria Freeway. The project consists of a multi-disciplinary team; two students from CB Department and two students from the CC Department. Even though each discipline will be accountable for their part of the work, both teams will work on the different tasks, share responsibilities, and learn the various skills needed. Tentative objectives: (1) Carryout a thorough literature review on the application and impact of ATS; (2) Determine the factors affecting the construction and application of ATS; (3) Collect actual data for traffic flow, types of vehicles, frequency of travel, etc. needed to evaluate the applicability of ATS; (4) Study the impact of ATS through computer simulations and creating various scenarios for traffic flow, and cost effectiveness of the various implementation strategies; (5) Calculate the construction and total cost of ATS, along with the benefits gained ; & (6) Disseminate the results in engineering research conferences.
	31	The use of Industrial waste in Geotechnical Applications Envi. & Geotech.	Dr. Mahmoud Kassem	The project aims at reusing of industrial waste in geotechnical applications. The project should include the following: (1) studying the different kinds of industrial wastes, its effects on environment, disposal methods, and the available quantities; (2) Choose an appropriate kind of waste then study and analyze its physical and chemical characteristics; (3) Define the disadvantages of the waste and find methods to mitigate its effects; (4) Define the advantages and try to relate it to geotechnical applications that can improve the soil performance by making use of these advantages and incorporating this kind of waste into the geotechnical application; (5) Make comparative study on how the performance improved after incorporating the industrial waste in the geotechnical application; & (6) Study the economical benefits of such application.
32	GeoEnvironmental	Dr. Sameh AboelSoud & Dr. El-Sayad		