

CEP Mapping

➤ How Knowledge Profiles (Ks) are addressed through our project:

Ks	Attribute	How Ks are addressed through the project
K3	Engineering Fundamentals	The project required an understanding of database fundamentals to formulate the model using the XAMPP Control Panel.
K5	Engineering design	ER Diagram and Schema Diagram were used to create the model.
K6	Engineering practice	Use of modern tools like XAMPP Control Panel.
K7	Comprehension	It allows tourists to choose a suitable package for traveling across the country, based on specific locations, tourist attractions, and hotels.

➤ How Complex Engineering Problems (Ps) are addressed through our project and mapping among

Ps, COs, POs:

Ps	Attribute	How Ps are addressed through the project	COs	POs
P1	Depth of knowledge required	This cannot be resolved without in-depth knowledge of engineering at the level of one or more Database fundamentals (K3), ER diagram & Schema diagram (K5), use of XAMPP Control Panel to implement SQL (K6), and lastly their impact on society (K7).	CO1 CO2 CO3 CO4 CO5	PO1 PO3 PO5 PO6 PO7 PO8
P3	Depth of analysis required	Extensive knowledge was required as the project contains some approaches that might have been done in another way, such as the ER model might only sometimes be exactly the way that was shown in the project. So in-depth analysis would help to find or collect information from the database more efficiently.	CO3 CO4 CO5	PO6 PO7 PO8
P6	Extent of stakeholder	Diverse stakeholders were involved in the project as many of them needed packages to have the best tour that could be offered and that, too, in a hurry. Moreover, some needed a package with a cheaper option while others needed it for a luxury tour.	CO6	
P7	Interdependence	The project allowed to partition the whole problem into smaller sub-problems. For example, if someone wanted to know about the hotel, the hotel table was there to serve. Likewise, if someone wanted to know about the package cost, the package table was there to serve, and so on.	CO7 CO8	PO11 PO12

➤ How Complex Engineering Activities (As) are addressed through our project and mapping

among As, COs, and POs:

As	Attribute	How As are addressed through the project	COs	POs
A1	Range of resources	<p>Diverse resources were required throughout the project. These include:</p> <ul style="list-style-type: none"> • Information: Data of all types of users, hotels, packages, transportation, etc. • Technology: XAMPP Control Panel to manage the database • Equipment: Personal Computer • People: Users, Admins. • Time 	CO8 CO9	PO11
A4	Consequences for society and environment	The project would allow the admins to control the backend information such as attractions, hotels, transportation, packages, etc. At the same time, the users can add their information in user details, booking, review, etc., and view the information about attractions, hotels, transportation, etc. as well	CO6	PO6 PO12
A5	Familiarity	The project shows the use of tourism and travels management system for every exotic location in Bangladesh.		