CEP Mapping

- How **Knowledge Profile (K's)** are addressed through our project and mapping among K's, COs, POs:

K's	Attribute	How K's are addressed through our project	CO	PO
K3	Engineering fundamentals	Our project need understanding on Database fundamental to formulate a suitable model.	CO2, CO3, CO4	PO1
K4	Specialist knowledge	Blood group related knowledge.		PO1
K5	Engineering design	We used ER diagram and Schema diagram to design our project.	CO3, CO4	PO3, PO5
K6	Engineering practice	Implemented our project in SQL Server Management Studio with the help of SQL language.	CO1, CO2, CO5	PO5
K7	Comprehension	Our project gives positive feedback on society as it will help people to get healthcare services easily and effectively.	CO6, CO7	PO6, PO7, PO8

- How **Complex Engineering Problems (P's)** are addressed through our project and mapping among P's, COs, POs:

P's	Attribute	How P's are addressed through our project	CO	PO
P1	Depth of knowledge required	Cannot be resolved without in-depth engineering knowledge at the level of one or more of Database fundamental(**K3**), Blood group related knowledge(**K4**), ER and Schema diagram(**K5**), Implementation with SQL on SQL server(**K6**), Impact on society(**K7**)	CO 1-5	PO1, PO3, PO 5-8
P3	Depth of analysis required	This work requires more study on **Integrity Constraints**. As we applied many-to-many relations where one-to-many relations can be applied. This further analysis will help us to design more suitable and efficient model that users can use to interact with doctors, find emergency services like view available hospitals with ICU and what blood groups are available in them.	CO3, CO4, CO5	PO 6-8, PO12
P6	Extent of stakeholder	Many stakeholders need doctor appointment system as they want to get an appointment to the highest rated doctor, many want accessories management system as the need to buy some emergency equipment. Our project fulfils their needs	CO6, CO7	
P7	Interdependence	According to our stakeholder's requirement we made our database's table into smaller tables hold their data.	CO8	P10, P11

		This helped us grasp the whole idea of our stakeholders and implement the idea using smaller sub-problems. Doctor's appointment schedule can be found on Appointment table, who got admitted into which hospital can be found on Admit table, all user's data can be found on user table and so on.		

- How **Complex Engineering Activities (A's)** are addressed through our project and mapping among A's, COs, POs:

A's	Attribute	How A's are addressed through our project	CO	PO
A1	Range of resources	We needed many diverse resources like **Information's:** Data of Users, Role, Doctor, Hospital, Appointment, Medical Accessories, Ambulance. **Technologies**: Computer, SQL, SQL Server. **People:** Users, Developers. **Money**	CO8	P11
A4	Consequences for society and the environment	People can now find easily where blood is available, doctor is busy or not, can buy easily, get their selves admitted in a hospital all in our project.	CO6	P6, P7
A5	Familiarity	The project deals with online health care management system based on Database for all types of users.	CO9	