

### Task 1 written work:

- The UserID is a unique identifier for users in the system.
- The combination of Code and Number uniquely identifies courses.
- The Phone attribute of the User entity is treated as a multi-valued attribute because a user can have multiple phone numbers.
- The type of unit (academic or non-academic) is distinguished by the Type attribute of the Unit entity.
- The Tutor entity is associated with colleges via the Tutor-College relationship.
- The OnCall entity is assigned to a specific tutor and initiated by a faculty member.
- The Appointment entity is scheduled by a user and can be associated with multiple courses.
- The relationships between entities are denoted with (min, max) constraints to specify minimum and maximum cardinality.

### Task 3 written work:

The relationship "HAS PHONE" would become redundant under the following conditions:

1- If there is no requirement to track which phones belong to a department, and each phone is solely assigned to employees without any association with a specific department.

In this case, the "Belongs\_To" relationship between Department and Phone would be sufficient.

2- If there is no requirement to track which employees use each phone, and each phone is exclusively associated with a department but not assigned to any employees.

In this case, the "Assigned\_To" relationship between Phone and Employee would be unnecessary.