1. **Fellowship**
   - **Attributes**: FellowshipID (PK), Name, Description, Duration, Requirements, FundingAmount, Status.
2. **Participant (Fellow)**
   - **Attributes**: FellowID (PK), Name, Email, Phone, Address, Education, Experience, FellowshipID (FK).
3. **Faculty**
   - **Attributes**: FacultyID (PK), Name, Email, DepartmentID (FK), Position, ContactInfo.
4. **Project**
   - **Attributes**: ProjectID (PK), Topic, Description, StartDate, EndDate, Status, FellowshipID (FK).
5. **Department**
   - **Attributes**: DepartmentID (PK), Name, FacultyCount, Location, HeadOfDepartmentID (FK).
6. **Funding**
   - **Attributes**: FundingID (PK), Amount, Sponsor, FellowshipID (FK), DisbursementDate, Purpose.
7. **Application**
   - **Attributes**: ApplicationID (PK), DateSubmitted, FellowID (FK), FellowshipID (FK), Status, ReviewScore.
8. **Mentorship**
   - **Attributes**: MentorshipID (PK), FellowID (FK), FacultyID (FK), StartDate, EndDate, Role, Feedback.
9. **Project_Evaluation**
   - **Attributes**: EvaluationID (PK), ProjectID (FK), FellowID (FK), Date, Score, Feedback.
10. **Schedule**
    - **Attributes**: ScheduleID (PK), EventType, Date, Time, Location, RelatedProjectID (FK), FacultyID (FK).
11. **Certification**
    - **Attributes**: CertificationID (PK), Name, IssuedDate, ExpirationDate, FellowID (FK).
12. **Award**
    - **Attributes**: AwardID (PK), Name, Description, FellowID (FK), IssuedDate, Amount.
13. **Course**
    - **Attributes**: CourseID (PK), Name, Description, Credits, DepartmentID (FK), RequiredForFellowship (Boolean).
14. **Course_Enrollment**

- - ○ **Attributes**: EnrollmentID (PK), FellowID (FK), CourseID (FK), Grade, CompletionDate.
  15. **Resource**
      - ○ **Attributes**: ResourceID (PK), Type, Description, AvailabilityStatus, AssociatedFellowshipID (FK).

Additional

- **Application**: Tracks fellow applications for fellowships, useful for managing application status, reviews, and scores.
- **Mentorship**: Helps establish formal relationships between fellows and faculty, tracking roles, feedback, and mentorship duration.
- **Project_Evaluation**: Stores evaluations for fellows' work on specific projects, with scores and feedback, giving insight into their performance.
- **Schedule**: Defines schedules for events related to fellowships, like workshops, presentations, or meetings, which could be relevant for faculty or project participants.
- **Certification**: Stores certifications awarded to fellows, helping to manage and track professional credentials.
- **Award**: Keeps records of any awards granted to fellows, including amounts, dates, and descriptions.
- **Course**: Represents any courses that might be a part of the fellowship or requirements, tying in with departments for specialization.
- **Course_Enrollment**: Tracks fellow enrollments in specific courses, grades, and completion information.
- **Resource**: Can include physical or digital resources provided to fellows, such as library access, research materials, or lab facilities.

Relationships

1. **Fellowship - Fellow (One-to-Many)**
   - ○ Each fellowship can have multiple fellows, but each fellow is associated with only one fellowship.
2. **Fellow - Faculty (Mentorship) (Many-to-Many)**
   - ○ A fellow may have multiple mentors (faculty), and each faculty member can mentor multiple fellows. This is implemented using a `Mentorship` entity, which records details of the mentorship.
3. **Department - Faculty (One-to-Many)**
   - ○ Each department can have multiple faculty members, but each faculty member belongs to only one department.
4. **Department - Course (One-to-Many)**
   - ○ Each department can offer multiple courses, but each course is associated with a single department.

5. **Fellow - Application - Fellowship (Many-to-Many, through Application)**
   ○ Each fellow can apply to multiple fellowships, and each fellowship can have multiple applicants. This is managed through the `Application` entity.
6. **Project - Fellow (Many-to-Many, through Project_Evaluation)**
   ○ A project can involve multiple fellows, and each fellow may work on multiple projects. `Project_Evaluation` serves as an associative entity here, storing evaluations related to each fellow's work on a project.
7. **Fellow - Award (One-to-Many)**
   ○ Each fellow may receive multiple awards, but each award is associated with a single fellow.
8. **Fellow - Certification (One-to-Many)**
   ○ A fellow may hold multiple certifications, and each certification is specific to a single fellow.
9. **Course - Fellow (Many-to-Many, through Course_Enrollment)**
   ○ Fellows may enroll in multiple courses, and each course may have multiple fellows. This is implemented using the `Course_Enrollment` entity, which also tracks the grade and completion date.
10. **Fellowship - Funding (One-to-One)**
    ○ Each fellowship has one unique funding record, detailing the amount, sponsor, and purpose of the funding.
11. **Schedule - Faculty and Project (Ternary Relationship)**
    ○ Events on the schedule may involve a specific faculty member, a project, or a combination of both. This can be represented as a ternary relationship or by using `Schedule` as an entity that connects `Faculty` and `Project` where applicable.
12. **Project - Faculty (One-to-Many)**
    ○ Each project is supervised by a single faculty member, but each faculty member can supervise multiple projects.
13. **Resource - Fellowship (One-to-Many)**
    ○ Each fellowship may have multiple associated resources, but each resource is associated with only one fellowship.
14. **Funding - Sponsor (One-to-Many)**
    ○ Each sponsor may fund multiple fellowships, but each funding record is linked to a specific fellowship. This relationship could be directly tied if `Sponsor` becomes its own entity or remain as an attribute within `Funding`.
15. **Fellowship - Schedule (One-to-Many)**
    ○ Each fellowship might have multiple scheduled events (workshops, deadlines, etc.), but each schedule entry is specific to one fellowship.