```java
1    import java.io.Serializable;
2    import java.time.*;
3    import java.util.ArrayList;
4
5    public class CourseOffering implements Serializable
6    {
7        private Lecture lecture;
8        private ArrayList<Tutorial> tutorials;
9        private int expectedStNum;
10       private Course course;
11       private int year;
12       private int semester;
13
14       public CourseOffering(int expectedStNum, int year, int sem)
15       {
16           this.expectedStNum = expectedStNum;
17           this.year = year;
18           this.semester = sem;
19           lecture = null;
20           tutorials = new ArrayList<Tutorial>();
21       }
22
23       public void addLecture(DayOfWeek lecDay, LocalTime lecStartTime,
24               int lecDur, Venue venue) throws ClashException, PreExistException,
25               LessonTimeOutOfBoundsException, UnsuitableVenueException
26       {
27           if(lecture != null)
28           {
29               throw new PreExistException("Lecuture already exists");
30           }
31
32           if(venue.getPurpose() != Venue.Purpose.LECTURE)
33           {
34               throw new UnsuitableVenueException("Venue not suitable for a "
35                       + "lecture");
36           }
37
38           // May throw clash exception
39           lecture = new Lecture(lecDay, lecStartTime, lecDur, venue, this);
40       }
41
42       public Tutorial addTutorial(DayOfWeek tutDay, LocalTime tutStartTime,
43               int tutDur, Venue venue) throws ClashException,
44               LessonTimeOutOfBoundsException, UnsuitableVenueException
45       {
46           if(venue.getPurpose() != Venue.Purpose.TUTELAB)
47           {
48               throw new UnsuitableVenueException("Venue not suitable for a "
49                       + "tutorial");
50           }
51
52           // May throw clash exception
53           Tutorial tutorial = new Tutorial(tutDay, tutStartTime, tutDur, venue,
54                   this);
55
56           tutorials.add(tutorial);
57
```

```java
58              return tutorial;
59          }
60
61      public Lecture getLecture()
62      {
63              return lecture;
64      }
65
66      public ArrayList<Tutorial> getTutorials()
67      {
68              return tutorials;
69      }
70
71      public void setCourse(Course course)
72      {
73              this.course = course;
74      }
75
76      public Course getCourse()
77      {
78              return course;
79      }
80
81      public String toString()
82      {
83              String s = "";
84              if(course != null)
85              {
86                  s += "ID: " + course.getID();
87                  s += "\nName: " + course.getName();
88              }
89              s += "\nYear: " + year + ", Semester: " + semester;
90              s += "\nExpected student number: " + expectedStNum;
91              if(lecture != null)
92              {
93                  s += "\n" + lecture.toString();
94              }
95              return s;
96      }
97  }
98
```