

**ITM (SLS) Baroda University**  
**School of Computer Science, Engineering and Technology**  
**Syllabus**  
**Semester 2**

**Course Name: Programming in Python-II**

**Course Code: C22X0C4**

**Course Type: Core**

**Lab Experiments: Unit 4 - Pickle Module**

- 1) Your recipe uses some ingredients. Write a program to store the list of ingredients in a binary file.
- 2) Considering the following definition of dictionary *MULTIPLEX*, write a method in python to search and display all the contents in a pickled file *CINEMA.DAT*, where *MTYPE* key of the dictionary is matching with the value '*Comedy*'.  
*MULTIPLEX* = {'MNO':\_\_\_\_, 'MNAME': \_\_\_\_\_, 'MTYPE': \_\_\_\_\_}
- 3) A binary file 'STUDENT.DAT' has structure (adm\_no, name, percentage). Write a function countrec() in Python that would read contents of the file "STUDENT.DAT" and display the details of those students whose percentage is above 75. Also display number of students scoring above 75%.
- 4) Write a program to increase the salary by Rs. 2000/- of employee having empno as 1251 in the file empl.itm
- 5) Create a class Book having the following class variables – BookNo, Book\_Name, Author, Price.
  - i. Create a function **DisplayRec()** to display all the details and save these details in a binary file Books.dat
  - ii. Write a function **CountRec(Author)** which accepts the Author name as parameter and counts and returns number of books by the given Author and save it in a binary file as the name of the author.  
e.g. name of Author is Dan Brown then the file name must be **Dan Brown.dat**