ABET course syllabus 0931483 Pavement Lab. 1.

Course number and name 0931483 Pavement Lab.

2. Credits and contact hours

1 Credit hours

3. Course Instructor’s name

Coordinator's name

4. Text book, title, author, and year

“Pavement Design Laboratory Manual”, (Prepared only for the civil

engineering department/UOJ)

a. other supplemental materials

5. Specific course information

a. brief description of the content of the course

Includes the following tests: Penetration, softening point, flash point,

ductility, CBR, viscosity, stripping, loss on heat, Marshall, extraction,

aggregate air content, specific gravity, skid resistance, profilograph, and

surface texture.

b. prerequisites or co-requisites

0

c. indicate whether a required, elective, or selected elective course in the

programRequired

6. Specific goals for the course

The students will be able to understand and follow procedures, through lab manual.

The students will be able to work in teams, as experiments are conducted in groups.

The students will be able to prepare a technical report, as the findings of experiments have

to be reported in well-structured format.

The students will be able to critically evaluate their results, by bench marking them

with related published information

b. Course addresses ABET Student Outcome(s): 6

7. Brief list of topics to be covered

• C.B.R.

•Penetration and Softening Point

•Ductility and Flash Point

• Viscosity (kinematic and Saybolt)

•Marshall (sieving)

• Marshall (mixing)

• Midterm Exam

• Marshall (data and calculation)

• Maximum theoretical specific gravity and stripping

• Extraction

• Tests on Pavement Surface