| SOLID WASTE MANAGEMENT | | | | | | | | | |
|------------------------|--|---|---|--|--|--|--|--|--|
| 1 | Course Title: | SOLID V | VASTE MANAGEMENT | | | | | | |
| 2 | Course Code: | CEV3034 | | | | | | | |
| 3 | Type of Course: | Compuls | sory | | | | | | |
| 4 | Level of Course: | First Cyc | le | | | | | | |
| 5 | Year of Study: | 3 | | | | | | | |
| 6 | Semester: | 6 | | | | | | | |
| 7 | ECTS Credits Allocated: | 4.00 | | | | | | | |
| 8 | Theoretical (hour/week): | 3.00 | | | | | | | |
| 9 | Practice (hour/week): | 1.00 | | | | | | | |
| 10 | Laboratory (hour/week): | 0 | | | | | | | |
| 11 | Prerequisites: | - | | | | | | | |
| 12 | Language: | Turkish | | | | | | | |
| 13 | Mode of Delivery: | Face to f | face | | | | | | |
| 14 | Course Coordinator: | Prof. Dr. Nezih Kamil SALİHOĞLU | | | | | | | |
| 15 | Course Lecturers: | Prof.Dr. N. KAMİL SALİHOĞLU Doc. Dr. Selnur UCAROĞLU | | | | | | | |
| 16 | Contact information of the Course Coordinator: | Prof. Dr. N. Kamil SALİHOĞLU E-posta: nkamils@uludag.edu.tr Telefon: 0-224-2942118 Adres: Bursa Uludağ Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 16059,Görükle /BURSA | | | | | | | |
| 17 | Website: | | | | | | | | |
| 18 | Objective of the Course: | The objects to establish a sustainable waste management are: 1. Basic information supply to students on quality, quantity, collection and transportation of wastes, 2. Explanation of waste disposal methods. | | | | | | | |
| 19 | Contribution of the Course to Professional Development: | Engineer candidates are trained in waste management who are ready to work in waste management projects with different earnings such as planning, project design, cost, engineering calculations and management approaches. | | | | | | | |
| 20 | Learning Outcomes: | | | | | | | | |
| | | 1 | Explain the basic principles of sustainable waste management, | | | | | | |
| | | 2 | Carry out the characterization and analysis methods solid wastes, | | | | | | |
| | | 3 | Estimate the physical characteristics of solid wastes | | | | | | |
| | | 4 | Express the collection and transportation methods of solid wastes | | | | | | |
| | | 5 | Solve the problems related to waste collectrion methods | | | | | | |
| | | 6 | Decision the transportation methods of solid wastes | | | | | | |
| | | 7 | Determine the landfill and transfer station location criteria | | | | | | |
| | | 8 | Determine the disposal methods of solid wastes. | | | | | | |
| | | 9 | | | | | | | |
| | | 10 | | | | | | | |
| 21 | Course Content: | | | | | | | | |
| | | Co | ourse Content: | | | | | | |
| Week | Theoretical | | Practice | | | | | | |

| 1 | Course Schedule, introduction, gener knowledge and identification of solid decision on project groups. Determination of Project topics and g | ral wastes, roups. | Determination of charactesitics of solid wastes | | | | | | | | |
|------------------------|--|--------------------------|--|--|--------------------------------|---------------------------|--|--|--|--|--|
| 2 | Solid waste management- Classificat solid wastes | ion of | D | Determination of charactesitics of solid wastes | | | | | | | |
| 3 | Quantity, composition, size and characteristics of solid wastes. | | Q W | uantity, composition, s astes. | ize and characteris | tics of solid | | | | | |
| 4 | Characteristics of solid wastes. | | Quantity, composition, size and characteristics of solid wastes. | | | | | | | | |
| 5 | Collection and transportation of solid | wastes. | Calculations on waste collections | | | | | | | | |
| 6 | Collection and transportation of solid | wastes. | Calculations on waste collection and transportation. | | | | | | | | |
| 7 | Transfer stations, transportation and methods of solid wastes. | disposal | Transfer station location criteria | | | | | | | | |
| 8 | Transfer stations, transportation and methods of solid wastes. midterm examples | disposal am | Transfer calculation | | | | | | | | |
| 9 | Sanitary Landfilling | | La | andfill area and volume | e calculation | | | | | | |
| 10 | Sanitary Landfilling | | Landfill area and volume calculation | | | | | | | | |
| 11 | Technical Visit | | Te | echnical Visit | | | | | | | |
| 12 | Recovery of solid wastes- Compostin | ıg. | С | omposting calculation | | | | | | | |
| 13 | Composting- Incineration – Presentation ion of | М | oisture and C/N calcul | ations for composti | ng | | | | | |
| 14 | Presentation of group projects. | | Ρ | Presentation of group projects. | | | | | | | |
| Activit | tes | | | Number | Duration (hour) | Total Work Load (hour) | | | | | |
| Theore | tical | | 2. F | Splid Waste Manager | nentsVolume 1, Uni (2005) | tgd. Mations | | | | | |
| Practic | als/Labs | | | 14 | 1.00 | 14.00 | | | | | |
| Self stu | dy and preperation | | tc 2 | r Decision-Makers in L 20 EPA 530-R-20-002 | Peveloping Countrie | s October | | | | | |
| Homew | vorks | | | 1 | 30.00 | 30.00 | | | | | |
| Project | 8 | | (⊿ K | u19) Kati Atik Geri Do Itabi. Türkive Beledivel | Eknolojileri El Temmuz 2019 | | | | | | |
| Field S | tudies | | | 1 | 5.00 | | | | | | |
| Midtern | n exams | | | 1 | 10.00 | 10.00 | | | | | |
| Others | | | | 0 | 0.00 | 0.00 | | | | | |
| FERME | ARNING ACTIVITIES | NUMBE | W | ÉIGHT | 10.00 | 10.00 | | | | | |
| Total W | Vork Load | | | | | 121.00 | | | | | |
| Total w | kork lõäd/ 30 hr | | 2 | | | 4.03 | | | | | |
| ECTS (| Credit of the Course | 1-1 | - 7 | | | 4.00 | | | | | |
| Final E | | 1 | 60.00 | | | | | | | | |
| Total | Aan | 3 | 100.00 | | | | | | | | |
| Contrib | aution of Term (Vear) Learning Activitie | os to | 40.00 | | | | | | | | |
| Succes | ss Grade | 53 10 | | | | | | | | | |
| Contrib | oution of Final Exam to Success Grade | 9 | 60.00 | | | | | | | | |
| Total | | | 100.00 | | | | | | | | |
| Measur Course 24 | rement and Evaluation Techniques Us | sed in the | Student-centered assessment and evaluation methods and techniques are used in this course. | | | | | | | | |

| 25 | CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS | | | | | | | | | | | | | | | |
|--|--|-----|-----|-------|-----|-----|----------|-----|-----|----------|------|------|-------------|------|------|------|
| | PQ1 | PQ2 | PQ3 | PQ4 | PQ5 | PQ6 | PQ7 | PQ8 | PQ9 | PQ1 0 | PQ11 | PQ12 | PQ1 3 | PQ14 | PQ15 | PQ16 |
| ÖK1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| ÖK2 | 0 | 5 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK4 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK5 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK6 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK7 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK8 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| LO: Learning Objectives PQ: Program Qualifications | | | | | | | | | | | | | | | | |
| Contrib ution Level: | ib 1 very low I I: | | | 2 low | | | 3 Medium | | | 4 High | | | 5 Very High | | | |