

**Студиска програма: SUSTAINABLE ENERGY and ENVIRONMENT**

**Study program: SUSTAINABLE ENERGY and ENVIRONMENT**

Thesecondcycleofuniversity,academicstudiesat Sustainableenergyandenvironmentstudy program, is organized asa regular one-year(two-semester)study

There are fourrecognized modules at thesecondcycle ofuniversitystudies

1. Module M4 - Knowledgeof mathematics and computer science
2. Module M5 - Advanced levels of basicknowledge
3. Module M6 - Advanced levels of specific knowledge
4. Module M7 - Master thesis

Table - The structure of annual academic, university studies, second cycle, Sustainable energy and environmentstudy program

No.	Courseprograms (subjects)	ECTS	Winter semester IX	Summer semester X
1.	M4-1 Elective course from table 3	6	6	
2.	M5-1 Elective course from table 4	6	6	
3.	M5-2 Elective course from table 4	6	6	
4.	M5-3 Elective course from table 4	6	6	
5.	Electivefrom Universitylist	6	6	
6.	M6-1 Elective course from table 5	6		6
7.	M6-2 Elective course from table 5	6		6
	M7 Master thesis	18		18
<b>Total credit persemester:</b>		<b>60</b>	<b>30</b>	<b>30</b>
<b>Total credit:</b>		<b>42ECTSfromcourses+18ECTS frommasterthesis= 60 ECTS</b>		

Electivecoursesfromfaculty**moduleM4**,knowledgeofmathematicsandcomputer science, 3 courseprograms (subjects) –onecourse is elected.

Elective courses fromfaculty**module M5**, advancedlevels ofbasic knowledge, 7 courseprograms (subjects)-three courses areelected.

Elective courses fromfaculty**module M6**, advancedlevels ofspecific knowledge, 10 courseprograms (subjects)-two courses areelected.

Thestructureofthestudyprogramisprovidingafreecoursefromthelistofuniversity courses proposedbyeachunitoftheuniversity,especiallytomeettheelective10%underArticle99ofthe Law on HigherEducation fromwhich students can chooseonlyone courseprogram.

Freelistofuniversity courseprogramsaresupplementedby allaccreditedcoursesfromthesecond cycle (compulsoryand elective) at thefacultyofMechanical Engineering in Skopje.

Elective courses from faculty **module M4**, knowledge of mathematics and computer science

No.	Winter semester IX semester (one course is elected)	ECTS credits	Professor
1.	M4 Selected topics in Applied Mathematics	6	Prof. dr. Aleksa Malcheski Ass. prof. dr. Bojan Prangoski
2.	M4 Selected topics in informatics	6	Prof. dr. Dushan Chakmakov Assoc. prof. dr. Emilija Celakoska
3.	M4 Probability and Statistics	6	Prof. dr. Nikola Tuneski Ass. prof. d-r Mirko Petrushevski

Elective courses from faculty **module M5**, advanced levels of basic knowledge

No.	Winter semester IX semester (three course are elected)	ECTS credits	Professor
1.	M5 Modern thermal plants	6	Prof. dr. Done Tashevski
2.	M5 Advanced thermodynamics – selected chapters	6	Assoc. prof. de. Risto Filkoski
3.	M5 Transport and the environment	6	Assoc. prof. dr. Dame Dimitrovski
4.	M5 Fluid mechanics in environmental engineering	6	Prof. dr. Valentino Stojkovski Prof. dr. Zoran Markov
5.	M5 Environmental measurement methods and monitoring systems	6	Prof. dr. Valentino Stojkovski Assoc. prof. dr. Darko Babunski
6.	M5 Environmental systems analysis	6	Prof. dr. Atanas Tuneski
7.	M5 An introduction to eco-innovations	6	Prof. dr. Atanas Kochov

University - Elective from University list

No.	Winter semester IX semester (one course is elected)	ECTS credits	Professor
1.	Elective from <b>University list</b> (all accredited courses from the second cycle at the faculty of Mechanical Engineering in Skopje)	6	

Elective courses from faculty **module M6**, advanced levels of specific knowledge

No.	Summer semester X semester (two course are elected)	ECTS credits	Professor
1.	M6 Non-conventional power plants	6	Ass. prof. dr. Igor Shesho
2.	M6 Water and waste water treatment	6	Prof. dr. Zoran Markov
3.	M6 Energy efficiency	6	Prof. dr. Done Tashevski
4.	M6 Eco-engines	6	Assoc. prof. dr. Dame Dimitrovski
5.	M6 Design of fluid conveying and hydro power system	6	Prof. dr. Valentino Stojkovski Prof. dr. Zoran Markov
6.	M6 Waste management	6	Assoc. prof. dr. Dame Dimitrovski

<b>7.</b>	<b>M6</b> Energy vs. sustainable development: Concepts and aspects	6	Assoc. prof. dr. Ana Lazarevska
<b>8.</b>	<b>M6</b> Automation of environmental processes	6	Assoc. prof. dr. Emil Zaev Assoc. prof. dr. Darko Babunski
<b>9.</b>	<b>M6</b> Clean fossil and alternative fuels energy	6	Prof. dr. Risto Filkoski
<b>10.</b>	<b>M6</b> Experts in teamwork	6	Prof. dr. Zoran Markov Assoc. prof. dr. Dame Dimitrovski Ass. prof. dr. Igor Shesho Assoc. prof. dr. Ana Frichand

**Module M7, Master thesis**

<b>No.</b>	<b>Summer semester X semester</b>	<b>ECTS credits</b>	<b>Professor</b>
<b>1.</b>	<b>M7</b> Master thesis	18	