

Burgas State University "Prof. Dr. Assen Zlatarov"

Approved!
Rector:



Curriculum for acquiring higher education in the specialty "Chemical Engineering" Educational and qualification degree "Bachelor"

Field of higher education: 5."Technical Sciences"
Professional field: 5.10."Chemical technologies"
Professional qualification: "Chemical Engineer"
Term of study: 4 years (8 semesters)
Form of education: full-time

Approved by the FC FTS Protocol № 26/15.04.2025
Approved by the AC Protocol № 36/29.04.2025

I. STUDY TIME FUND

C o u r s e	Auditorium	Exam sessions	PRACTICES:			State Exam	Holidays	Total
			Educational	Educational and production	Specializing			
	weeks	weeks	weeks	weeks	weeks	weeks	weeks	weeks
I.	30	11					11	52
II.	30	11					11	52
III.	30	11		2			9	52
IV.	30	11				8	3	52

II. CURRICULUM PARAMETERS

1.	Auditorial, h.	(A)	2245	%
	Lectures	(L)	1035	46.1
	Seminars	(S)	260	11.6
	Practicals	(P)	950	42.3
	Physical Education and Sport		60	hours

Practices	number	hours
Educational (e)	0	0
Educational and production (ep)	1	40
Specializing (sp)	0	0

2.	Subjects	number	hours	%
	Obligatory (o)	35	2065	89.6
	Elective (e)	4	180	7.8
	Facultative (f)	2	60	2.6

Extracurricular, h (E)	4955	h.
Auditorial/ = Extracurricular, h (A/E)	45.3	%
	number	hours
Course projects (cp)	6	255
Course works (cw)	0	0

- Forms of control (FC):** Exams (E) 27 | Current Assessments (CA) 16 | Verifications (V) 0
- Form of completion:** State Exam/Bachelor's thesis
- Schedule of the educational process:** Approved annually by the Academic Council.

III. PLAN OF THE EDUCATIONAL PROCESS

First Semester											
№	Subject	Type	L		S		P		A		FC
			h.	h.	h.	h.	h.	h.	h.	h.	
1.	Calculus, Part I	O	30		30				60	150	E
2.	Inorganic Chemistry	O	45		15		30		90	210	E
3.	Fundamentals of Engineering Calculations	O					30	30	90	33.3	E
4.	Engineering Graphics	O	15				30	45	105	42.9	CA
5.	Foreign Language of choice from List 1	E			45			45	75	60.0	CA
6.	Facultative Subject from List 3	F									CA
7.	Physical Education and Sport										CA
8.											
9.											
Total:			90		90		90		270	630	42.9
											30
Second Semester											
№	Subject	Type	L		S		P		A		FC
			h.	h.	h.	h.	h.	h.	h.	h.	
1.	Calculus, Part II	O	30		30				60	120	E
2.	Physics	O	30				30	60	120	50.0	E
3.	Organic Chemistry	O	45				30	75	165	45.5	E
4.	Information Technology	O	30				30	60	120	50.0	E
5.	Foreign Language of choice from List 1	E			45			45	75	60.0	CA
6.	Facultative Subject from List 3	F									CA
7.	Physical Education and Sport										CA
8.											
9.											
Total:			135		75		90		300	600	50.0
											30
Third Semester											
№	Subject	Type	L		S		P		A		FC
			h.	h.	h.	h.	h.	h.	h.	h.	
1.	Applied Electrical Engineering and Electronics	O	30				30	60	120	50.0	CA
2.	Analytical Chemistry	O	30				30	60	120	50.0	E
3.	Physical Chemistry Part I	O	30				30	60	150	40.0	E
4.	Engineering Mechanics	O	30				30	60	120	50.0	E
5.	Introduction to AUTOCAD	O					45	45	105	42.9	CA
6.											
7.											
Total:			120				165		285	615	46.3
											30
Fourth Semester											
№	Subject	Type	L		S		P		A		FC
			h.	h.	h.	h.	h.	h.	h.	h.	
1.	Hydromechanics and hydraulic machines	O	45				45	90	240	37.5	E
2.	Modern Analysis Methods	O	30				30	60	150	40.0	E
3.	Physical Chemistry Part II	O	30				30	60	150	40.0	E
4.	Fundamentals of chemical technology	O	30				15	45	105	42.9	E
5.											
6.											
Total:			135				120		255	645	39.5
											30
Fifth Semester											
№	Subject	Type	L		S		P		A		FC
			h.	h.	h.	h.	h.	h.	h.	h.	
1.	Chemical Engineering Thermodynamics	O	30				30	60	150	40.0	CA
2.	Physicochemical properties of fluids	O					30	30	60	50.0	CA
3.	Hydromechanical separation processes, incl. CP	O	45	cp	10		35	90	210	42.9	E
4.	Mathem. Modeling and Optimization of Chemical Technological Processes	O	30				30	60	120	50.0	E
5.	Technical Mechanics - Course Project (Machine Elements)	O		cp	10		20	30	90	33.3	CA
6.											
7.											
Total:			105		20		145		270	630	42.9
											30
Sixth Semester											
№	Subject	Type	L		S		P		A		FC
			h.	h.	h.	h.	h.	h.	h.	h.	
1.	Process Control Engineering	O	30				15	45	75	60.0	E
2.	Heat Transfer and Applications	O	45	cp	15		30	90	180	50.0	E
3.	Mass Transfer and Separation Operations 1	O	45	cp	15		30	90	180	50.0	E
4.	Educational Manufacturing Practice	O				ep	40	40	80	50.0	E
5.	Industrial Ecology	O	30				15	45	75	60.0	CA
6.											

