

VARNA UNIVERSITY OF MANAGEMENT
PROGRAMME CURRICULUM
BSc (Hons) SOFTWARE SYSTEMS AND TECHNOLOGY
 Full-time 3 years

PROFESSIONAL FIELD: 4.6 Informatics and Computer Science

Language of instruction: Bulgarian / English

№	code	Module / Re	academic load				Extracurricular employ	Total classes	ECTS	evaluation	
			lectures	Exercises, PBL / CBL	Practice	total					
1	2		3	4	5	6	7	8	9	10	11
Year One											
First semester											
Compulsory modules											
1	PRBAS	Programming Basics	50	75		125	125	250	10	IA + E / T	
2	MATHCOM	Mathematics for Software Engineering	25	25		50	75	125	5	IA + E / T	
3	COMARCH	Computer Architectures and Operating Systems	25	25		50	75	125	5	IA + E / T	
4	COS	Computer Technology and Society	25	25		50	75	125	5	IA + E / T	
5	LAN1	English		45		45	105	150	5	IA + E / T	
	SPORTS	Sports		30		30		30			
Total			125	225	0	350	455	805	30		
Second semester											
Compulsory modules											
6	SOFTDES	Software Design	25	25		50	75	125	5	IA + E	
7	DEVSS1	Developing Software Systems I	25	25		50	75	125	5	IA + E / T	
8	DATASTR1	Data Structures and Algorithms I	25	25		50	75	125	5	IA + E / T	
9	PRCPR	Principles of Programming	25	25		50	75	125	5	IA + E / T	
10	NETCOM	Computer Networks and Communications	25	25		50	75	125	5	IA + E	
11	SOFTQENG	Software Engineering Quality Assurance	25	25		50	75	125	5	IA + E	
	SPORTS	Sports		30		30		30			
Total			150	180	0	330	450	780	30		
Summer Internship I											
12	INT1	Summer Internship I				60	60	190	250	10	CW + PRES
Total			0	0	60	60	190	250	10		
Year Two											
Third semester											
Compulsory modules											
13	JAVASCR	JavaScript Programming	25	25		50	75	125	5	IA + E / T	
14	DATASTR2	Data Structures & Algorithms II	25	25		50	75	125	5	IA + E / T	
15	SOFTENGPROC	Software Engineering Processes	25	25		50	75	125	5	IA + E	
16	DATAKNLMAN	Data and Knowledge Management	25	25		50	75	125	5	IA + E	
17	LAN2	English		45		45	105	150	5	IA + E	
	SPORTS	Sports		30		30		30			
Elective modules (1 of 4)											
18.1	SOFTMET	Software Metrics - Tools and Methodology	25	25		50	75	125	5	IA + E	
	COMGRAPH	Computer Graphics	25	25		50	75	125	5	IA + E	
	MULTIM1	Computer Multimedia	25	25		50	75	125	5	IA + E + CW	
	DIGSEC	Digital Security	25	25		50	75	125	5	IA + E	
Total			125	200	0	325	480	805	30		
Fourth semester											
Compulsory modules											
19	MOBTECH	Mobile Technologies	25	25		50	75	125	5	IA + E + CW	
20	SOFTENGMOD	Software Engineering Models	25	25		50	75	125	5	IA + E + CW	
21	RMCOM	Research Methods for Computing & IS	25	25		50	75	125	5	IA + E + CW	
22	DEVSS2	Developing Software Systems II	25	25		50	75	125	5	IA + E	
23	SPECREQ	Specifications and Requirements	25	25		50	75	125	5	IA + E / T	
24	WEBPR	Web Programming	25	25		50	75	125	5	IA + E / T	
	SPORTS	Sports		30		30		30			
Total			150	180	0	330	450	780	30		
Summer Internship II											
25	INT2	Summer Internship II				60	60	190	250	10	CW + PRES
Total			0	0	60	60	190	250	10		

Year Three										
Fifth semester										
Compulsory modules										
26	PROFETH	Professional and Ethical Issues in IT	50	75		125	125	250	10	CW + E
27	LAN3	English		75		75	225	300	10	IA + E
	SPORTS	Sports		30		30		30		
Elective Specialising Modules (1 of 5)										
28.2	INTSYS	Intelligent Systems	50	75		125	125	250	10	IA + E
	COMINTELL	Computational Intelligence	50	75		125	125	250	10	IA + E
	CYBSEC	Cyber Security	50	75		125	125	250	10	IA + E
	MULTIM2	Advanced Multimedia	50	75		125	125	250	10	IA + E + CW
	ANBUSINTELL	Analytics & Business Intelligence	50	75		125	125	250	10	IA + E
Total			100	255	0	355	475	830	30	
Sixth semester										
Compulsory modules										
29.3	DIP_PB	Diploma project				0	250	250	10	
	DIPSEM_PB	Diploma seminar		60		60		60		
	SPORTS	Sports		30		30		30		
Elective Modules (1 of 3)										
30.4	PARDISTSYS	Parallel and Distributed Systems	50	75		125	125	250	10	IA + E
	MANPRJIT	IT Project Management	50	75		125	125	250	10	IA + CW
	EMPL	Employability	50	75		125	125	250	10	IA + CW
Elective Modules (1 of 2)										
31.5	OOS2	Object-Oriented Systems 2	50	75		125	125	250	10	CW
	ADVPR	Advanced Programming	50	75		125	125	250	10	CW + E
Total			100	240	0	340	500	840	30	
Total for the 3 years			750	1280	120	2150	3190	5340	200	

* Students choose one of two options for the graduation project:

Develop configurable software system

Development of software

IA In-class activities

CW Course Work

T Test

E Exam

Pres Presentation