

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	Academic Load				Extracurricular Employment	Total Classes	ECTS
			Lectures	Exercises, PBL / CBL	Practice	Total			
1	2	3	4	5	6	7	8	9	10
Year One									
First Semester									
Compulsory Modules									
1	PRBAS	Programming Basics	25	25		50	75	125	5
2	MATHCOM	Mathematics for Software Engineering	25	25		50	75	125	5
3	COMARCH	Computer Architectures and Operating Systems	25	25		50	75	125	5
4	COS	Computer Technology and Society	25	25		50	75	125	5
5	NETCOM	Computer Networks and Communications	25	25		50	75	125	5
6	LAN1	English		45		45	105	150	5
7	SPORTS	Sports		30		30		30	
Total			125	200	0	325	480	805	30
Second Semester									
Compulsory Modules									
8	SOFTDES	Software Design	25	25		50	75	125	5
9	JAVASCR	JavaScript Programming	25	25		50	75	125	5
10	DATASRT1	Data Structures and Algorithms I	25	25		50	75	125	5
11	PRCPR	Principles of Programming	25	25		50	75	125	5
12	SOFTQENG	Software Engineering Quality Assurance	25	25		50	75	125	5
13	RMCOM	Research Methods for Computing & IS	25	25		50	75	125	5
	SPORTS	Sports		30		30		30	
Total			150	180	0	330	450	780	30
Summer Internship I									
14	INT1	Summer Internship I			60	60	190	250	10
Total					60	60	190	250	10
Year Two									
Third Semester									
Compulsory Modules									
15	DEVSST1	Developing Software Systems I	25	25		50	75	125	5
16	DATASRT2	Data Structures & Algorithms II	25	25		50	75	125	5
17	SEMODPROC	Software Engineering Models and Processes	25	25		50	75	125	5
18	DATAKNLMAN	Data and Knowledge Management	25	25		50	75	125	5
19	HCI	Human-Computer Interaction	25	25		50	75	125	5
	SPORTS	Sports		30		30		30	
Elective Modules (1 of 4)									
20.1	AIBBA	AI Basis and Business Applications	25	25		50	75	125	5
	COMGRAPH	Computer Graphics	25	25		50	75	125	5
	MULTIM1	Computer Multimedia	25	25		50	75	125	5
	DIGSEC	Digital Security	25	25		50	75	125	5
Total			150	180	0	330	450	780	30
Fourth Semester									
Compulsory Modules									
21	MOBTECH	Mobile Technologies	25	25		50	75	125	5
22	DEVSS2	Developing Software Systems II	25	25		50	75	125	5
23	SPECREQ	Specifications and Requirements	25	25		50	75	125	5
24	WEBPR	Web Programming	25	25		50	75	125	5
	SPORTS	Sports		30		30		30	
Elective Modules (2 of 3)									
25.2	MOBTECHPP	Mobile Technologies Practical Project		10		10	115	125	5
26.3	WEBPRPP	Web Programming Practical Project		10		10	115	125	5
	SOFTDESPP	Software Design Practical Project		10		10	115	125	5
Total			100	150	0	250	530	780	30
Summer Internship II									
27	INT2	Summer Internship II			60	60	190	250	10
Total					60	60	190	250	10
Year Three									
Fifth Semester									
Compulsory Modules									
28	PARDISCOM	Parallel and Distributed Computing	50	75		125	125	250	10
29	CSC	Cyber Security & Cryptography	50	75		125	125	250	10
30	ETHICS	Ethical Research Issues		60		60		60	5
	SPORTS	Sports		30		30		30	
Elective Specialising Modules (1 of 4)									
31.4	INTSYS	Intelligent Systems	25	25		50	75	125	5
	COMINTELL	Computational Intelligence	25	25		50	75	125	5
	CTECH	Cloud Technologies	25	25		50	75	125	5
	BIGDATA	Big Data Analytics	25	25		50	75	125	5
Total			125	265	0	390	325	715	30
Sixth Semester									
Compulsory Modules									
32	DIP_B	Diploma project				0	250	250	10
	SPORTS	Sports		30		30		30	
Elective Modules (1 of 2)									
33.5	PROFETH	Professional, Sustainable & Ethical Technology	50	75		125	125	250	10
	MANPRJIT	IT Project Management	50	75		125	125	250	10
Elective Modules (1 of 2)									
34.6	ADVPR	Advanced Programming	50	75		125	125	250	10
	BCTECH	Blockchain Technologies	50	75		125	125	250	10
Total			100	180	0	280	500	780	30
Total for the 3 years			750	1155	120	2025	3115	5140	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
PRAC Practical Task
D Defence
PORT Portfolio

Additional information:

Graduates of the Software Systems and Technologies program have the opportunity to work as information systems managers, system and network administrators, programmers, software specialists, web designers, multimedia programmers, IT consultants, specialists in mobile applications, and more. Due to the extremely wide application of information systems, graduates of this specialty can find professional realization in a variety of organizations across the public, private, and non-governmental sectors.