Course Structure

		Pokhara University			
		elor in Computer Application, 2022 (Proposed Curricul	um Struct		1
Year	:I	Semester I		Revised	
SN	Course Code	Subject	Credit	Lecture	Practical
1	ENG 121	English for IT Professionals	3	3	1
2	MTH 131	Mathematics I	3	3	0
3	ELX 111	Digital Logic System	3	3	1
4	CMP 116	Computer Fundamental and Application	3	3	2
5	CMP 117	Programming Logic and Technique	3	3	0
6	CMP 111	Computer Application Workshop	1	0	3
		Subtotal	16	15	7
Year	:I	Semester II			
SN	Course Code	Subject	Credit	Lecture	Practical
1	ENG 122	Business and Technical Communication	3	3	1
2	MTH 132	Mathematics II	3	3	0
3	ACC 131	Financial Accounting	3	3	1
4	CMP 118	Programming in C	3	3	3
5	ELX 112	Microprocessor and Computer Architecture	3	3	1
6	PRJ 151	Project I	1	1	2
		Subtotal	16	16	8
Year	: II	Semester III			
SN	Course Code	Subject	Credit	Lecture	Practical
1	CMP 215	Object Oriented Programming using Java	3	3	3
2	CMP 227	Data Structure and Algorithms	3	3	2
3	CMP 221	Systems Analysis and Project Management	3	3	1
4	CMP 380	Web Technology I	3	3	3
5	CMP 230	Operating Systems	3	3	1
		Subtotal	15	15	8
Year	: II	Semester IV			
SN	Course Code	Subject	Credit	Lecture	Practical
1	CMP 323	Software Engineering	3	3	1
2	CMP 226	Database Management System	3	3	3
3	CMP 242	Computer Graphics and Multimedia Technology	3	3	2
4	MTH 320	Probability and Statistics	3	3	0
5	CMP 402	Web Technology II	3	3	3
6	PRJ 251	Project II	2	1	3
		Subtotal	18	16	11
Year	: III	Semester V	10	10	
S. N.	Course Code	Subject	Credit	Lecture	Practical
1	MTH 230	Numerical Methods	3	3	1
2	CMP 317	DotNet Technology	3	3	3
3	CMP 336	Data Communication and Computer Network	3	3	2
4	ELE 322	Research Methodology	3	3	1
5	MTH 330	Mathematical Foundation in Computer Application	3	3	0
5	MIII 550		15	15	7
Year	: III	Semester VI	15	15	,
SN	Course Code	Subject	Credit	Lecture	Practical
1	CMP 316	Data Science and Analytics	3	3	2
2	CMP 316 CMP 314	Management Information Systems	3	3	0
3	CMP 314 CMP 350	Simulation and Modeling	3	3	1
4	MGT 322	Organization Management	3	3	0
5	NICT 322	Elective I	2	3	0
5	DD I 251				-
3	PRJ 351	Project III Subtotal	3	1	3
V 7	. 137	Subtotal	17	17	9
Year	: IV	Semester VII	C	Lot	Duc -4
SN 1	Course Code	Subject	Credit		Practical
1	CMP 401	Cyber Law and Professional Ethics	3	3	
2	CMP 404	Mobile Application Development Technology	3	3	3
3	ECO 311	Applied Economics	3	3	0
4	INT 461	Internship	3	1	0
5		Elective II	3	3	-
		Subtotal	15	13	5
Year	: IV	Semester VIII		-	
SN	Course Code	Subject	Credit	Lecture	Practical
1	CMP 415	Cloud Computing	3	3	2
2	CMP 416	Digital Economy	3	3	2
					1
3		Elective III	3	3	-
	PRJ 451	Project IV Subtotal	3 5 14	3 1 10	3 7

Total	126	107	55
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Elective courses

Group A (Ele	Group B (Elective III)	
1. Data Mining and Warehousing	17. Distributed Database System	 Knowledge Engineering
2. Geographical Information System	18. Internet of Things (IoT)	API Design and Development
3. Statistical Quality Control	19. Cryptography	3. Legal and Ethical Issues in e-Governance
4. Legal and Ethical Issues in e-Governance	20. Software Testing and Project Management	4. Formal Methods in Software Engineering
5. AI Ethics	21. Cyber security and Ethical Hacking	5. Fuzzy Logic with Engineering Application
6. IT Governance	22. Enterprise Cyber Security and Management	6. Human Computer Interaction
7. Digital Economy	23. Information System Audit	7. Offensive Security/Penetration Testing
Digital Marketing	24. International Business	8. Promotion Management
9. ICT Change Management	25. Advanced Techniques in Programming	9. Compiler Design
10. Advanced DotNet Programming	26. Cross-platform Mobile Development	10. Block chain Technology
11. Embedded System Programming	27. Image Processing with Python	11. IP Switching and Routing
12. Shell Script Programming	Server Design and Development	12. Network Programming
13. COM/DCOM Programming	29. Advance Database (PL/SQL)	Systems Servers and DevOps
14. Artificial Intelligence	Advanced Java Programming	14. Natural Language Processing
15. Professional Ethics and Integrity	31. Software Testing and Project Management	15. Deep Learning
16. Account for Managers	32. Applied Accountancy	16. Managerial Accountancy