

**Pokhara University**  
**BBA Program**  
**CURRICULAR STRUCTURE AND COURSE CYCLE**  
*(Effective from 2013 Intake)*

		Semester I		Semester II	
Course Code	Course Description	Credit Hours	Course Code	Course Description	Credit Hours
ENG 101	English I	3	ENG 102	English II	3
MTH 101	Business Mathematics I	3	MTH 102	Business Mathematics II	3
ACC 121	Financial Accounting I	3	ACC 122	Financial Accounting II	3
MGT 111	Principles of Management	3	PSY 101	General Psychology	3
MIS 101	Computer and IT Applications	3	ECO 101	Introductory Microeconomics	3
		<b>15</b>			<b>15</b>
		Semester III		Semester IV	
Course Code	Course Description	Credit Hours	Course Code	Course Description	Credit Hours
ENG 201	Business Communication I	3	ENG 202	Business Communication II	3
STT 101	Business Statistics	3	STT 201	Data Analysis and Modeling	3
FIN 131	Essentials of Finance	3	MGT 211	Fundamentals of Organizational Behaviour	3
SOC 101	Fundamentals of Sociology	3	MKT 241	Principles of Marketing	3
ECO 201	Introductory Macroeconomics	3	FIN 231	Financial Management	3
		<b>15</b>			<b>15</b>
		Semester V		Semester VI	
Course Code	Course Description	Credit Hours	Course Code	Course Description	Credit Hours
ACC 221	Basics of Managerial Accounting	3	MIS 201	Introduction to Management Information Systems	3
RCH 311	Business Research Methods	3	LAW 291	Legal Aspects of Business and Technology	3
MGT 314	Management of Human Resources	3	MGT 212	Business and Society	3
MGT 311	Fundamentals of Operations Management Concentration I	3	PRJ 491	Project Work	3
		<b>15</b>			<b>15</b>
		Semester VII		Semester VIII	
Course Code	Course Description	Credit Hours	Course Code	Course Description	Credit Hours
MGT 411	Business Environment in Nepal	3	MGT 412	Strategic Management	3
MGT 312	Fundamentals of Entrepreneurship	3	MGT 313	Introduction to International Business	3
INT 391	Internship	3	MIS 202	Essentials of e-Business	3
		<b>15</b>			<b>15</b>



**Pokhara University**  
**Bachelor of Computer Application (BCA), (2012 onward)**  
**CURRICULAR STRUCTURE AND COURSE CYCLE**

**Semester I**

S. N.	Course Code	Course Description	Credit
1	ENG 121	English	3
2	MTH 131	Mathematics I	3
3	ELX 111	Digital Logic Systems	3
4	CMP 116	Computer Fundamental and Application	3
5	CMP 117	Programming Logic and Techniques	3

**Semester II**

S. N.	Course Code	Course Description	Credit
1	ENG 122	Business and Technical Communication	3
2	MTH 132	Mathematics II	3
3	ACC 131	Financial Accounting I	3
4	CMP 118	Programming Language in C	3
5	ELX 112	Fundamentals of Electrical and Electronic	3
6	PRJ 151	Project I	1

**Semester III**

S. N.	Course Code	Course Description	Credit
1	CMP 215	Object Oriented Programming in C++	3
2	CMP 227	Data Structure & Algorithms	3
3	CMP 221	Systems analysis and Design	3
4	ACC 231	Financial Accounting II	3
5	ELX 232	Microprocessor	3

**Semester IV**

S. N.	Course Code	Course Description	Credit
1	MTH 231	Numerical Methods	3
2	CMP 216	Visual Programming	3
3	CMP 230	Operating Systems	3
4	CMP 227	Database Management System	3
5	CMP 242	Computer Graphics & Multimedia Technology	4
6	PRJ 251	Project II	2

**Semester V**

S. N.	Course Code	Course Description	Credit
1	CMP 332	Computer Architecture	3
2	CMP 313	Java Programming	3
3	CMP 380	Web Technologies I	3
4	MTH 330	Mathematical Foundation of Computer Science	3
5	CMP 323	Software Engineering	3

**Semester VI**

S. N.	Course Code	Course Description	Credit
1	MGT 322	Organization Management	3
2	MTH 320	Fundamentals of Probability and Statistics	3
3	CMP 402	Web Technologies II	3
4	CMP 336	Data Communication and Computer Network	3
5	ECO 311	Applied Economics	3
6	PRJ 351	Project III	3

**Semester VII**

S. N.	Course Code	Course Description	Credit
1	CMP 401	E-Business	3
2	CMP 350	Simulation and Modeling	3
3	CMP 337	Linux	3
4	INT 461	Internship	3
5		Elective I	3

**Semester VIII**

S. N.	Course Code	Course Description	Credit
1	MGT 421	Management Information System	3
2	CMP 404	Mobile Application Development Technology	3
3		Elective II	3
4	PRJ 451	Project IV	5



Year I		Semester I		Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject							
1	MTH 112	Engineering Mathematics I				3	3	2	0
2	PHY 111	Physics				4	4	2	2
3	MEC 111	Thermal Science				2	2	1	2
4	MEC 120	Engineering Drawing				2	0	0	6
5	CMP 113	Programming in C				3	3	0	3
6	ELE 110	Basic Electrical Engineering				3	3	1	2

Year I		Semester II		Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject							
1	MTH 114	Engineering Mathematics II		MTH 112		3	3	2	0
2	CHM 111	Chemistry				4	4	1	2
3	CMP 115	Object Oriented Programming in C++				3	3	1	3
4	ENG 111	Communication Techniques				2	2	2	1
5	MEC 110	Mechanical Workshop				1	0	0	3
6	MEC 130	Applied Mechanics I				3	3	2	0

Year : II		Semester III		Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject							
1	MTH 212	Engineering Mathematics III		MTH 114	MTH 112	3	3	2	0
2	MEC 131	Applied Mechanics II				2	2	2	0
3	CVL 211	Civil Engineering Materials				2	2	0	2
4	WRE 210	Fluid Mechanics				3	3	2	2
5	STR 210	Strength of Materials				3	3	2	1
6	GTE 210	Engineering Geology				3	3	1	2
7	CVL 290	Project I				1	0	0	2

Year : II		Semester IV		Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject							
1	MTH 220	Probability and Statistics				3	3	2	0
2	CVL 221	Surveying I				3	3	1	4
3	ELX 110	Basic Electronics Engineering				2	2	1	2
4	MTH 230	Numerical Methods				3	3	1	3
5	WRE 211	Hydraulics		WRE 210		3	3	2	3
6	STR 212	Structural Analysis I		STR 210		3	3	2	1

Year : III		Semester V		Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject							
1	ARC 358	Building Technology				2	2	0	2
2	WRE 350	Engineering Hydrology				2	2	2	1
3	STR 312	Structural Analysis II		STR 212		3	3	2	1
4	GTE 320	Soil Mechanics				4	4	2	2
5	ENV 330	Water Supply Engineering				3	3	2	1
6	CVL 390	Project II				1	0	0	2
7	CVL 321	Surveying II		CVL 221		3	3	1	4

Year : III		Semester VI		Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject							
1	WRE 320	Irrigation Engineering			WRE 210	3	3	2	0
2	STR 320	Design of Steel and Timber Structures				3	3	2	0
3	GTE 321	Foundation Engineering				3	3	2	1
4	ENV 331	Sanitary Engineering				3	3	2	1
5	STR 331	Concrete Technology & Masonry Structures				3	3	1	2
6	CVL 322	Survey Field Project				1	0	0	2

Year : IV		Semester VII		Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject							
1	STR 440	Design of R.C.C. Structures				3	3	2	1
2	TRP 411	Transportation Engineering I				3	3	2	2
3	WRE 430	Hydropower Engineering				3	3	2	1
4	CVL 431	Estimating and Valuation				3	3	2	0
5	---	Elective I				3	3	0	0
6	ECO 411	Engineering Economics				3	3	2	0

Year : IV		Semester VIII		Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject							
1	CVL 441	Construction Project Management				3	3	2	0
2	CVL 440	Engineering Professional Practice				2	2	0	0
3	TRP 412	Transportation Engineering II		TRP 411		3	3	2	1
4	---	Elective II				3	3	2	0
5	CVL 490	Project III				5	0	0	5



**Pokhara University**  
**Bachelor of Electronics and Communication Engineering, 2011**

Year I		Semester I		<b>Concurrent Registration Course</b>	<b>Prerequisite Course</b>	<b>Credit</b>	<b>Lecture</b>	<b>Tutorial</b>	<b>Practical</b>
<b>S. N.</b>	<b>Course Code</b>	<b>Subject</b>							
1	MTH 112	Engineering Mathematics I				3	3	2	0
2	CHM 111	Chemistry				4	4	1	2
3	CMP 113	Programming in C				3	3	0	3
4	ENG 111	Communication Techniques				2	2	2	1
5	MEC 110	Mechanical Workshop				1	0	0	3
6	ELE 110	Basic Electrical Engineering				3	3	1	2

Year I		Semester II		<b>Concurrent Registration Course</b>	<b>Prerequisite Course</b>	<b>Credit</b>	<b>Lecture</b>	<b>Tutorial</b>	<b>Practical</b>
<b>S. N.</b>	<b>Course Code</b>	<b>Subject</b>							
1	MTH 114	Engineering Mathematics II		MTH 112		3	3	2	0
2	PHY 111	Physics				4	4	2	2
3	MEC 120	Engineering Drawing				2	0	0	6
4	CMP 115	Object Oriented Programming in C++				3	3	1	3
5	MEC 111	Thermal Science				2	2	1	2
6	MEC 130	Applied Mechanics I				3	3	2	0

Year II		Semester III		<b>Concurrent Registration Course</b>	<b>Prerequisite Course</b>	<b>Credit</b>	<b>Lecture</b>	<b>Tutorial</b>	<b>Practical</b>
<b>S. N.</b>	<b>Course Code</b>	<b>Subject</b>							
1	MTH 212	Engineering Mathematics III		MTH 114	MTH 112	3	3	2	0
2	ELX 212	Logic Circuits				3	3	1	3
3	ELX 220	Electromagnetic Field and Waves				3	3	1	0
4	ELE 211	Network Theory		ELE 110		3	3	1	2
5	ELX 210	Electronic Devices				3	3	1	2
6	ELE 210	Electrical Engineering Materials				2	2	2	0

Year II		Semester IV		<b>Concurrent Registration Course</b>	<b>Prerequisite Course</b>	<b>Credit</b>	<b>Lecture</b>	<b>Tutorial</b>	<b>Practical</b>
<b>S. N.</b>	<b>Course Code</b>	<b>Subject</b>							
1	MTH 214	Engineering Mathematics IV		MTH 212	MTH 114	3	3	2	0
2	ELX 231	Instrumentation		ELE 211		3	3	1	2
3	ELX 214	Electronic Circuits		ELX 210		3	3	1	2
4	ELX 230	Microprocessors				3	3	1	2
5	MTH 230	Numerical Methods				3	3	1	3
6	ELX 290	Project I				1	0	0	2

Year III		Semester V		<b>Concurrent Registration Course</b>	<b>Prerequisite Course</b>	<b>Credit</b>	<b>Lecture</b>	<b>Tutorial</b>	<b>Practical</b>
<b>S. N.</b>	<b>Course Code</b>	<b>Subject</b>							
1	ELE 322	Control Systems				3	3	1	2
2	ELX 312	Embedded Systems		ELX 230		3	3	1	2
3	CMM 310	Signals and Systems				3	3	1	2
4	CMP 241	Computer Graphics				3	3	1	2
5	ELX 315	Integrated Digital Electronics		ELX 214	ELX 210	3	3	1	2
6	MTH 220	Probability and Statistics				3	3	2	0

Year III		Semester VI		<b>Concurrent Registration Course</b>	<b>Prerequisite Course</b>	<b>Credit</b>	<b>Lecture</b>	<b>Tutorial</b>	<b>Practical</b>
<b>S. N.</b>	<b>Course Code</b>	<b>Subject</b>							
1	ELX 316	Industrial Electronics and Drives				3	3	0	2
2	CMM 330	Analog Communication		CMM 310		3	3	1	2
3	ELX 313	Filter Design			ELE 211	3	3	0	2
4	CMP 333	Computer Organization				3	3	1	2
5	ECO 411	Engineering Economics				3	3	2	0
6	---	Elective I				3			

Year IV		Semester VII		<b>Concurrent Registration Course</b>	<b>Prerequisite Course</b>	<b>Credit</b>	<b>Lecture</b>	<b>Tutorial</b>	<b>Practical</b>
<b>S. N.</b>	<b>Course Code</b>	<b>Subject</b>							
1	ELE 360	Research Methodology				2	2	1	0
2	ELX 420	Electromagnetic Propagation & Antenna				3	3	1	2
3	CMM 440	Digital Communication		CMM 330		3	3	1	2
4	CMP 335	Computer Networks				3	3	0	2
5	CMM 441	Digital Signal Processing				3	3	0	2
6	---	Elective II				3			
7	ELX 390	Project II				2	0	0	2

Year IV		Semester VIII		<b>Concurrent Registration Course</b>	<b>Prerequisite Course</b>	<b>Credit</b>	<b>Lecture</b>	<b>Tutorial</b>	<b>Practical</b>
<b>S. N.</b>	<b>Course Code</b>	<b>Subject</b>							
1	MGT 321	Organization and Management				2	2	0	0
2	CMM 411	Telecommunications		ELX 420		3	3	1	0
3	CMM 421	Wireless Communication Technology				3	3	1	2
4	ELX 460	Professional Ethics in Engineering				2	2	0	0
5	---	Elective III				3			
6	ELX 490	Project III				4	0	0	4



**Pokhara University**  
**Bachelor of Electrical and Electronics Engineering, 2011**

Year I		Semester I	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	MTH 112	Engineering Mathematics I			3	3	2	0
2	PHY 111	Physics			4	4	2	2
3	MEC 111	Thermal Science			2	2	1	2
4	MEC 120	Engineering Drawing			2	0	0	6
5	CMP 113	Programming in C			3	3	0	3
6	ELE 110	Basic Electrical Engineering			3	3	1	2

Year I		Semester II	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	MTH 114	Engineering Mathematics II	MTH 112		3	3	2	0
2	CHM 111	Chemistry			4	4	1	2
3	CMP 115	Object Oriented Programming in C++			3	3	1	3
4	ENG 111	Communication Techniques			2	2	2	1
5	MEC 110	Mechanical Workshop			1	0	0	3
6	MEC 130	Applied Mechanics I			3	3	2	0

Year II		Semester III	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	MTH 212	Engineering Mathematics III	MTH 114	MTH 112	3	3	2	0
2	ELE 210	Electrical Engineering Materials			2	2	2	0
3	ELE 211	Network Theory	ELE 110		3	3	1	2
4	ELX 212	Logic Circuits			3	3	1	3
5	ELX 210	Electronic Devices			3	3	1	2
6	ELX 220	Electromagnetic Field and Waves			3	3	1	0

Year II		Semester IV	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	MTH 214	Engineering Mathematics IV	MTH 212	MTH 114	3	3	2	0
2	MTH 230	Numerical Methods			3	3	1	3
3	ELX 231	Instrumentation	ELE 211		3	3	1	2
4	ELX 214	Electronic Circuits	ELX 210		3	3	1	2
5	ELX 230	Microprocessors			3	3	1	2
6	ELE 220	Electrical Machines			3	3	1	2

Year III		Semester V	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	MGT 321	Organization and Management			2	2	0	0
2	ELE 320	Advanced Electrical Machines	ELE 220		3	3	1	2
3	CMM 310	Signals and Systems			3	3	1	2
4	ELE 330	Transmission and Distribution			3	3	2	0
5	ELE 322	Control Systems			3	3	1	2
6	MTH 220	Probability and Statistics			3	3	2	0

Year III		Semester VI	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	ELX 310	Power Electronics		ELX 214	3	3	1	2
2	ELE 333	Power System Analysis			3	3	1	2
3	CMM 312	Communication System Engineering			3	3	1	1
4	ELE 331	Power Plant Equipment			3	3	1	0
5	ELE 332	Switch Gear and Protection	ELE 320		3	3	1	2
6	ELE 360	Research Methodology			2	2	1	0

Year IV		Semester VII	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	ECO 411	Engineering Economics			3	3	2	0
2	ELE 430	Transmission Line Design	ELE 333		3	3	0	2
3	ELE 420	Machine Design			3	2	2	0
4	ELX 430	Advanced Instrumentation		ELX 231	3	3	1	2
5	---	Elective I			3			
6	ELE 390	Project I			1	0	0	2

Year IV		Semester VIII	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	ELE 431	Utilization of Electrical Power			3	3	1	0
2	ELX 460	Professional Ethics in Engineering			2	2	0	0
3	ELE 433	Power Plant Design			3	3	1	0
4	ELE 432	High Voltage Engineering			3	3	1	0
5	---	Elective II			3			
6	ELE 490	Project II			4	0	0	4



Year I		Semester I	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject						
1	MTH 112	Engineering Mathematics I			3	3	2	0
2	CHM 111	Chemistry			4	4	1	2
3	ENG 111	Communication Techniques			2	2	2	1
4	CMP 113	Programming in C			3	3	0	3
5	ELE 110	Basic Electrical Engineering			3	3	1	2
6	MEC 110	Mechanical Workshop			1	0	0	3

Year I		Semester II	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject						
1	MTH 114	Engineering Mathematics II	MTH 112		3	3	2	0
2	PHY 111	Physics			4	4	2	2
3	MEC 120	Engineering Drawing			2	0	0	6
4	CMP 115	Object Oriented Programming in C++			3	3	1	3
5	MEC 111	Thermal Science			2	2	1	2
6	MEC 130	Applied Mechanics I			3	3	2	0

Year II		Semester III	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject						
1	MTH 212	Engineering Mathematics III	MTH 114	MTH 112	3	3	2	0
2	CMP 225	Data Structure and Algorithms	CMP 113		3	3	1	3
3	ELE 210	Electrical Engineering Materials			2	2	2	0
4	ELE 211	Network Theory	ELE 110		3	3	1	2
5	ELX 211	Electronics Devices and Circuits			3	3	1	2
6	ELX 212	Logic Circuits			3	3	1	3

Year II		Semester IV	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject						
1	MTH 214	Engineering Mathematics IV	MTH 212	MTH 114	3	3	2	0
2	ELX 231	Instrumentation	ELE 211		3	3	1	2
3	CMP 226	Database Management Systems			3	3	1	3
4	CMP 211	Programming Technology			3	3	1	2
5	ELX 230	Microprocessors			3	3	1	2
6	CMP 290	Project I			1	0	0	3

Year III		Semester V	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject						
1	MTH 230	Numerical Methods			3	3	1	3
2	MTH 220	Probability and Statistics			3	3	2	0
3	CMP 330	Operating Systems			3	3	0	2
4	CMP 332	Computer Architecture	ELX 212	3	3	1	1	
5	CMP 241	Computer Graphics			3	3	1	2
6	CMP 326	Theory of Computation			3	3	1	0

Year III		Semester VI	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject						
1	CMP 350	Simulation and Modeling			3	3	1	3
2	CMM 340	Data Communication			3	3	1	2
3	CMP 320	Object Oriented Software Engineering			3	3	1	2
4	ELX 312	Embedded Systems	ELX 230		3	3	1	2
5	---	Elective I			3			
6	CMP 390	Project II			2	0	0	4

Year IV		Semester VII	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject						
1	ECO 411	Engineering Economics			3	3	2	0
2	CMP 441	Image Processing & Pattern Recognition			3	3	1	2
3	CMP 455	Artificial Intelligence			3	3	1	2
4	CMP 335	Computer Networks			3	3	0	2
5	CMP 483	ICT Project Management			3	3	1	0
6	---	Elective II			3			

Year IV		Semester VIII	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject						
1	CMM 442	Digital Signal Analysis and Processing			3	3	1	2
2	CMP 484	Social and Professional Issues in IT			2	2	1	0
3	MGT 321	Organization and Management			2	2	0	0
4	CMP 481	Information Systems			3	3	0	2
5	---	Elective III			3			
6	CMP 490	Project III			5	0	0	5



Year I		Semester I						
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	MTH 112	Engineering Mathematics I			3	3	2	0
2	PHY 111	Physics			4	4	2	2
3	ENG 111	Communication Techniques			2	2	2	1
4	CMP 110	Fundamentals of IT			2	2	2	0
5	CMP 113	Programming in C			3	3	0	3
6	CMP 114	Problem Solving Techniques			3	3	1	0

Year I		Semester II							
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical	
1	MTH 114	Engineering Mathematics II	MTH 112		3	3	2	0	
2	ELX 212	Logic Circuits			3	3	1	3	
3	MTH 130	Mathematical Foundation of Computer Science			3	3	1	0	
4	MEC 120	Engineering Drawing			2	0	0	6	
5	CMP 115	Object Oriented Programming in C++			3	3	1	3	
6	CMP 213	Web Technology			3	3	0	3	

Year II		Semester III						
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	MTH 212	Engineering Mathematics III	MTH 114	MTH 112	3	3	2	0
2	CMP 220	Software Engineering Fundamentals			3	3	0	3
3	CMP 225	Data Structure and Algorithms	CMP 113		3	3	1	3
4	MTH 221	Probability and Queuing Theory			2	2	2	0
5	CMP 212	Programming in Java			3	3	0	3
6	CMP 214	Microprocessor and Assembly Language Programming	ELX 212		3	3	1	3

Year II		Semester IV						
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	MTH 230	Numerical Methods			3	3	1	3
2	CMP 241	Computer Graphics			3	3	1	2
3	CMP 334	Computer Organization and Architecture		ELX 212	3	3	1	2
4	CMP 226	Database Management Systems			3	3	1	3
5	CMP 321	Object Oriented Design and Modeling through UML			3	3	1	3
6	CMP 290	Project I			1	0	0	3

Year III		Semester V							
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical	
1	CMP 331	Applied Operating Systems			3	3	0	3	
2	CMP 350	Simulation and Modeling			3	3	1	3	
3	CMP 457	Artificial Intelligence and Neural Networks			3	3	0	3	
4	MGT 321	Organization and Management			2	2	0	0	
5	CMP 325	Analysis and Design of Algorithms		CMP 225	3	3	1	3	
6	CMP 311	System Programming			3	3	0	3	

Year III		Semester VI						
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	CMP 335	Computer Networks			3	3	0	2
2	CMP 312	Principles of Programming Languages			3	3	0	1
3	ECO 411	Engineering Economics			3	3	2	0
4	CMP 322	Object Oriented Software Development			3	3	0	2
5	CMP 341	Multimedia Systems			3	3	0	3
6	CMP 390	Project II			2	0	0	4

Year IV		Semester VII						
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	CMP 430	Real Time Systems	CMP 331	MTH 221	3	3	0	3
2	CMP 435	Distributed Systems			3	3	1	2
3	CMP 480	Enterprise Application Development			3	3	1	2
4	CMP 441	Image Processing & Pattern Recognition			3	3	1	2
5	CMP 421	Software Testing, Verification, Validation and Quality Assurance			3	3	1	2
6	---	Elective I			3			

Year IV		Semester VIII						
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	CMP 436	Network Programming	CMP 335		3	3	0	2
2	CMP 420	Software Project Management			3	3	1	0
3	---	Elective II			3			
4	CMP 490	Project III			5	0	0	5



**Pokhara University**  
**Bachelor of Engineering in Information Technology**

Year I		Semester I						
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	MTH 112	Engineering Mathematics I			3	3	2	0
2	PHY 111	Physics			4	4	2	2
3	ENG 111	Communication Techniques			2	2	2	0
4	CMP 114	Problem Solving Techniques			3	3	1	0
5	ELE 110	Basic Electrical Engineering			3	3	1	2
6	CMP 113	Programming in C			3	3	0	3

Year I		Semester II						
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	MTH 114	Engineering Mathematics II	MTH 112		3	3	2	0
2	ELE 211	Network Theory	ELE 110		3	3	1	2
3	MTH 130	Mathematical Foundation of Computer Science			3	3	1	0
4	ELX 210	Electronic Devices			3	3	1	2
5	MEC 120	Engineering Drawing			2	0	0	6
6	CMP 115	Object Oriented Programming in C++			3	3	1	3

Year II		Semester III		Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
S. N.	Course Code	Subject							
1	MTH 212	Engineering Mathematics III		MTH 114	MTH 112	3	3	2	0
2	ELX 212	Logic Circuits				3	3	1	3
3	CMP 225	Data Structure and Algorithms		CMP 113		3	3	1	3
4	MTH 221	Probability and Queuing Theory				2	2	2	0
5	CMP 213	Web Technology				3	3	0	3
6	ELX 213	Electronic Circuit and Instrumentation		ELX 210		3	3	1	2

Year II		Semester IV						
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	MTH 214	Engineering Mathematics IV		MTH 114	3	3	2	0
2	CMP 214	Microprocessor and Assembly Language Programming	ELX 212		3	3	1	3
3	CMP 212	Programming in JAVA			3	3	0	3
4	CMP 226	Database Management Systems			3	3	1	3
5	CMP 220	Software Engineering Fundamentals			3	3	0	3
6	CMP 290	Project I			1	0	0	3

Year III		Semester V						
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	CMP 331	Applied Operating Systems			3	3	0	3
2	MTH 230	Numerical Methods			3	3	1	3
3	CMP 334	Computer Organization and Architecture		ELX 212	3	3	1	2
4	MGT 321	Organization and Management			2	2	0	0
5	CMM 311	Signals, Systems & Processing			3	3	0	2
6	CMM 313	Principles of Communication	ELE 211		3	3	0	2

Year III		Semester VI						
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	CMP 241	Computer Graphics			3	3	1	2
2	CMP 335	Computer Networks			3	3	0	2
3	CMP 456	Intelligent Systems			3	3	0	2
4	CMP 481	Information Systems			3	3	0	2
5	CMP 321	Object Oriented Design and Modeling through UML			3	3	1	3
6	CMP 390	Project II			2	0	0	4

Year IV		Semester VII						
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	CMP 341	Multimedia Systems			3	3	0	3
2	CMP 483	ICT Project Management			3	3	1	0
3	CMP 482	Business process and IT Strategy			2	2	0	0
4	CMP 436	Network Programming	CMP 335		3	3	0	2
5	CMM 411	Telecommunications		CMM 313	3	3	1	0
6	---	Elective I			3			

Year IV		Semester VIII						
S. N.	Course Code	Subject	Concurrent Registration Course	Prerequisite Course	Credit	Lecture	Tutorial	Practical
1	CMM 420	Mobile and Wireless Communication			3	3	1	0
2	ECO 411	Engineering Economics			3	3	2	0
3	CMP 484	Social and professional Issues in IT			2	2	1	0
4	---	Elective II			3			
5	CMP 490	Project III			5	0	0	5

