

Table 9: Course Distribution for each year and each Semester

No.	Course Code	Course Title	ECTS	Cr. Hrs.	Lec. Hrs	Lab. Hrs	Tut. Hrs
1.	Math1011	Mathematics for Natural Science	5	3	3	0	2
2.	FLEn1011	Communicative English Language Skills I	5	3	3	0	0
3.	Phys1011	General Physics	5	3	2	1	2
4.	Psch1011	General Psychology	5	3	3	0	0
5.	LoCT1011	Critical Thinking	5	3	3	0	0
6.	SpSc1011	Physical Fitness	0	P/F	2	0	0
7.	GeES1011	Geography of Ethiopia and the Horn	5	3	3	0	0
Sub Total			30	18			

1. Year 1 Semester 1

No.	Course Code	Course Title	ECTS	Cr. Hrs.	Lec. Hrs.	Lab. Hrs.	Tut . Hrs
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2. Year 1 Semester 2

1.	FLEn1012	Communicative English Language Skills II	5	3	3	0	0
2.	Anth1012	Social Anthropology	3	2	2	0	0
3.	Math1041	Applied Mathematics I	5	3	3	0	0
4	Econ- 1011	Economics	5	3	3	0	0
5	EmTe1012	Introduction to Emerging Technologies	5	3	3	0	0
6	MCiE1012	Moral and Civic Education	3	2	2	0	0
7	Chem 1012	General Chemistry	5	3	2	3	1
	Sub Total		31	19			

3. Year 2 Semester 1

No.	Course Code	Course Title	ECTS	Cr. Hrs.	Lec. Hrs.	Lab. Hrs.	Tut. Hrs.
1.	EENG2041	Digital Logic Design	5	3	2	3	0
2.	CoSc2051	Object Oriented Programming	5	3	2	3	2
3.	MATH2011	Linear Algebra	5	3	3	0	1
4.	CoSc2041	Fundamentals of Database Systems	5	3	2	3	2
7	CoSc1012	Computer programming	5	3	2	3	1
5.	STAT2015	Probability and Statistics	5	3	3	0	1
6.	SINE2011	Inclusiveness	4	2	2	0	0
Sub Total			34	20			

4. Year 2 Semester 2

No.	Course Code	Course Title	ECTS	Cr. Hrs.	Lec. Hrs.	Lab. Hrs.	Tut. Hrs.
1.	CoSc2032	Data Communication and Computer Networks	5	3	2	3	2
2.	CoSc2042	Advanced Database Systems	5	3	2	3	2
3.	MATH2082	Numerical Analysis	5	3	2	3	0
4.	MATH2052	Discrete Mathematics and Combinatorics	5	3	3	0	0
5.	CoSc2092	Data Structures and Algorithms	5	3	2	3	2
6.	CoSc2022	Computer organization and Architecture	5	3	3	0	1
Sub Total			30	18			

No.	Course Code	Course Title	ECT S	Cr. Hrs.	Lec. Hrs.	Lab. Hrs.	Tut. Hrs.
1.	CoSc3023	Operating Systems	5	3	2	3	2
2.	CoSc3081	Web programming	7	4	3	3	1
3.	CoSc3053	Java Programming	5	3	2	3	2
4.	CoSc3061	Software Engineering	5	3	3	0	2
5.	CoSc3101	Automata and Complexity Theory	5	3	3	0	2
6.	CoSc3025	Microprocessor and Assembly Language Programming	5	3	2	3	1
7.	IRGI3021	Global Trends	4	2	2	0	0
Sub Total			36	21			

5. Year 3 Semester 1

6. Year 3 Semester 2

No.	Course Code	Course Title	ECT S	Cr. Hrs.	Lec. Hrs.	Lab. Hrs.	Tut. Hrs.
1.	CoSc3034	Wireless Communication and Mobile Computing	5	3	2	3	1
2.	CoSc3112	Introduction to Artificial Intelligence	5	3	2	3	2
3.	CoSc3094	Design and Analysis of Algorithms	5	3	3	0	0
4.	CoSc3026	Real Time and Embedded Systems	5	3	2	3	2
5.	CoSc3072	Computer Graphics	5	3	2	3	1
6.	CoSc3122	Industrial Practice	3	2	0	0	0
4	MGMT4102	Entrepreneurship & Business Development	5	3	3	0	0

Sub Total	33	20			
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7. Year 4 Semester 1

No.	Course Code	Course Title	EC TS	Cr.H rs.	Lec. Hrs.	Lab. Hrs.	Tut. Hrs.
1.	CoSc4035	Computer Security	5	3	2	3	1
2.	CoSc4113	Computer Vision and Image Processing	5	3	2	3	2
3.	CoSc4123	Research Methods in Computer Science	3	2	2	0	0
4.	CoScXXXX	Elective I	5	3	2	3	1
5.	CoSc4103	Compiler Design	5	3	2	3	2
6.	CoSc4125	Final Year Project I	5	3	0	0	0
Sub Total			28	17			

8. Year 4 Semester 2

No.	Course Code	Course Title	EC TS	Cr.H rs.	Lec. Hrs.	Lab. Hrs.	Tut. Hrs.
1.	CoSc4036	Network and System Administration	5	3	2	3	1
2.	CoSc4038	Introduction to Distributed Systems	5	3	2	3	2
3.	CoSc4132	Selected Topics in Computer Science	5	3	3	0	0
4.	CoScXXXX	Elective II	5	3	2	3	1
5.	CoSc4126	Final Year Project II	5	3	0	0	0
Sub Total			25	15			