

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Scheme (Third Year)- 5th Semester

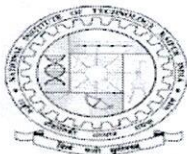
National Institute of Technology Raipur						
Course of Study and Scheme of Examination			B. Tech. 5th Semester			Branch: CSE
S. No.	Subject Code	Subject Name	Periods per Week			Credits
			L	T	P	
1	Program Core (CS105101CS)	Compiler Design	3	1	0	4
2	Program Core (CS105102CS)	Database Management System	3	1	0	4
3	Program Core (CS105103CS)	Operating System	3	1	0	4
4	Program Elective (CS1052XXCS)	Elective – I	3	0	0	3
5	Open Elective (CS1053XXCS)	Open Elective - I	3	0	0	3
6	Laboratory (CS105401CS)	Database Management System Lab	0	0	2	1
7	Laboratory (CS105402CS)	Operating System and Compiler Lab	0	0	2	1
8	Internship (CS105701CS)	Summer Internship I	0	0	2	1
Total Credits						21

Program Elective -I		
S. No.	Subject Code	Subject Name
1	CS105201CS	Advanced Data Structure
2	CS105202CS	Advanced computer Architecture
3	CS105203CS	Computer Graphics
4	CS105204CS	Embedded system

Open Elective -I		
S. No.	Subject Code	Subject Name
1	CS105301CS	Web Technology
2	CS105302CS	Data Science
3	CS105303CS	Advanced Java Technologies

Signature of DAC Members:

Name of DAC Members	Signature	Name of DAC Members	Signature
Prof.(Dr.) Prasanta K. Jana (External Academia Expert)		Dr. Pradeep Singh (Chairperson)	
		Dr. Aakanksha Sharaff (Convener)	
Mr. Praveen Choudhary (External Industry Expert)		Dr. N.K. Nagwani (Member)	
		Dr. Dilip Singh Sisodia (Member)	
Mr. Tarachand Bhawnani (External Industry Expert)		Mr. Shashwat Awasthi Student Representative (B.Tech. 6 th Semester)	
		Ms. Harshita Sharma Student Representative (B.Tech. 8 th Semester)	
Dr. (Mrs.) Kesri Verma (External Member)			



राष्ट्रीय प्रौद्योगिकी संस्थान रायपुर
NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
(Institute of National Importance)
G. E. Road, Raipur – 492010 (CG)

Phone: (0771) 225 42 00
Fax: (0771) 225 46 00
Email: director.nitra@rediffmail.com
Website: www.nitr.ac.in

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Scheme (Third Year)- 6th Semester

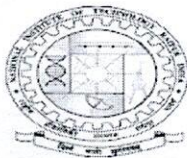
National Institute of Technology Raipur						
Course of Study and Scheme of Examination			B. Tech. 6th Semester			Branch: CSE
S. No.	Subject Code	Subject Name	Periods per Week			Credits
			L	T	P	
1	Program Core (CS106101CS)	Data Warehousing and Data Mining	3	1	0	4
2	Program Core (CS106102CS)	Cryptography and Network Security	3	1	0	4
3	Program Core (CS106103CS)	Artificial Intelligence & Expert System	3	1	0	4
4	Program Elective (CS1063XXCS)	Elective – II	3	0	0	3
5	Open Elective (CS1063XXCS)	Open Elective -II	3	0	0	3
6	Laboratory (CS106401CS)	Data Warehousing and Data Mining & AI lab	0	0	2	1
7	Laboratory (CS106402CS)	Cryptography and Network Security Lab	0	0	2	1
Total Credits						20

Program Elective -II		
S. No.	Subject Code	Subject Name
1	CS106201CS	Network Programming
2	CS106202CS	Advanced Algorithms
3	CS106203CS	Computer Vision
4	CS106204CS	Soft Computing

Open Elective- II		
S. No.	Subject Code	Subject Name
1	CS106301CS	Cloud Computing
2	CS106302CS	Applied Machine Learning
3	CS106303CS	E- Commerce
4	CS106304CS	Information Retrieval

Signature of DAC Members:

Name of DAC Members	Signature	Name of DAC Members	Signature
Prof.(Dr.) Prasanta K. Jana (External Academia Expert)		Dr. Pradeep Singh (Chairperson)	
		Dr. Aakanksha Sharaff (Convener)	
Mr. Praveen Choudhary (External Industry Expert)		Dr. N.K. Nagwani (Member)	
		Dr. Dilip Singh Sisodia (Member)	
Mr. Tarachand Bhawnani (External Industry Expert)		Mr. Shashwat Awasthi Student Representative (B.Tech. 6 th Semester)	
		Ms. Harshita Sharma Student Representative (B.Tech. 8 th Semester)	
Dr. (Mrs.) Kesri Verma (External Member)			



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Scheme (Fourth Year) -7th Semester

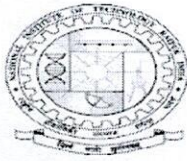
National Institute of Technology Raipur						
Course of Study and Scheme of Examination			B. Tech. 7th Semester			Branch: CSE
S. No.	Subject Code	Subject Name	Periods per Week			Credits
			L	T	P	
1	Program Core (CS107101CS)	Distributed Systems	3	1	0	4
2	Program Elective (CS1072XXCS)	Elective - III	3	0	0	3
3	Program Elective (CS1072XXCS)	Elective - IV	3	0	0	3
4	Open Elective (CS1073XXCS)	Open Elective - III	3	0	0	3
6	Laboratory (CS107401CS)	Distributed Systems Lab	0	0	2	1
7	Project Work (CS107501CS)	Project Work	0	0	8	4
8	Internship (CS107701CS)	Summer Internship II	0	0	2	2
Total Credits						20

Program Elective III & IV		
S. No.	Subject Code	Subject Name
1	CS107201CS	Deep Learning
2	CS107202CS	Wireless Sensor Network
3	CS107203CS	Advanced Computer Vision
4	CS107204CS	Block Chain Technology
5	CS107205CS	Big Data Analytics

Open Elective- III		
S. No.	Subject Code	Subject Name
1	CS107301CS	Mobile Application Development
2	CS107302CS	Internet of Things
3	CS107303CS	Software Testing
4	CS107304CS	Software Metrics and Quality Management
5	CS107305CS	Advanced Machine Learning

Signature of DAC Members:

Name of DAC Members	Signature	Name of DAC Members	Signature
Prof.(Dr.) Prasanta K. Jana (External Academia Expert)		Dr. Pradeep Singh (Chairperson)	
		Dr. Aakanksha Sharaff (Convener)	
Mr. Praveen Choudhary (External Industry Expert)		Dr. N.K. Nagwani (Member)	
		Dr. Dilip Singh Sisodia (Member)	
Mr. Tarachand Bhawnani (External Industry Expert)		Mr. Shashwat Awasthi Student Representative (B.Tech. 6 th Semester)	
		Ms. Harshita Sharma Student Representative (B.Tech. 8 th Semester)	
Dr. (Mrs.) Kesri Verma (External Member)			



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Scheme (Fourth Year)- 8th Semester

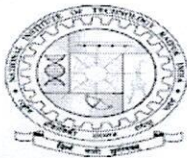
National Institute of Technology Raipur						
Course of Study and Scheme of Examination			B. Tech. 8th Semester			Branch: CSE
S. No.	Subject Code	Subject Name	Periods per Week			Credits
			L	T	P	
1	Program Elective (CS1082XXCS)	Elective - V	3	0	0	3
2	Program Elective (CS1082XXCS)	Elective - VI	3	0	0	3
3	Open Elective (CS1083XXCS)	Open Elective - IV	3	0	0	3
4	Open Elective (CS1083XXCS)	Open Elective - V	3	0	0	3
Total Credits						12

Program Elective -V & VI		
S. No.	Subject Code	Subject Name
1	CS108201CS	Software Project Management
2	CS108202CS	Design Patterns
3	CS108203CS	Real Time Systems
4	CS108204CS	Graph Theory
5	CS108205CS	Reinforcement Learning
6	CS108206CS	Advanced Database Management System

Open Elective -IV & V		
S. No.	Subject Code	Subject Name
1	CS108301CS	Cyber Laws and Rights
2	CS108302CS	Evolutionary Computing
3	CS108303CS	Intellectual Property Rights
4	CS108304CS	Quantum Computing
5	CS108305CS	Augmented Reality & Virtual Reality
6	CS108306CS	Advance AI and edge Computing

Signature of DAC Members:

Name of DAC Members	Signature	Name of DAC Members	Signature
Prof.(Dr.) Prasanta K. Jana (External Academia Expert)		Dr. Pradeep Singh (Chairperson)	
		Dr. Aakanksha Sharaff (Convener)	
Mr. Praveen Choudhary (External Industry Expert)		Dr. N.K. Nagwani (Member)	
		Dr. Dilip Singh Sisodia (Member)	
Mr. Tarachand Bhawnani (External Industry Expert)		Mr. Shashwat Awasthi Student Representative (B.Tech. 6 th Semester)	
		Ms. Harshita Sharma Student Representative (B.Tech. 8 th Semester)	
Dr. (Mrs.) Kesri Verma (External Member)			



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Scheme (Fourth Year)- 8th Semester for Students undergoing Major Internship Major Internship

National Institute of Technology Raipur						
Scheme (Eighth Semester for Students undergoing Major Internship)			B. Tech. 8th Semester			Branch: CSE
S. No.	Subject Code	Subject Name	Periods per Week			Credits
			L	T	P	
1	Open Elective (CS1083XXCS)	Open Elective - IV	3	0	0	3
2	Open Elective (CS1083XXCS)	Open Elective - V	3	0	0	3
3.	Major Internship					6 (4 [^] +2 ^{^^})
Total Credits						12

^Mid-semester evaluation report and field evaluation report to be submitted by industry

^^Report submission and presentation in the department

Open Elective -IV & V		
S. No.	Subject Code	Subject Name
1	CS108301CS	Cyber Laws and Rights
2	CS108302CS	Evolutionary Computing
3	CS108303CS	Intellectual Property Rights
4	CS108304CS	Quantum Computing
5	CS108305CS	Augmented Reality & Virtual Reality
6	CS108306CS	Advance AI and edge Computing

Signature of DAC Members:

Name of DAC Members	Signature	Name of DAC Members	Signature
Prof.(Dr.) Prasanta K. Jana (External Academia Expert)		Dr. Pradeep Singh (Chairperson)	
		Dr. Aakanksha Sharaff (Convener)	
Mr. Praveen Choudhary (External Industry Expert)		Dr. N.K. Nagwani (Member)	
		Dr. Dilip Singh Sisodia (Member)	
Mr. Tarachand Bhawnani (External Industry Expert)		Mr. Shashwat Awasthi Student Representative (B.Tech. 6 th Semester)	
		Ms. Harshita Sharma Student Representative (B.Tech. 8 th Semester)	
Dr. (Mrs.) Kesri Verma (External Member)			