

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.nitrr@rediffmail.com Website: www.nitrr.ac.in

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Scheme (Third Year)- 5th Semester

	Nati	onal Institute of Technol	ogy Raij	our			
	Course of Study and Scheme	of Examination	B. Tec	h. 5th S	emester	Branch: CSE	
			Peri	ods per			
S. No.	Subject Code	Subject Name	L	Т	Р	Credits	
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 Complier 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					

Name of DAC Members	Signature	Name of DAC Members	Signature
Prof.(Dr.) Prasanta K. Jana	Hana	Dr. Pradeep Singh (Chairperson)	Jes ,
(External Academia Expert)	Of.	Dr. Aakanksha Sharaff (Convener)	Right
Mr. Praveen Choudhary	Phandham	Dr. N.K. Nagwani (Member)	
(External Industry Expert)	(Triss)	Dr. Dilip Singh Sisodia (Member)	38
Mr. Tarachand Bhawnani	, ,	Mr. Shashwat Awasthi Student Representative (B.Tech. 6 th Semester)	Solwar
(External Industry Expert)	T. C. Bhowson	Ms. Harshita Sharma Student Representative (B.Tech. 8 th Semester)	Horseite Sharen
Dr. (Mrs.) Kesri Verma (External Member)			



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Scheme (Third Year)- 6th Semester

		National Institute of Techn	nology Ra	ipur		
	Course of Study and	B. Tech. 6th Semester			Branch: CSE	
			Periods per Week			
S. No.	Subject Code	Subject Name	L	T	P	Credits
1	Program Core (CS106101CS) Data Warehousing and Data Mining		3	1	0	4
2	Program Core Cryptography and Network (CS106102CS) Security		3	1	0	4
3	Program Core (CS106103CS)			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	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 Retrival					

Name of DAC Members	Signature	Name of DAC Members	Signature
Prof.(Dr.) Prasanta K. Jana	Bana	Dr. Pradeep Singh (Chairperson)	26
(External Academia Expert)		Dr. Aakanksha Sharaff (Convener)	As
Mr. Praveen Choudhary (External Industry Expert)	Chardham	Dr. N.K. Nagwani (Member) Dr. Dilip Singh Sisodia	8
(External fidustry Expert)		(Member)	73
Mr. Tarachand Bhawnani		Mr. Shashwat Awasthi Student Representative (B.Tech. 6 th Semester)	Sohrat
(External Industry Expert)	J. C. Bhownais	Ms. Harshita Sharma Student Representative (B.Tech. 8 th Semester)	Haridalita Electron
Dr. (Mrs.) Kesri Verma (External Member)			



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Scheme (Fourth Year) -7th Semester

1	Common of Standard	National Institute of Tec				D. I. COD
	Course of Study ar	nd Scheme of Examination	В. Те	ech. 7th S	emester	Branch: CSE
C			Per	riods per	Week	
S. No.	Subject Code	Subject Name	L	T	P	Credits
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	C\$107202CS	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					

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Prof.(Dr.) Prasanta K. Jana	Jeans	Dr. Pradeep Singh (Chairperson)	Sas
(External Academia Expert)	U	Dr. Aakanksha Sharaff (Convener)	AQ
Mr. Praveen Choudhary	Thankham	Dr. N.K. Nagwani (Member)	
(External Industry Expert)		Dr. Dilip Singh Sisodia (Member)	138
Mr. Tarachand Bhawnani	57 51: 30 5	Mr. Shashwat Awasthi Student Representative (B.Tech. 6 th Semester)	Fortunat
(External Industry Expert)		Ms. Harshita Sharma Student Representative (B.Tech. 8 th Semester)	Harding Blosen
Dr. (Mrs.) Kesri Verma (External Member)			



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Scheme (Fourth Year)-8th Semester

Course of Study and Scheme of Examination			B. Tech. 8th Semester			Branch: CSE
S. No.			Periods per Week			
	Subject Code	Subject Name	L	T	P	Credits
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		

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		

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Prof.(Dr.) Prasanta K. Jana	Pana	Dr. Pradeep Singh (Chairperson)	2mg
(External Academia Expert)	UF	Dr. Aakanksha Sharaff (Convener)	AL
Mr. Praveen Choudhary	Phardham	Dr. N.K. Nagwani (Member)	(Jak
(External Industry Expert)	(Bran-E)	Dr. Dilip Singh Sisodia (Member)	258
Mr. Tarachand Bhawnani		Mr. Shashwat Awasthi Student Representative (B.Tech. 6 th Semester)	Stoney
(External Industry Expert)	J. Bharrai	Ms. Harshita Sharma Student Representative (B.Tech. 8 th Semester)	A totalista Education
Dr. (Mrs.) Kesri Verma (External Member)			



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Scheme (Fourth Year)- 8th Semester for Students undergoing Major Internship Major Internship

Scheme (Eighth Semester for Students undergoing Major Internship)			B. Tech. 8th Semester			Branch: CSE
S.	Subject Code		Periods per Week			
No.		Subject Name	L	T	P	Credits
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		

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Prof.(Dr.) Prasanta K. Jana	Pana	Dr. Pradeep Singh (Chairperson)	Sur
(External Academia Expert)	Jan 1	Dr. Aakanksha Sharaff (Convener)	Mi
Mr. Praveen Choudhary	(Fhaudhar)	Dr. N.K. Nagwani (Member)	
(External Industry Expert)	The C	Dr. Dilip Singh Sisodia (Member)	188
Mr. Tarachand Bhawnani	000	Mr. Shashwat Awasthi Student Representative (B.Tech. 6 th Semester)	Johnson
(External Industry Expert)	T. C. Bhouna	Ms. Harshita Sharma Student Representative (B.Tech. 8 th Semester)	Hodeling Shower
Dr. (Mrs.) Kesri Verma (External Member)			