

## **MANDATORY DISCLOSURE**

### **I. NAME AND ADDRESS OF THE INSTITUTION**

Name	<b>School of Studies in Computer Science</b>		
Address	<b>Pt. Ravishankar Shukla University</b>		
District	<b>Raipur</b>		
PIN	<b>492010</b>		
State	<b>Chhattisgarh</b>		
STD Code	<b>0771</b>	Phone No:	<b>2262658</b>
Fax No.	<b>2262818</b>	E-Mail:	<b>comprsu@rediffmail.com</b>
Web site	<b>www.prsu.ac.in</b>		
Nearest Rly Station	<b>Raipur - Railway Station</b>	Distance in Kms (Towards)	<b>-05 Kms.</b>
Nearest Airport	<b>Raipur - Mana airport</b>	Distance in Kms (Towards)	<b>-12 Kms.</b>

### **II. NAME AND ADDRESS OF THE DIRECTOR**

Name	<b>Dr. Sanjay Kumar</b>				
Address	<b>Head School of Studies in Computer Science Pt. Ravishankar Shukla University- Raipur (C.G.) Pin Code - 492010</b>				
STD Code	<b>0771</b>	Phone No. (O) -	<b>2262658</b>	Fax No.	<b>2262818</b>
STD Code	-	Phone No. (R) -	<b>9827172100</b>	Fax No.	-
E-Mail	<b>sanraipur@rediffmail.com</b>		Mobile Phone	<b>98271-72100</b>	

### **III. NAME OF THE AFFILIATING UNIVERSITY**

Name	<b>Pt. Ravishankar Shukla University</b>		
Address	<b>Amanaka, GE Road. Raipur [CG]</b>		
Pin Code	<b>492010</b>	Period of Affiliation	
STD Code	<b>0771</b>	Phone No.	<b>2262540, 2262318</b>
Fax No.	<b>2262818</b>	E-Mail	<b>registrar.prsu@gov.in</b>

**IV. GOVERNANCE** ⌚ **Administration** : School of Studies in Computer Science is one of the University Teaching Department (UTD) of Pt. Ravishankar Shukla University, Raipur (C.G.). The Executive Council is the apex body of the university under the Chairmanship of Vice-Chancellor as per the Chhattisgarh Vishvavidyalaya Adhiniam for the administration and policy decision.

⌚ **Academics** : The Academic Council is responsible for all the decision relating to

academic matter of the university. The Board of Studies of concerned subject decides the matters related to course curriculum.

## V. PROGRAMME

### 🕒 Name of the Programmes approved by the AICTE

- a.  Name – **Master of Computer Application**
- b.  Number of Seats – **60**
  - Duration – **Three Year**
  - Cut of mark/ rank for admission during the last three years

Year	Cut off Mark / Rank
2015	125
2014	629
2013	184

- c.  Fee -Tution Fees -Rs. 21750/- (Per Year) -University Fees – Rs. 2050/- (Per Year)
- d.  Placement Facilities - Full time Training & Placement Officer has been appointed to coordinate the placement activities. Proper guidance is available regarding jobs in leading companies, final semester projects and placements.
- e.  Campus Placement in three years with minimum salary, maximum salary and average salary.  
Most of the M.C.A. students get placement in the Companies in which they complete their Final Semester projects. Some of the companies in which the students are working are: TCS Mumbai, Price water house coopers (USA), TISCO Jamshedpur, CMC Mumbai, Infosys Bangalore, Ministry of Defence (Govt. of India New Delhi ). Maximum Salary: 2.25 lakhs per annum  
Minimum Salary: 1.20 lakh p.a. Average Salary: 1.45 lakh p.a.

- 🕒 Name and duration of programme(s) having affiliation/collaboration with Foreign University(s)/ institution(s) and being run in the same Campus along with status of their AICTE approval. If there is foreign collaboration give the following details:  
**Not Applicable**

## VI. FACULTY

### 🕒 Permanent Faculty

S.No.	Name	Designation	Qualification
1.	Dr. Sanjay Kumar	Reader	B.E., M.E.(Computer Science & Engg.), Ph.D (Computer Science & Engg.).
2.	Dr. Vinod Kumar Patle	Sr. Lecturer	Ph.D., MCA , M. Sc. (Physics)
3	Rubi Kambo	Lecturer (Contract)	MCA, M.Tech.(CSE), SET

4	<b>Kaushal Banjare</b>	<b>Lecturer (Contract)</b>	<b>MCA, SET</b>
5	<b>Mr. Ramakant Prasad</b>	<b>Lecturer (Contract)</b>	<b>MCA, M.Phil.(CS), UGC NET</b>
6	<b>Mr. Rahul Singh</b>	<b>Lecturer (Contract)</b>	<b>BE, M.Tech(CS), UGC NET</b>
7	<b>Mr. Lokesh Rathore</b>	<b>Lecturer (Contract)</b>	<b>BE(CSE), M.Tech(SE), UGC NET</b>
8	<b>Mr. Deepak Kumar</b>	<b>Lecturer (Contract)</b>	<b>B.Sc., MCA, UGC NET</b>

### 🕒 Visiting Faculty

S.No.	Name	Qualification
1	<b>Dr. Samir Thakur</b>	<b>M.A.(Eng.), M.Phil.(Eng.), Ph.D.(Eng.)</b>
2	<b>Mr. Chinmay Giri</b>	<b>B.Sc., M.Sc.(Maths)</b>

### **VII. PROFILE OF DIRECTOR/PRINCIPAL WITH QUALIFICATION, TOTAL EXPERIENCE, AGE AND DURATION OF EMPLOYMENT AT THE INSTITUTE CONCERNED**

1. Name -**Dr. Sanjay Kumar**
2. Date of Birth -**13-03-1966**
3. Education Qualification-**(i)B.E. (Electrical Engg.) from Govt. Engineering College in 1988.**  
**(ii)M.E. (Computer Science & Engg.) from Motilal Nehru Regional Engineering College, Allahabad in 2000.**  
**(iii) Ph.D. (Computer Science & Engg.) from Ravishankar Shukla University, Raipur in 2005**
4. Work Experience  
Teaching : **21 Years**  
Research : **06 Years**  
Industry : **Nil**  
Others : **07**
5. Area of Specializations -**Parallel Computing, Computer Networking in Computer Science and Engineering**
6. Subject teaching at  
  
Under Graduate Level -**Computer Networking**  
  
Post Graduate Level -**Parallel Computing**



7. Research Guidance  
Master's -16  
Ph.D. -04 Registered  
No. of papers published in:

- National Journals : 06
- International Journals : 30
- Conferences - 29

8. Project Carried out : 02

9. Patents -Nil

10. Technology Transfer -Nil

11. Research Publications -

No. of Books published with details – 01 “Automatic Elephant Detection”

#### VIII. FEE

- ⌚ Detail of fee as approved by State fee Committee, for the institution. **Rs. 22050/-(Per Year)**
- ⌚ Time Schedule for payment of fee for the entire programme : **July- August**
- ⌚ No. of fee waivers granted with amount and name of students. : **Fellowship Reimbursement of the fee to the S.C., S.T. and O.B.C. category students.**
- ⌚ Number of scholarship offering by the institute, duration and amount.
- ⌚ Criteria for fee waivers/scholarship: **As per C.G. Govt. norms to the S.C., S.T. and O.B.C. category students.**
- ⌚ Estimated cost of Boarding and Lodging in Hostels.**Rs. 2000 App. (Per Month)**

#### IX. ADMISSION

- ⌚ **Number of seats sanction with the year of approval -60**

**Number of students admitted under various categories each year in three years**

Year	Gen	OBC	SC	ST
2016	25	24	03	08
2015	21	30	6	2
2014	21	29	3	7
2013	12	31	10	7

- ⌚ **Number of applications received during last two years for admission under Management Quota and number admitted. - Not Applicable**

## X. ADMISSION PROCEDURES

- ⌚ Mention the admission test being followed, name and address of the Test Agency and its URL (website): **The central Admission procedure by Directorate of Technical Education (C.G.)**
- ⌚ Number of seats allotted to different Test Qualified candidates separately [AIMCET/ CET/ (State conducted test/ University tests)/ Association conducted test]: **UR:30 , Sc: 9,ST: 13, OBC:8 Seats (Total : 60)**
- ⌚ Calendar for admission against management/ vacant seats- **No management quota.**

## XI. CRITERIA AND WEIGHTAGES FOR ADMISSION

- Describe each criteria with its respective weightages i.e. Admission Test, marks in qualifying examination etc.: **As per Chhattisgarh Government notification and by Directorate of Technical Education Chhattisgarh.**

## XII. APPLICATION FORM

- **As per Pre MCA examination organized by Chhattisgarh Government.**

## XIII. LIST OF APPLICANTS

- **Not Applicable.**

## XIV. RESULT OF ADMISSION UNDER MANAGEMENT SEATS/ VACANT SEATS

- **Not Applicable.**

## XV. INFORMATION ON INFRASTRUCTURE AND OTHER RESOURCES AVAILABLE

### LIBRARY

- ⌚ **Number of Library books/Titles/ Journals available**
  - 1379 Books having number of volumes '5' are Available.
- ⌚ **List of online National/ International Journal Subscribed**

### Computer Science Journals

<b>Sl. No</b>	<b>Name of Journal</b>	<b>Name of Publisher</b>
1	Acta Applicandae Mathematicae	Kluwer Online
2	Advances in Computational Mathematics	Kluwer Online
3	Annals of Mathematics and Artificial Intelligence	Kluwer Online
4	Annals of Operations Research	Kluwer Online
5	Annals of Software Engineering	Kluwer Online
6.	Applicable Algebra in Engineering, Communication and Computing	Springer Link
7	Applied Categorical Structures	Kluwer Online
8	Applied Intelligence	Kluwer Online
9	Archival Science	Kluwer Online
10	Archives and Museum Informatics	Kluwer Online
11	Artificial Intelligence and Law	Kluwer Online
12	Artificial Life and Robotics	Springer Link
13	Automated Software Engineering	Kluwer Online
14	Automation and Remote Control	Kluwer online
15	Autonomous Agents and Multi-Agent Systems	Kluwer Online
16	Autonomous Robots	Kluwer Online
17	Biological Cybernetics	Springer Link
18	Biomechanics and Modeling in Mechanobiology	Springer Link
19	BT Technology Journal	Kluwer Online
20	Cluster Computing	Kluwer Online
21	Cognition, Technology & Work	Springer Link
22	Combinatorica	Springer Link
23	Computational & Mathematical Organization Theory	Kluwer Online
24	Computational Mechanics	Springer Link

25	Computational Statistics	Springer Link
26	Computer Supported Cooperative Work (CSCW)	Kluwer Online
27	Computers and the Humanities	Kluwer Online
28	Computing	Springer Link
29	Computing and Visualization in Science	Springer Link
30	Constraints	Kluwer Online
31	Cybernetics and Systems Analysis	Kluwer Online
32	Data Mining and Knowledge Discovery	Kluwer Online
33	Design Automation for Embedded Systems	Kluwer Online
34	Designs, Codes and Cryptography	Kluwer Online
35	Discrete & Computational Geometry	Springer Link
36	Discrete Event Dynamic Systems	Kluwer Online
37	Distributed and Parallel Databases	Kluwer Online
38	Distributed Computing	Springer Link
39	Dynamics and Control	Kluwer Online
40	e & i Elektrotechnik und Informationstechnik	Springer Link
41	Education and Information Technologies	Kluwer Online
42	Electronic Commerce Research	Kluwer Online
43	Empirical Software Engineering	Kluwer Online
44	Engineering with Computers	Springer Link
45	Ethics and Information Technology	Kluwer Online
46	Formal Aspects of Computing	Springer Link
47	Formal Methods in System Design	Kluwer Online
48	Foundations of Computational Mathematics	Springer Link
49	Fuzzy Optimization and Decision Making	Kluwer Online
50	Genetic Programming and Evolvable Machines	Kluwer Online
51	Genetic Programming and Evolvable Machines	Kluwer Online
52	GeoInformatica	Kluwer Online
53	Grammars	Kluwer Online
54	Graphs and Combinatorics	Springer Link
55	Higher-Order and Symbolic Computation (formerly LISP and Symbolic Computation)	Kluwer Online
56	Informatics - FoRoyal Society of Chemistryhung and Entwicklung	Springer Link
57	Informatik-Spektrum	Springer Link
58	Information Retrieval	Kluwer Online
59	Information Systems Frontiers	Kluwer Online
60	Information Technology and Management	Kluwer Online
61	International Journal of Computer Vision	Kluwer Online
62	International Journal of Information Security	Springer Link
63	International Journal of Parallel Programming	Kluwer Online
64	International Journal of Speech Technology	Kluwer Online
65	International Journal on Digital Libraries	Springer Link
66	International Journal on Document Analysis and Recognition	Springer Link
67	International Journal on Software Tools for Technology Transfer	Springer Link
68	Journal of Algebraic Combinatorics	Kluwer Online
69	Journal of Automated Reasoning	Kluwer Online
70	Journal of Classification	Springer Link
71	Journal of Combinatorial Optimization	Kluwer Online
72	Journal of Computational Neuroscience	Kluwer Online
73	Journal of Cryptology	Springer Link
74	Journal of Dynamical and Control Systems	Kluwer Online
75	Journal of Electronic Testing	Kluwer Online
76	Journal of Global Optimization	Kluwer Online
77	Journal of Grid Computing	Kluwer Online

78	Journal of Heuristics	Kluwer Online
79	Journal of Intelligent and Robotic Systems	Kluwer Online
80	Journal of Logic, Language and Information	Kluwer Online
81	Journal of Mathematical Imaging and Vision	Kluwer Online
82	Journal of Mathematical Modelling and Algorithms	Kluwer Online
83	Journal of Network and Systems Management	Kluwer Online
84	Journal of Optimization Theory and Applications	Kluwer Online
85	Knowledge and Information Systems	Springer Link
86	Learning Environments Research	Kluwer Online
87	Linguistics and Philosophy	Kluwer Online
88	LISP and Symbolic Computation	Kluwer Online
89	Machine Learning	Kluwer Online
90	Machine Translation	Kluwer Online
91	Machine Vision and Applications	Springer Link
92	Mathematical Programming	Springer Link
93	MCSS Mathematics of Control, Signals and Systems	Springer Link
94	Microsystem Technologies	Springer Link
95	Minds and Machines	Kluwer Online
96	Mobile Networks and Applications	Kluwer Online
97	Multidimensional Systems and Signal Processing	Kluwer Online
98	Multimedia Systems	Springer Link
99	Multimedia Tools and Applications	Kluwer Online
100	Natural Computing	Kluwer Online
101	Natural Language & Linguistic Theory	Kluwer Online
	NETNOMICS: Economic Research and Electronic	Kluwer Online
102	Networking	
103	Neural Computing & Applications	Springer Link
104	Neural Processing Letters	Kluwer Online
105	New Generation Computing	Springer Link
106	Numerical Algorithms	Kluwer Online
107	Numerische Mathematik	Springer Link
108	Open Systems & Information Dynamics	Kluwer Online
109	Optical and Quantum Electronics	Kluwer Online
110	Optical Networks Magazine	Kluwer Online
111	Optimization and Engineering	Kluwer Online
112	Order	Kluwer Online
113	Pattern Analysis and Applications (PAA)	Springer Link
114	Personal and Ubiquitous Computing	Springer Link
115	Phenomenology and the Cognitive Sciences	Kluwer Online
116	Photonic Network Communications	Kluwer Online
117	Poiesis & Praxis	Springer Link
118	Problems of Information Transmission	Kluwer Online
119	Programming and Computer Software	Kluwer Online
120	Quantum Information Processing	Kluwer Online
121	Queueing Systems	Kluwer Online
122	Real-Time Systems	Kluwer Online
123	Requirements Engineering	Springer Link
124	Scientometrics	Kluwer Online
125	Soft Computing	Springer Link
126	Software and Systems Modeling (SoSyM)	Springer Link
127	Software Quality Journal	Kluwer Online
128	Spatial Cognition and Computation	Kluwer Online
129	Statistics and Computing	Kluwer Online
130	Telecommunication Systems	Kluwer Online
131	The Journal of Supercomputing	Kluwer Online
132	The Visual Computer	Springer Link
133	The VLDB Journal	Springer Link

134	Theoretical Chemistry Accounts	Springer Link
135	Theory of Computing Systems	Springer Link
136	Universal Access in the Information Society (UAIS)	Springer Link
137	User Modeling and User-Adapted Interaction	Kluwer Online
138	Virtual Reality	Springer Link
139	Wireless Networks	Kluwer Online
140	Wireless Personal Communications	Kluwer Online
141	World Wide Web	Kluwer Online

🕒 **E - Library facilities**

- Yes, Under UGC Inflibnet Scheme

**LABORATORY**

S.No.	Particulars	Availability	
1	No. of Computer Terminals	52	
2	Hardware specifications	Wipro Desktop Computer G31T-M 15, HP-Compaq 10, Wipro - WIV102 - 0162 08, IBM Thinkcentre P-IV 11, Compaq-AMD Athlon 8	
3	No. of terminals of LAN/WAN	36	
4	Relevant Legal Software	<i>Application</i>	<i>System</i>
		COBOL, BASIC, Turbo C & C++, Turbo PASCAL, Visual Studio Enterprise, Unify, Microsoft Office XP, Oracle 10 G, MATLAB, Java, VB .NET	Windows 98, Linux (Mandrake, Fedora, Turbo, Red Hat), Windows XP Professional, Windows 2000, Windows 2003 Server, Windows Vista, Windows Me.
5	Peripheral(s)/ Printers	02 HP Colour LaserJet, 09 Laserjet, 04-Deskjet, 03 Dot Matrix, 03 Scanners, OHP, 03-LCD Projector	
6	Internet Accessibility (in kbphs & hrs)	Internet Connectivity Through Leased Line 1 Gbps	

**COMPUTING FACILITIES:**

- ◆ Number and Configuration of Systems
  - **As Stated Above.**
- ◆ Total number of systems connected by LAN
  - **As Stated Above.**
- ◆ Total number of systems to WAN
  - **As Stated Above.**
- ◆ Internet bandwidth
  - **Internet Connectivity Through Leased Line 1 Gbps**
- ◆ Major software packages available
  - **As Stated Above.**
- ◆ Special purpose facilities available
  - **As Stated Above.**

Games and Sports Facilities: **Yes**

Extra Curriculum Activities: **Yes**

Soft Skill Development Facilities: **Yes, Communication skills subject is included in MCA-I Sem. Syllabus and Soft skills training sessions are organized from time to time.**



Number of Classrooms and size of each

Particulars	Available	Size
Class Room 1	Yes	36.81 sq.m.
Class Room 2	Yes	91.80 sq.m.
Class Room 3	Yes	91.80 sq.m.
Class Room 4	Yes	91.80 sq.m.
Class Room 5	Yes	91.80 sq.m.

Number of Tutorial rooms and size of each

Particulars	Available	Size
Tutorial Hall	Yes	146.44 sq.m.

Number of laboratories and size of each

Particulars	Available	Size
Laboratory 1	Yes	90.80 sq.m.
Laboratory 2	Yes	149.61 sq.m.

Number of drawing halls and size of each

Number of Computer Centres with capacity of each

Particulars	Available	Capacity
Sever Room	Yes	12.49 sq.m.

Central Examination Facility, Number of rooms and capacity of each. Teaching Learning process - [Work-Shop/ Seminar/ Refresher Course etc.](#)

**Curricula and syllabi for each of the programmes as approved by the University.**

**SCHEME OF TEACHING AND EXAMINATIONS 2016-2017**  
**MASTER OF COMPUTER APPLICATIONS**

FIRST SEMESTER

Subject Code	SUBJECTS	Teaching Load Per Week			Credit L+(T+P)/2	Examination Marks							
		L	T	P		Max. Marks				Min. Marks			
						Th	Ses	Pr	Total	Th	Ses	Pr	Total
MCA101	Object Oriented Programming With 'C++'	3	2	-	4	100	50	-	150	40	30	-	70
MCA102	Mathematical Foundations Of Computer Science	3	2	-	4	100	50	-	150	40	30	-	70
MCA103	Essentials of Information Technology	3	2	-	4	100	50	-	150	40	30	-	70
MCA104	Data Structure through algorithms With 'C'	3	2	-	4	100	50	-	150	40	30	-	70
MCA105	Communication Skill	3	2	-	4	100	50	-	150	40	30	-	70
MCA106	Programming Lab 'C++'	-	-	3x2	3	-	25	100	125	-	15	50	65
MCA107	Data Structure through Algorithms "Lab"	-	-	3x2	3	-	25	100	125	-	15	50	65
	<b>TOTAL</b>	15	10	12	26	500	300	200	<b>1000</b>	200	180	100	<b>480</b>

**SCHEME OF TEACHING AND EXAMINATIONS 2016-2017**  
**MASTER OF COMPUTER APPLICATIONS**

SECOND SEMESTER

Subject Code	SUBJECTS	Teaching Load Per Week			Credit L+(T+P)/2	Examination Marks							
		L	T	P		Max. Marks				Min. Marks			
						Th	Ses	Pr	Total	Th	Ses	Pr	Total
CA201	Program Based Numerical Analysis in C++	3	2	-	4	100	25	-	125	40	15	-	55
CA202	Computer System Architecture	3	2	-	4	100	25	-	125	40	15	-	55
CA203	RDBMS & ORACLE	3	2	-	4	100	25	-	125	40	15	-	55
CA204	Operating System	3	2	-	4	100	25	-	125	40	15	-	55
CA205	Financial Management & Accountancy	3	2	-	4	100	25	-	125	40	15	-	55
CA206	Programming Lab on MCA203	-	-	3x2	3	-	50	100	150	-	30	50	80
CA207	Programming Practice / Mini-Project	-	-	2	1	-	50	50	100	-	30	25	55
CA208	Common Software / Mini-Project	-	-	2	1	-	50	50	100	-	30	25	55
CA209	Seminar	-	-	2	1	-	25	-	25	-	15	-	15
	<b>TOTAL</b>	15	10	12	26	500	300	200	<b>1000</b>	200	180	100	<b>480</b>

**SCHEME OF TEACHING AND EXAMINATIONS 2016-2017**

**MASTER OF COMPUTER APPLICATIONS**

THIRD SEMESTER

Subject Code	SUBJECTS	Teaching Load Per Week			Credit L+(T+P)/2	Examination Marks							
		L	T	P		Max. Marks				Min. Marks			
						Th	Ses	Pr	Total	Th	Ses	Pr	Total
MCA301	Programming in VB & VC++	3	2	-	4	100	25	-	125	40	15	-	55
MCA302	Computer Network & Data Communication	3	2	-	4	100	25	-	125	40	15	-	55
MCA303	Operation Research	3	2	-	4	100	25	-	125	40	15	-	55
MCA304	A.I. & Expert System	3	2	-	4	100	25	-	125	40	15	-	55
MCA305	System Analysis Design & MIS	3	2	-	4	100	25	-	125	40	15	-	55
MCA306	Programming Lab VB/VC++	-	-	3x2	3	-	50	100	150	-	30	50	80
MCA307	Programming Practice / Mini-Project	-	-	2	1	-	50	50	100	-	30	25	55
MCA308	Common Software / Mini-Project	-	-	2	1	-	50	50	100	-	30	25	55
MCA309	Seminar	-	-	2	1	-	25	-	25	-	15	-	15
	<b>TOTAL</b>	15	10	12	26	500	300	200	<b>1000</b>	200	180	100	<b>480</b>

**SCHEME OF TEACHING AND EXAMINATIONS 2016-2017**  
**MASTER OF COMPUTER APPLICATIONS**

FOURTH SEMESTER

Subject Code	SUBJECTS	Teaching Load Per Week			Credit L+(T+P)/2	Examination Marks							
		L	T	P		Max. Marks				Min. Mark			
						Th	Ses	Pr	Total	Th	Ses	Pr	Total
MCA401	Programming in Java	3	2	-	4	100	25	-	125	40	15	-	55
MCA402	Software Engineering	3	2	-	4	100	25	-	125	40	15	-	55
MCA403	Interactive Computer Graphics	3	2	-	4	100	25	-	125	40	15	-	55
MCA404	Unix / Linux	3	2	-	4	100	25	-	125	40	15	-	55
MCA405	Elective : 1. Compiler Designing 2. Advanced Computer Architecture	3	2	-	4	100	25	-	125	40	15	-	55
MCA406	Programming Lab JAVA	-	-	3x2	3	-	50	100	150	-	30	50	80
MCA407	Programming Practice / Mini-Project	-	-	2	1	-	50	50	100	-	30	25	55
MCA408	Common Software / Mini-Project	-	-	2	1	-	50	50	100	-	30	25	55
MCA409	Seminar	-	-	2	1	-	25	-	25	-	15	-	15
	<b>TOTAL</b>	15	10	12	26	500	300	200	<b>1000</b>	200	180	100	<b>480</b>

**SCHEME OF TEACHING AND EXAMINATIONS 2016-2017**  
**MASTER OF COMPUTER APPLICATIONS**

FIFTH SEMESTER

Subject Code	SUBJECTS	Teaching Load Per Week			Credit L+(T+P)/2	Examination Marks							
		L	T	P		Max. Marks				Min. Marks			
						Th	Ses	Pr	Total	Th	Ses	Pr	Total
MCA501	Advanced Programming Tools <b>Java</b>	3	2	-	4	100	25	-	125	40	15	-	55
MCA502	Introduction to .Net Technology & C#	3	2	-	4	100	25	-	125	40	15	-	55
MCA503	Data Mining and Data Warehouse	3	2	-	4	100	25	-	125	40	15	-	55
MCA504	Electives : 1. <b>Soft Computing</b> 2. Simulation & Modeling 3. OOAD 4. Introduction to ISO & CMM	3	2	-	4	100	25	-	125	40	15	-	55
MCA505	Electives : 1. <b>Satellite &amp; Mobile Communication</b> 2. Embedded Programming 3. Robotics 4. Artificial Neural Network & fuzzy logic	3	2	-	4	100	25	-	125	40	15	-	55
MCA506	Programming Lab	-	-	3x2	3	-	50	100	150	-	30	50	80
MCA507	Programming Practice / Mini- Project	-	-	2	1	-	50	50	100	-	30	25	55
MCA508	Common Software / Mini- Project	-	-	2	1	-	50	50	100	-	30	25	55
MCA509	Seminar	-	-	2	1	-	25	-	25	-	15	-	15
	<b>TOTAL</b>	15	10	20	26	500	300	200	<b>1000</b>	200	180	100	<b>480</b>

**SCHEME OF TEACHING AND EXAMINATIONS 2016-2017**  
**MASTER OF COMPUTER APPLICATIONS**

SIXTH SEMESTER

Subject Code	SUBJECTS	Teaching Load Per Week			Credit	Examination Marks							
		L	T	P		Max. Marks				Min. Marks			
						Sessional Marks of Project Work	Project Viva-Voce	Pr	Total	Sessional Marks of Project Work	Project Viva-Voce	Pr	Total
MCA601	System Development Project (System Design & Implementation)	5	-	30	20	200	200	-	400	120	100	-	220
	<b>TOTAL</b>	5	-	30	20	200	200	-	400	120	100	-	220

- 🕒 Academic Calendar of the University :  
**As per Pt. Ravishankar Shukla University, Raipur.**
- 🕒 Academic Time Table  
**As per Pt. Ravishankar Shukla University, Raipur.**
- 🕒 Teaching Load of each Faculty:  
**As Per AICTE/UGC Norms**
- 🕒 Internal Continuous Evaluation System and place
- 🕒 Students' assessment of Faculty, System in place.

### BIO-DATA

1. **Name** Dr. Sanjay Kumar
2. **Date of Birth** 13-03-1966
3. **Sex** Male
4. **Nationality** Indian
5. **Present Position** Reader, School of Studies in Computer Science & IT  
**and Address** Pt. Ravishankar Shukla University, Raipur (C.G.) - 492010, India



**Residence:** 407, Sunder Nagar Raipur, C.G., 492013, India

**Contact :** Department : 0771-2262658 Residence : Mobile :

**E-mail :** sanraipur

#### 6. Academic Qualifications

- (i) B.E. (Electrical Engg.) from **Govt. Engineering College** in **1988**.
- (ii) M.E. (Computer Science & Engg.) from **Motilal Nehru Regional Engineering College, Allahabad** in **2000**.
- (iii) Ph.D. (Computer Science & Engg.) from **Ravishankar Shukla University, Raipur** in **2005**.

7. **Experience Teaching :** 21 Years.

**Others :** 07 Years.

#### 8. List of Papers

##### **National**

1. Sanjay Kumar, A. S. Zadgaonkar and S. Tiwari, "A better scheme of interconnection in supercomputers", journal of Ravishankar University, Raipur, vol.13, no. B(Science) (0970-5910), 2000, pp 20-29.
2. Sanjay Kumar, A. S. Zadgaonkar and S. Tiwari, "Performance of a buffered Quad Tree Network", journal of Ravishankar University, Raipur, vol.17, no. B(Science) (0970-5910), 2004, pp 19-31.

3. Punita Kartikeyan, Sanjay Kumar, V.K. Patle, "Survey of routing protocols in Vehicular Ad Hoc Network", Research Journal of Engineering and Technology (0976-2973), vol. 2, number 2, April-June 2011, pp 72-76.
4. Chandana Patnaik, Sanjay Kumar, V.K. Patle, "Modulation Techniques for WiMAX: A prespective", Research Journal of Science and Technology (0975-4393), vol. 3, number 2, April-June 2011, pp 95-98
5. Varsha Thakur and Sanjay Kumar,"A comparison of select Load Balancing Algorithm in cloud computing", The IUP journal of Computer Science (0973-9904), vol. 9, No. 1, January 2015, pp 7-13.
6. Varsha Thakur and Sanjay Kumar,"Load Balancing Algorithm : An Analytical Study", The IUP journal of Computer Science (0973-9904), vol. , No. , April, 2014, pp 25-34 .

### ***International***

1. Bhavana Narain, V.K. Patle, Sanjay Kumar,"Performance Evaluation of Routing Protocol and Congestion Control Protocol in Wireless Multi-hop Networks", International Journal of Computer Applications, (0975-8887) Volume 11, No. 1, December 2010, pp 40-42. Impact Factor .814
2. Sunita Kushwaha, Bhavana Narain, Deepti Verma, Sanjay Kumar, "Effect of scenario environment on the performance of MANETs Routing Prortocol : AODV", International Journal of Computer Engineering and Technology (IJCET) (0976-6367), volume 2, number 1, December January (2011), pp 33-38. Impact Factor 1.0425
3. Swarmina Shrivastava, Sanjay Kumar, Vinod Patle,"Congestion control protocols in unicast, multicast and broadcast applications: a survey", International Journal of Computer Engineering (0975-6116), vol. 3, number 1, January-June, 2011, pp 1-6.Impact factor 1.0425
4. Bhavana Narain, Sanjay Kumar, Prem Chandrakar, Vinod Patle, "Study for data mining techniques in classification of agricultural land soils", International Journal of Advanced Research in Computer Engineering (0974-4329)",vol. 5, number 1, January-June, 2011, pp 35-37. Impact Factor .7315
5. Bhavana Narain, Anuradha sharma, Sanjay Kumar, Vinod Patle, "Energy Efficient MAC Protocols for Wireless Sensor Networks : A Survey", International Journal of Computer Science & Engineering Survey (0976-2760), Vol. 2, number 3, August 2011, pp 121-131.Impact factor .564
6. Prem Chandrakar, Sanjay Kumar, Vinod Patle, "Applying Classification Techniques in Data Mining in Agriculture Land Soil", International Journal of Computer Engineering (0975-6116), July-December 2011, Volume 3, Number 2, pp 89-95. Impact factor 1.0425
7. Bhavana Narain, B. Shameem, Sanjay Kumar, "Performance Evaluation of Security aware AODV Protocol", International Journal of Computer Science and Knowledge Engineering (0973-6735), vol 6, no. 1, January-June 2012, pp 45-47. Impact Factor: 2.984
8. Sanjay Kumar, Bhavana Narain, Saurabh Kumar,"Monitoring techniques of Elephant Corridors, Chhattisgarh, India : A Perspective", International Journal of Applied Computing (ISSN 0974-6277), vol. 5, No. 1, January-June 2012, pp 1-3. Impact Factor .690
9. Bharti Sen and Sanjay Kumar, "An Automatic Parallelization in Multicore Computer using OMP", International Journal of Computer Science Engineering and Technology (On Line Peer Reviewed Journal) ISSN 2231-0711, vol2, issue 10, October 2012, pp 1465-1467. Impact Factor 1.0425
10. Vanya Rajput, Sanjay Kumar, V.K. Patle, "Performance Analysis of UMA and NUMA models", International Journal of Computer Science Engineering and Technology (On Line Peer Reviewed Journal) ISSN 2231-0711, vol2, issue 10, October 2012, pp 1457-1458.Impact factor 1.0425.



11. Bhavana Narain, A.S. Zadgaonkar, Sanjay Kumar, "Entropy as a Similarity Metric for Eye images", *International Journal of Graphics and Image Processing*, vol 3, issue 1, February, 2013, pp 16-19. ISSN 2249-5452. Impact Factor 1.96.
12. Bhavana Narain, A.S. Zadgaonkar, Sanjay Kumar, "Histogram Equalization Techniques and its applications in eye", *International Journal of Scientific and Engineering Research*, vol 4, issue 4, April 2013, pp 1176-1179. ISSN 2229-5518, Impact Factor 1.4
13. Bhavana Narain, Sanjay Kumar, "Impact of Algorithms on Green Computing", *International Journal of Computer Applications (0975-8887)* pp 111-113. From Proc. of International Conference on Green Computing and Technology at SIES Graduate School of Technology, Mumbai on 5-6 September, 2013 (Presented). Paper selected under Editor's Choice.
14. Rinki Kaur, Vinod Patle, Sanjay Kumar, "A Parallel algorithm to process harmonic progression series using Open MP", *International Journal of Engineering Research & Technology (2278-0181)*, vol 3, issue 2, February, 2014, pp Impact Factor 1.76
15. Chanchal Sahu, Sanjay Kumar, Vinod Patle, "Analysis of AODV protocol in wireless scenario", *International Journal of Engineering Research & Technology (2278-0181)*, vol 3, issue 2, February, 2014, pp 2945-2949, Impact Factor 1.76.
16. Sonu Agrawal, Sushil Kumar, Sanjay Kumar, "A Novel idea for age invariant face recognition", *International Journal of Innovative Research in Science, Engineering and Technology (2319-8753)*, vol. 3, issue 8, August 2014 pp 15618-15624.
17. Mithilesh Atulkar, A.S. Zadgaonkar, Sanjay Kumar, "A Fuzzy Logic based Contrast Enhancement Technique by Removal of Impulse Noise", *International Journal of Advanced Research in Computer Engineering & Technology (ISSN:2278-1323)* volume 3 issue 12, December 2014, pp 4332-4336.
18. Mithilesh Atulkar, A.S. Zadgaonkar, Sanjay Kumar, "Impulse Noise Removal Technique based on Fuzzy Logic", *Learning and Artificial Intelligence, Society for Science and Education, United Transactions on Machine Kingdom, (ISSN:2054-7390)* volume 2, issue 6, September 2014, pp 99-105.
19. Yajnaseni Dash, Sanjay Kumar, V.K. Patle, "A Survey on Serial and Parallel Optimisation Techniques applicable for Matrix Multiplication Algorithm" in *American Journal of Computer Science and Engineering Survey (ISSN : 2349-7238)*, AJCSES[3][1][2015]071-077.
20. Megha Jain, V.K. Patle, Sanjay Kumar, "Performance of Mobility models with different Routing Protocols by using Simulation Tools for WSN: A Review", *International Journal of Advanced Research in Computer and Communication Engineering*, (ISSN online 2278-1021, print 2319-5940) volume 4, issue 1, January 2015 pp 57-61.
21. Megha Jain, V.K. Patle, Sanjay Kumar, "Bitonic Sorting Algorithm: A Review", *International Journal of Computer Application*, (ISSN 0975-8887) volume 113, No. 13, March 2015, pp 40-43.
22. Purushottam Kewat, Bhavana Narain and Sanjay Kumar, "Green Computing and Environment", *International Journal of Science and Research*, (ISSN 2319-7064) pp 242-246 online. Also presented in National Conference on Knowledge, innovation in Technology and Engineering (NCKITE) held at Kruti Institute of Technology and Engineering, Raipur on 10-11 April, 2015.

23. Megha Jain, Sanjay Kumar, V.K.Patle,"Estimation of execution time and speed up for bitonic sorting in sequential and parallel environment", International Journal of Computer Application (0975-8887), volume 122, no.- 19, July 2015, pp 32-35.
24. Yajnaseni Dash, Sanjay Kumar, V.K. Patle,"Evaluation of performance on Open MP Parallel Platform based on Problem Size" I.J. Modern Education and Computer Science(print-2075-0161, on line-2075-017X), 2016,6, pp 35-40. Published online June 2016 in <http://www.mecs-press.org>.
25. Manisha Israni, V.K. Patle, Sanjay Kumar,"A Survey on performance of non realistic mobility models with different routing protocols on MANET", International Journal of Computer Applications(0975-8887), volume 127, no.- 3, October 2015, pp 38-44.
26. Varsha Thakur and Sanjay Kumar,"Impact of Parallelism on Dual core", International Journal of Computer Applications(0975-8887), volume 147, no.-13, August 2016, pp 10-12.
27. Varsha Thakur and Sanjay Kumar,"An Analytical Study on effect of Parallelism on Multicore", International Journal of Science, engineering and Technology Research (2278-7798), Volume 5, Issue 8, August 2016, pp2664-2666.
28. Varsha Thakur and Sanjay Kumar,"Perspective study and analysis of Parallel Architecture", International Journal of Computer Applications(0975-8887), volume 148, no.-14, August 2016, pp 22-24.
29. Varsha Thakur and Sanjay Kumar,"Load Balancing Approaches: Recent Computing Trends"International Journal of Computer Applications(0975-8887), volume 131, no.-14, December 2015, pp 43-47.
30. Varsha Thakur and Sanjay Kumar,"Performance Analysis of Sorting Algorithms in Multicore Architecture", International Journal of Science, engineering and Technology Research (2278-7798), Volume 5, Issue 8, August 2016, pp2668-2670.

## Conferences

### (A) National

1. Sanjay Kumar, S. Tiwari, "Performance of a buffered Banyan ATM switch "in proceeding of National System Conference held at BHU, Varansi (ISBN 81-7023) on 9-11 December 1999 (NSC-1999), pp 130-137.
2. Sanjay Kumar, A. S. Zadgaonkar and S. Tiwari, "Performance of a buffered Double Tree Network" in proceeding of National Conference on Communication held at IIT Kanpur (ISBN 81-7764-131-X) on 27-28 January 2001 (NCC-2001), pp 152-157.
3. Sanjay Kumar "Multimedia: The present scenario", proceedings of National seminar on computers in business, industry and commerce (COMBIC-'95) held at Govt. Engineering College, Raipur on 28-29 January 1995, pp 43-47.
4. Sanjay Kumar, "Role of industry and information technology in technical education", proceeding of national Seminar on Total Quality Management in Engineering Education held at Raipur Institute of technology (Sponsored by UGC) on 9-10 December 2000, pp 117-121.
5. Sanjay Kumar, Dhiraj Kumar Shrivastaw and Pankaj Shrivastava, " Photovoltaic cell: An Alternative source of Solar Energy", proceeding of All India Seminar on Power Generation

organised by Institution of Engineers, Chhatisgarh state centre at N.I.T., Raipur on 20-21 January, 2007, pp 41-44. (Presented)

6. Sanjay Kumar and Avinash Dhole "Nanogenerator : A New Source of Energy ", proceeding of All India Seminar on Power Generation organised by Institution of Engineers, Chhatisgarh state centre at N.I.T., Raipur on 20-21 January, 2007, pp 73-75. (Presented)
7. Sanjay Kumar and Mithilesh Singh, "Feasibility of Multiphase Transmission line", proceeding of All India Seminar on Power Generation organised by Institution of Engineers, Chhatisgarh state centre at N.I.T., Raipur on 20-21 January, 2007, pp 96-99. (Presented)
8. Sanjay Kumar, "Future Trends in IP Addressing", in the proceedings of National Seminar on Devices, circuits and Communication at BIT, Mesra on 6-7 November, 2008, pp 30-34.
9. Sanjay Kumar, " Unwanted Experimentation with Examination System in India", presented on 08<sup>th</sup> March, 2011 In the UGC national seminar on Examination Reforms organised by School of Studies in Psychology, Pt. Ravishankar Shukla University, Raipur on 07-09 March, 2011. (No Proceeding).
10. A. Hasan, V.K. Patle, Sanjay Kumar, "Energy Saving in Mobile Ad-hoc Networks" in UGC sponsored National Seminar on Enhancing Thinking in the Smart Way Internet Technologies " at Mata Gujri College, Jabalpur (M.P.) on 4-5 January, 2012, pp 127-130. (ISBN : 938112296-2).
11. S. Kushwaha and Sanjay Kumar, "Study of various multiprocessor scheduling methods", Proceedings of National Conference on High Performance Computing and Simulation, organized by NIST, Berhampur on 18<sup>th</sup> an 19<sup>th</sup> January, 2013, pp 30-32. (Presented. ISBN 978-93-82208-55-6)
12. Dhammpal R., Sanjay Kumar, V. Patle, "A Review of Grid Scheduling Algorithms to achieve effective task allocations", Proceedings of National Conference on High Performance Computing and Simulation, organized by NIST, Berhampur on 18<sup>th</sup> an 19<sup>th</sup> January, 2013, pp 45-48. (Presented. ISBN 978-93-82208-55-6)
13. Aamir Hasan, V.K.Patle, Sanjay Kumar, "Behaviour of routing protocols for voice communication in MANET", Proceedings of the 7<sup>th</sup> National Conference on Computing for Nation Development held at Bharti Vidyapeeth, New Delhi on 7<sup>th</sup> and 8<sup>th</sup> March, 2013. (Not presented ISSN 0973-7529; ISBN 978-93-80544-07-6, pp 650-653.
14. Bhavana Narain, A.S. Zadgaonkar, Sanjay Kumar, " A multi-view approach of image based transformation", All India Conference on Global Innovations in Computer Science & Engineering and Information Technology, AICON-2103, April 12<sup>th</sup> and 13<sup>th</sup>, 2013 at CSIT, Durg, ISBN Number 978-81-923288 1-2, pp 1.233-1.235.(Presented).
15. B. Shameem, Bhavana Narain, Sanjay Kumar, "Recent trends in Remote sensing Image Processing", A multi-view approach of image based transformation", All India Conference on Global Innovations in Computer Science & Engineering and Information Technology, April 12<sup>th</sup> and 13<sup>th</sup>, 2013 at CSIT, Durg, ISBN Number 978-81-923288 1-2, pp 1.245-1.247. (Presented).

16. Sanjay Kumar, "Role of Green Computing in Modern Scenario", presented in the UGC sponsored national conference on Recent Trends in Green Computing organised by School of Studies in Computer Science and Information, Pt. Ravishankar Shukla University, Raipur on 24-26 October, 2013. (Presented).
17. Tej Bahadur Chandra, V.K. Patle, Sanjay Kumar, "New Horizon of Energy Efficiency in sorting Algorithms : Green Computing", presented in the UGC sponsored national conference on Recent Trends in Green Computing organised by School of Studies in Computer Science and Information, Pt. Ravishankar Shukla University, Raipur on 24-26 October, 2013, NCON Proceeding pp 112-116 (Presented).

### **(B) International**

1. Sanjay Kumar, "Mathematical modelling and Simulation of a buffered Fault Tolerant Double Tree Network" in the proceeding of 15<sup>th</sup> International Conference on Advanced Computing and Communications ADCOM 2007 at IIT, Guwahati Published in IEEE Explore (ISBN 0-7695-3059-1) on 18-21 December, 2007, pp 422-431. (Presented)
2. Bhavana Narain, A.S. Zadgaonkar, Sanjay Kumar, "Eye Detection and Expression Recognition Techniques : A Perspective", Proc. of 2<sup>nd</sup> International Conference on Biomedical Engineering & Assistive Technologies at NIT Jalandhar on 6-7 December, 2012 (ISBN-13: 978-81-925454-1-7), pp 212-215. (Presented by B.Narain)
3. Renuka Patel, Sanjay Kumar, Vinod Kumar Patle, "Motion Detection System using Frame Differencing Technique", Proc. of 2<sup>nd</sup> International Conference on Biomedical Engineering & Assistive Technologies at NIT Jalandhar on 6-7 December, 2012 (ISBN-13: 978-81-925454-1-7), pp 216-219. (Presented by Renuka Patel) (Selected for Publication in International Journal of Fuzzy Systems and Rough Systems, vol 5. Issue No. January to June 2012 pp 121 to 123, ISSN 0974-858X)
4. Renuka Patel and Sanjay Kumar, "Effect of Problem Size on Parallelsim", Proc. of 2<sup>nd</sup> International Conference on Biomedical Engineering & Assistive Technologies at NIT Jalandhar on 6-7 December, 2012 (ISBN-13: 978-81-925454-1-7), pp 418-420. (Presented by Self)
5. Surendra Patel, Anil Sharma, G. Gupta, Sanjay Kumar, "High Performance Computing: Grid Computing and Cloud Computing for Green ICT", Proc. of International Conference on Green Computing and Technology at SIES Graduate School of Technology, Mumbai on 5-6 September, 2013, (presented) pp 144-147. Published in International Journal of Computer Applications (0975-8887).
6. Toran Lal Sahu, Deepty Dubey, Sanjay Kumar, "Preservation of edges during denoising of OCR images using curvelet transform", 3<sup>rd</sup> IEEE sponsored International Conference on Computation of Power, Energy, Information and Communication held at Adhiparasakthi Engineering College, Melmaruvathur-603319, Tamil Nadu, India on 16<sup>th</sup> and 17<sup>th</sup> April, 2014 (presented) pp 1008-1013 (ISBN 978-4799-3826-1).
7. Shipra Pradhan, Sanjay Kumar, V.K Patle, "Effect of parallelization on conditional summation", Proc. of 3<sup>rd</sup> International Conference on Parallel, Distributed and Grid Computing, held at Jaypee University of

Information Technology, Solan, Himachal Pradesh on 11<sup>th</sup> to 13<sup>th</sup> December, 2014, published in IEEE Explore (ISBN 978-1-4799-7682-9 ) pp 330-333. (Presented).

8. Nidhi Thakur, Sanjay Kumar, V.K Patle, "Comparison of Serial and Parallel Searching in Multicore Systems", Proc. of 3<sup>rd</sup> International Conference on Parallel, Distributed and Grid Computing, held at Jaypee University of Information Technology, Solan, Himachal Pradesh on 11<sup>th</sup> to 13<sup>th</sup> December, 2014, published in IEEE Explore (ISBN 978-1-4799-7682-9 ) pp 334-338. (Presented).
9. Sunita Kushwaha and Sanjay Kumar,"Analysis of List Scheduling Algorithms for parallel system", in the Proc. of High Performance Computing and Applications IHPCA-2014 held at C.V. Raman College of Engineering, Bhubaneswar from 22-24 December, 2014 (Presented). Published in IEEE explore ISBN 978-1-4799-5957-0 pp 1-6.
10. Yajnaseni Dash, Sanjay Kumar, V.K. Patle,"A Novel Data Mining Scheme for Smartphone Activity Recognition by Accelerometer Sensor", Proceeding of 4<sup>th</sup> International Conference on Frontiers in Intelligent Computing: Theory and Applications (FICTA 2015) of Fourth International Conference on Frontiers in Intelligent Computing: Theory and Applications held at NIT Durgapur from 16<sup>th</sup> to 18<sup>th</sup> December, 2015 (published by Springer) pp 131-140. (ISBN 978-81-322-2695-6) (Not presented)
11. Sanjay Kumar,"A New scheme to increase the address space of IPv4", Proceeding of International congress on Engineering and Information ICEAI-2016", held at International Convention Centre, Osaka, Japan on 10-12 May, 2016, pp 446-454. (Presented)
12. Dhampal Ramtane, Sanjay Kumar, V.K. Patle,"Route optimisation by Ant Colony Optimisation", presented in the 2<sup>nd</sup> International conference on Intelligent Computing, Communication & Convergence ICCCC-2016 held at IIMT Bhubaneswar on 24-25 January, 2016, pp 48-55. The paper is published by Elsevier and is available on line in <http://www.sciencedirect.com/science/article/pii/S187705091631568X> , ISSN 1877-0509, volume 92, 2016

## Books Written

"Automatic Elephant Detection System" By Sanjay Kumar & Bhavana Narain. Book is available on amazon.com Book details are as below:-

- Paperback: 38 pages
- Publisher: CreateSpace Independent Publishing Platform (April 8, 2016)
- Language: English
- ISBN-10: 153090501X
- ISBN-13: 978-1530905010
- Product Dimensions: 6 x 0.1 x 9 inches
- Shipping Weight: 3.8 ounces

## 9. Details Of Short Term Courses Attended

- 1) Workshop on basic course in 'C' language held at Govt. Engineering College, Raipur from 26 February to 1 March 1996 sponsored by Directorate of Technical Education, Madhya Pradesh,

Bhopal.

- 2) Winter school on Institutional planning and management at college of Engineering and Technology, O.U.A.T. Bhubaneswar from 10 to 15 February 1997, Sponsored by I.S.T.E., New Delhi.
- 3) Summer school on industry-Institution partnership from 26 May to 31 May held at Govt. Engineering College, Ujjain, sponsored by AICTE-ISTE, New Delhi.
- 4) I.S.T.E. short term course on Information Technology and Networking held at Govt. Engineering College, Raipur from 22 September to 6 October 1997.
- 5) Short term course on High Voltage Insulation Engineering held at Govt. Engineering College, Raipur from 31-01-2005 to 04-02-2005 under knowledge sharing program of I.I.T. Kanpur, and Chhattisgarh state. 6) Short term course on Intelligence Control held at Govt. Engineering College, Raipur from 19th March to 23 March 2005 under knowledge sharing program of I.I.T. Kanpur and Chhattisgarh state.
- 7) Short term course on Wireless Communication and Mobile Computing held at National Institute of Teacher's Training and Research, Chandigarh from 6 February to 17 February 2006 sponsored by AICTE.
- 8) AICTE-MHRD sponsored Short term course on Computer Architecture and Design held at NIT, Rourkela from 29 October, 2008 to 11 November, 2008.

#### **10. Membership Of Professional Bodies**

- Computer Society of India (CSI) – Senior Life Member – 00019365  
Inducted in the year 2007
- Indian Society for Technical Education (ISTE) - Life Member LM 21352  
Inducted in the year 1995
- Institution of Engineers – Fellow - F-115161-0,  
Chartered Engineer - M 121378-9 Inducted in the year 2001
- The Indian Electronics and Telecommunication Engineers (IETE) – Member - M165658  
Inducted in the year 2003
- Advanced Computing Society with Head Quarter at IISc, Bangalore – Member Membership number is not issued.
- Chairman of CSI Raipur Chapter for the term 09-08-2014 to 31-03-2016
- Joint Secretary in Institution of Engineers, Chhattisgarh state Centre.

#### **11. Invited lectures and Chairmanship in seminars/Conferences**

1. Chaired one technical session in the national workshop organized Department of Electronics, Raipur Institute of Technology on “Microprocessor, Microcontroller and DSP applications” on 22nd March, 2006.
2. Chaired one technical session during the national conference held at Rungta College of Engineering and Technology, Bilai, (Chhattisgarh) on 29-03-2007 on the topic of “e-Governances (CS) & Communication and Development (IT)”.
3. Chaired one technical session during the national conference organized by Institution of Engineers (India) Bilai Local Centre at SSCET on 06-01-2007 to 07-01-2007 on “Advanced Communication Techniques & Networking: Exploring Challenges”.
4. Chaired one technical session during the national conference Technologia-2007, held on 2nd and 3rd March, 2007 at M.P. Christian College of Engineering and Technology, Bilai, (Chhattisgarh).
5. Chaired on technical session in the national conference on Recent Trends in Computer Technology held at Shri Shahkaracharya College & Technology Bilai (SSCET), (Chhattisgarh), Bilai on 26th, 27th October, 2007.

6. Chaired one technical session in the national conference on “Innovations in Science and Technology towards Industry Development” organized by RCET, Bhilai on 04th, 05th January, 2008.
7. Delivered Key Note Address during the National Conference on “Data Security and Integrity” held at Raipur Institute of Technology on 16th February, 2010.
8. Delivered Key Note Address and chaired one technical session during the national conference on Emerging Technology and Processes in E-Governance held on 9th and 10th December, 2010 at C.V. Raman University, Kota, Bilaspur.
9. Delivered Key Note Address and chaired one technical session during the national conference Technologia-2011, held on 10th and 11th March, 2011 at M.P. Christian College of Engineering and Technology, Bhilai, (Chhattisgarh).
10. Chaired one technical session during the international conference on ‘Emerging trends in soft computing and ICT’ held at Guru Ghasidas Central University (Chhattisgarh) on 16th and 17th March, 2011.
11. Delivered invited lecture on “Network Security” in UGC sponsored National Workshop on IT Security and Ethical Hacking organized by Bhilai Mahila Mahavidyalaya, Bhila on 11th and 12th February, 2012.
12. Delivered lectures in Academic Staff College of RSU on basics of computer, internet, ICT respectively on 09-02-2010, 05-09-2011, 25-02-2012, 24-03-2013.
13. Delivered two lectures on ICT Basics Part-1 and part-2 during the refresher course as resource person at UGC-Academic Staff College, Pt. Ravishankar Shukla University, Raipur on 09-07-2014 from 02:00-05:00 p.m. (3 hours). Delivered lecture in Refresher Course as Resource person on Recent Trends in Campus Area Networking on 19th August, 2014.
14. Delivered an invited lecture on Computing, Communication and Networking at Shankaracharya Engg. College, Raipur on 12-09-2012.
15. Chaired on technical session during the International Conference on “Biomedical Engineering and Assistive Technologies” BEATS 2012 at NIT, Jalandhar held on 6th and 7th December, 2012.
16. Delivered an invited lecture on Green Computing and chaired one technical session during the UGC sponsored National Conference on “Education and Research Scenario of Mathematical and Computer Science” on 29th and 30th January, 2013 held at Seth Phoolchand College, Rajim, Chhattisgarh on 29th January, 2013.
17. Delivered an invited lecture on Broadband based Digital Education during the UGC sponsored National Workshop on Computer Applications in Science teaching, learning and research, held at Govt. P.G. Science College, Bilaspur (C.G.) on 1st and 2nd February, 2013.
18. Delivered an expert lecture on “Basics of Computer Architecture” under CPE program on 24-09-2013 at Govt. Science College, Raipur (C.G.).
19. Delivered Key Note Lecture on “Architecture of Computer Network” on 4th March, 2013 during 2 days AICTE sponsored National Seminar on Routing, Flow and Capacity Design in Computer Networks held on 4th and 5th March, 2013 at Columbia Institute of Engineering and Technology, Raipur.
20. Delivered Key Note Address on “Efficient Allocation of IP Addresses” and chaired one technical session during the CGCST sponsored national conference on Computer Applications in Rural Development at BIT, Durg, held on 8th and 9th March 2013.
21. Delivered Key Note Address on Green Computing and chaired one technical session during the CGCST sponsored national conference Technologia-2013, held on 15th and 16th November, 2013 at M.P. Christian College of Engineering and Technology, Bhilai, (Chhattisgarh).

22. Delivered Key Note Address on Pipelining and chaired one technical session during the CGCST sponsored All India Conference on Global Innovations in Computer Science & Engineering and Information Technology, AICON-2103, April 12th and 13th, 2013 at CSIT, Durg.
23. Delivered Key Note Address on Principles of Pipelining in Computer Architecture and chaired one technical session during the CGCST sponsored national conference on Computer Science and IT, held on 8th and 9th February, 2013 at Central College of Engineering and Management, Kabir Nagar, Raipur (Chhattisgarh).
24. Chaired one technical session during the international conference on Advanced Research Applications in Engineering and Technology, Shasstrath 2013, held on 8-9 February, 2013 at Rungta College of Engineering and Technology, Bhilai (Chhattisgarh)
25. Delivered Key Note Address on Classless Addressing and chaired one technical session during the international conference on Computer Science and Technology Shasstrath 2014, held on on 20th September, 2014 at Rungta College of Engineering and Technology, Raipur (Chhattisgarh).
26. Expert lecture on e-Governance given in CGCST sponsored 2 days workshop held at M.J. College, Bhilai on 20th September, 2014.
27. Key note lecture on 'Parallel Computing' during CGCST sponsored National Conference on Application of Computers and Electronics for the welfare of Rural Masses held at RSR Rungta College of Engineering and Technology on 6th and 7th February, 2015.
28. Chaired a technical session and delivered Key note lecture on 'Energy Management for Sustainable Development' in CGCST sponsored International Conference on Utilisation of Non Conventional Energy Sources for Sustainable Development of Rural Areas (ISNCEsr PARAS 2015) held at Parthivi College of Engineering and Management on 21-22 March 2015. Also chaired one technical session.
29. Delivered invited talk on Network Communication in the national symposium on 'Distributed Computing and Network Communication' held on 30th January, 2015 at Govt. Science College, Raipur.
30. Delivered key note lecture on emerging trends in information technology in the international seminar on "Emerging Trends in Information Technology and Applied Sciences" held at MATS university, Raipur on 28th to 30th March, 2015.
31. Chaired one technical session during the international conference on Advanced Research Applications in Engineering and Technology, Shasstrath 2015, held on 29-30 June, 2015 at Rungta College of Engineering and Technology, Bhilai (Chhattisgarh).
32. Chaired one technical session during the national conference on Knowledge, Innovation in Technology and Engineering held on 10-11 April 2015 at Kruti Institute of Technology and Engineering, Raipur.
33. Delivered Key note address on Green Computing and chaired one technical session during the National Conference on Next Generation Computing and its applications in Science & Technology held at Indira Gandhi Institute of Technology, Sarang, Odisha on 27-28 September, 2016.

Certified that all the information given above by me is correct to my knowledge and understanding.

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Date:

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