

**THE ANNUAL QUALITY ASSURANCE  
REPORT (AQAR)  
OF THE IQAC**

**Year of Report: 2003-2006**

**SUBMITTED TO**

**NATIONAL ASSESSMENT AND ACCREDITATION  
COUNCIL, BANGALORE**



**SUBMITTED BY**

**Pt. RAVISHANKAR SHUKLA UNIVERSITY  
RAIPUR (CHHATTISGARH)**

**The Annual Quality Assurance Report (AQAR)**  
**of the IQAC**

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University, Raipur – 492 010  
(Chhattisgarh)

**Year of Report:** : 2006-2007

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**Part A - The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year:**

Pt. Ravishankar Shukla University, Raipur, was accredited “B+” by NAAC, w.e.f., 23 March 2003. The IQAC was constituted and several meetings were held with the aim to improve overall standard of education and research of the University Teaching Departments (UTDs). The suggestions forwarded by the NAAC visiting committee were taken into consideration while chalking out plan of action for the academic sessions, 2003-04, 2004-05 and 2005-06.

**Objectives**

The main objective of the university is directed towards teaching, learning, and research & extension, besides examinations.

**Our Mission**

- To establish Pt. Ravishankar Shukla University as one of the centers of excellence of the higher education at the national and international levels
- To create an environment for promotion of quality teaching and research
- To make the students self-reliant, self-esteemed and ethical so as to maintain the sanctity of life and to contribute to the Society

**The plan of action has been outlined below:**

- To initiate new job-oriented need-based courses at UG and PG levels.
- To review the existing syllabi and to revamp it as per the model UGC syllabus.
- To introduce Semester System in place of Annual Examination System in UTDs.
- To encourage interdisciplinary cooperation in teaching & research.
- To encourage organization of seminar, symposium and workshop in the campus.
- To motivate faculties to apply for projects from different funding agencies.
- To motivate students and teachers for their participation in various kinds of community services.
- To recruit new faculties.
- To improve the quality of services offered by the University Library.
- To introduce the system of student assessment of teachers' performance.

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- To augment computerization of various processes related to admission, examination, declaration of results, issuance of mark sheets and certificates.
- To improve upon the existing infrastructure facility, including technology up gradation.
- To provide Internet facility to students and teachers.
- To reward meritorious students by giving them suitable scholarships and awarding them with gold medals.
- To improve upon the existing health services.
- To give incentives to outstanding sports persons.
- To encourage research scholars to participate in young scientists' competition at both State and National levels.
- To make placement and counseling services more effective and productive.
- To encourage to develop linkages with the national and international agencies, institutions, laboratories and industries.
- To adopt healthy practices.

The outcome achieved at the end of the academic session 2005-06 has been outline in the Section B.

### **Part B:**

#### **01. Activities reflecting the goals and objectives of the institution:**

Different School of Studies are engaged in teaching and research activities in the realm of basic and applied areas with the aim at imparting quality higher education to the inhabitants of this newly created state of the country and to the people of adjoining areas belonging to other states.

The Adult, Continuing Education & Extension department, established in 1984, and is promoting research in the areas of HRD, Literacy, Continuing Education, Population Education, Environment Education, and Extension activities for community development and it offers s, viz., PG Diploma in Adult, Continuing Education & Extension.

The thrust areas of research of Ancient Indian History, Culture and Archaeology (Year of establishment: 2001) are Regional history, Art-history and Numismatics. It offers M.A., M.Phil. and Ph.D. In future new course in Museology is to be initiated.

SoS in Anthropology is one of the oldest Schools of the campus (Year of establishment: 1965) under the Faculty of Life Sciences. It offers M.A. /M.Sc., M.Phil. and Ph.D. The research interest includes Tribal Health, Genomic Diversity, Ethno-medicine, Medical Biotechnology, Tribal Development, Ethno-Archaeology, Tribal Culture, and Genetic Epidemiology. This School offers both postgraduate and research degree s in Anthropology. The School has well

equipped laboratory for conducting biotechnological studies. It has museum, library and computational facilities.

The School of Studies in Biotechnology is actively engaged in teaching and research in the field of Biotechnology. The school runs a two-year P.G. and Ph.D. s in Biotechnology and allied areas. The research activities are directly related towards development of the core areas in Biotechnology and are focused towards the needs of the newly formed state of Chhattisgarh.

Founded in 1972, the SoS in Chemistry is one of the largest Schools in Pt. Ravishankar Shukla University, Raipur, and stands out distinctly as the premier institution in Chhattisgarh. The academic achievements of the SOS are well reflected through over 650 research papers published in reputed journals and over 250 Ph.D.s' produced covering a wide spectrum of the chemical sciences. All research activities are designed in a way so that the Ph.D. degree holders could secure opportunities in suitable careers. For excellence in studies at P.G. level and research activities, the SoS in Chemistry has been identified by the Department of Science & Technology, New Delhi, under the scheme Fund for Improvement of Infrastructure in Science & Technology (FIST) for a duration of 5 years, i.e., 2003-2008. The SoS played an important role in propagation of scientific/technical expertise by arranging training s, workshops, and field visits with healthy participation of industrial sectors.

The SoS in Computer Science attempts to develop skill and entrepreneurial capabilities among students and help them in upgrading their on the latest technologies. The School organizes seminars, workshops, conferences and short term projects on regular basis for the dissemination of emerging knowledge and expertise in the area of high and futuristic technology areas. In addition to this, extra curricular activities, guest lecturers, quizzes etc., are arranged to aid the overall development of students. Recently the School has introduced E-Classes for students and others by broadening the network connection while connecting it with EDUSAT. This provides both students and teachers with the opportunity to listen to on-line lectures of renowned professors/experts in different fields of different universities in the different branches of computer science, different engineering fields. It extends this facility to other SoS on the campus. The SoS in Computer Science is now among the selected 16 University of the country to have the advance satellite communication device "V-SAT" for high-speed Internet connection (2 Mbps) and for accessibility to e-journals.

The main objective of the Institute of Education is to provide trained teachers for school education.

Main goal and objective of the School of Studies in Electronics is to spread electronics science and its application in real life within and out side the state. This is accomplished by providing students with good teaching environment. Activities regarding the fulfillment of the goals and objectives of the department are mainly students' seminars and project work, specialized lecturers delivered by subject experts, Internet facilities, e-classes through audio-visual aids, and e-library. The SoS is equipped with analog & digital lab, digital communication lab, optical fiber communication, microprocessor, microcontroller and embedded system lab, laser optic lab, PC-based robotics system, virtual instrumentation lab through lab view software and advanced computing/digital signal processing through latest version of Matlab.

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The SoS in History organized a Seminar on tribes of Chhattisgarh along with the Annual Conference of IASSI (Indian Association of Social Science Institutions) on 27-28 January 2004. The Seminar focused on some of the issues pertaining to the tribes of Chhattisgarh. This was a step towards the achievement of goals and objectives of the university.

The School of Library & Information Science started with B. Lib. I. Sc. course with the objectives to enable the students to understand the functions & purpose of the library in the changing social and academic setup of the society, and to train the student in the techniques of the librarianship and management of libraries. Later the school started M. Lib. I. Sc. course to give the students specialized knowledge of the vital role of information as an input and to improve their necessary skill in designing, operating and managing the information system. In 1992, the School started M. Phil. course to provide specific knowledge in Research Methodology, and Library & Information Centers Management.

The School of Life Sciences is a multidisciplinary department running M. Sc. and Ph. D. s in Bioscience, Microbiology and Biochemistry. The department is actively engaged in frontier areas of research in the domain of life sciences. The School has the distinction of receiving financial supports through both DST-FIST and UGC's DRS-SAP schemes.

The SoS in Literature & Language serves as a nucleus mainly for the maintenance and development of Languages & Literature through teaching, research (intra-and inter-disciplinary), and projects.

MBA, which is the core of the Institute of Management is so designed that it meets the very objective of the setting up of this institute. Further, to fulfill the mission, the institute conducts Seminars, Workshops, Presentations, Guest Lectures inviting the people from local industry and outside as well as the reputed entrepreneurs, who from time to time give suggestions to strengthen our core to enable the final product of this institute to befit need of the industry in particular and the society as a whole.

SoS in Pharmacy imparts Pharmaceutical education at degree and research level. SoS in Physical Education runs one-year B. P. Ed. and two-year M. P. Ed. courses.

SoS in Philosophy and Yoga (earlier SoS in Comparative Religion and Philosophy) is engaged in Research, Teaching & Yogic practices.

SoS in Psychology imparts comprehensive education for holistic development of students.

Center for Regional Studies coordinates and conducts researches on regional problems.

**02. New academic s initiated (UG and PG):**

- Ph.D. in Regional Studies
- M. A. Ancient Indian History, Culture & Archaeology
- M. Sc. Information Technology (2003-2004)
- M. Sc. Biochemistry (2004-2005)
- M. Sc. Bioscience (Chronobiology special paper in 2005-2006)
- M. Sc. Chemistry (Medicinal Chemistry Special Paper in 2004-05)
- M. Ed. Course
- M. Lib. I. Sc. Course (Two-year; Part-time)
- M. Pharm. (Proposed to AICTE, New Delhi)
- M. A. Applied Philosophy and Yoga proposed, w.e.f., July 06.
- Master of Business Economics (Proposed)
- M. Tech. in Optoelectronics and Laser Technology
- PG Diploma in Criminology & Forensic Science
- PG Diploma in Watershed Technology and Management
- PG Diploma in Remote Sensing and GIS
- PG Diploma in Marketing Management
- PG Diploma in Regional Planning and Development
- PG Diploma in Tourism & Hotel Management
- PG Diploma in Library Automation & Networking (PGDLAN) (Proposed)
- BA LLB five-year integrated course (2003)
- Certificate Course in Watershed Technology

**03. Innovations in curricular design and transaction:**

All the Schools of Studies have revised and redesigned their Syllabi as per Model Syllabus of UGC. The of the M. Sc. in University Teaching Departments were running on annual basis but from the session of 2006-2007 semester system is proposed to be implemented as per the NAAC recommendations. In every meeting of Board of Studies, syllabi of UG and PG courses are revised according to the present requirements. Project work has been made compulsory in several subjects, like Bioscience, Biotechnology, Microbiology and Biochemistry. Field studies are integral part of subjects, like Anthropology, Geology, Geography and Management.

In Computer Science the course has been updated. New paper "Satellite & Mobile Communication" and "Soft Computing" has been introduced in MCA-V and M. Sc. IT-III.

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The curriculum of M.A. History was designed in 2002 on the basis of the model syllabus of the U.G.C. However, emphasis has been given to regional history. From the session 2006-07 Semester system is proposed in Schools of Studies and Autonomous Colleges of the University. Accordingly, the syllabus of M.A. History has been re-designed.

In view of the fundamental shift in the goals of the Library, and in view of the changes in information storage and delivery mechanism, the School of Studies in Library & Information Science reframed its syllabus on the basis of the Model of the UGC Model curriculum (semester system).

In School of Studies in Life Sciences, curriculum was designed for M. Sc. Biochemistry, and for special paper in Chronobiology in M. Sc. Bioscience. Syllabus drafted for the four Semesters of M. Sc. Bioscience, M. Sc. Microbiology and M. Sc. Biochemistry to be implemented from session 2006-2007. Ordinance for the Semester system was drafted. Laboratory experiments are being reoriented and upgraded employing new tools and techniques.

Besides two weeks summer training in plants, which is compulsory for every MBA students, two research projects are also made compulsory in the curriculum, to make the students interact with the industry and the consumers as well and to be aware of practical applications of theory and develop their confidence. Industry presentation has been made compulsory in groups so that the students will be forced to be acquainted with the newspapers and business magazines to update themselves with the contemporary business news and develop their confidence and communication skills.

### **04 Inter-disciplinary s started:**

School of Studies in Anthropology have initiated inter-disciplinary s with other School of Studies, viz., Regional Studies, Physical Education, Biotechnology besides Centre for Women Studies, Pt. R.S.U., Raipur, State Forensic Lab, Govt. of C.G., Raipur, Pt. JNM Govt. Medical College, Raipur and Regional Cancer Institute, Raipur. School of Studies in Chemistry has collaborated for inter-disciplinary research with Bhabha Atomic Research Centre, Trombay, Mumbai for in-vivo and in-vitro studies related to Cancer Research, with Institute of Science, Nagpur for software drug designing and DRDO Gwalior. School of Studies in Computer Science has proposal for starting the academic in Bioinformatics. School of Studies in Geography is assisting SOS in Geology in running Diploma courses in GIS. In the School of Studies in Library and Information Science most of the research work is taken up as interdisciplinary approach, like Bibliometric studies, Information seeking behavior, Job evaluation & satisfaction, Financial Management, Management Inform system etc. M. Phil. in Applied Information Technology has been introduced as a part of the curriculum. In School of Studies in Literature and Languages, inter-disciplinary approach is being exercised in Ph.D. and D. Litt. from the beginning (Preferably Hindi, English, Sanskrit).

In School of Studies in Life Sciences inter-disciplinary research is going on in the area of Chronobiology, Parasitology, Seed Biology, Microbiology and Plant Tissue Culture. M. Sc. Students are going for their project work in various universities and national laboratories. Research scholars have attended International symposium abroad. Also, research scholars visited important

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National Laboratories for higher training. In School of Studies in Physical Education, Psychology and Regional Studies inter-disciplinary research s are going on with many other School of Studies of the university.

### **05. Examination reforms implemented:**

Earlier all the School of Studies had the annual system of Examination. However, Semester System has been proposed to be implemented from academic session 2006-2007 as per the NAAC recommendations in all the Schools of Studies. There is semester Examination for M. Lib. I. Sc. and annual system for B. Lib. I. Sc. and M. Phil.

A new examination system introduced for evaluation M.Sc. Projects of Bioscience, Microbiology and Biochemistry students of all affiliated colleges and UTD, at School of Life Sciences, to maintain uniformity in the award of marks. In MBA three internal tests are conducted for internal assessment of students out of which two best is taken as final marks.

### **06. Candidates qualified: NET / SLET / GATE:**

<b>Schools of Studies</b>	<b>NET</b>	<b>SLET</b>	<b>GATE</b>
AIH, Culture & Archaeology	01	-	-
Anthropology	03	-	-
Chemistry	02	-	01
Comparative Religion & Philosophy	01	-	-
Economics	02	-	-
Electronics	01	-	01
Geography	04	-	-
Geology & WRM	02	-	-
Library & I. Sc.	05	-	-
Literature & Languages	02	-	-
Life Sciences	08	-	-
Mathematics	03	-	-
Pharmacy	-	-	07
Physical Education	03	-	-
Physics	03	JEST 04	-
Psychology	01	-	-
Sociology	03	-	-
Statistics	01	-	-

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Tourism & Hotel Management	01	-	-
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### **07. Initiative towards faculty development s:**

The university organized Refresher courses in Chemistry, Physics, Economics, Computer Sciences, Environmental Sciences and Biotechnology for teachers of affiliated colleges and university teaching departments. Recently UGC has sanctioned Academic Staff College to this university.

### **08. Total number of seminars / workshops conducted:**

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<b>School of Studies</b>	<b>Seminar</b>	<b>Workshop</b>
Anthropology	02	-
Biotechnology	01	-
Chemistry	04 (2 RC)	-
Comp. Religion & Philosophy	01	-
Computer Science	03	01
Economics	01	-
Geography	-	03
History	01	-
Library & I. Sc.	05	-
Literature & Languages	-	02
Life Sciences	06	01
Management	02	02
Mathematics	01	01
Pharmacy	02	-
Physical Education	02	-
Physics	02	-
Psychology	-	05
Regional Studies	02	-
Sociology	02	-
Statistics	01	-

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### **09. Research projects:**

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<b>School of Studies</b>	<b>Newly Implemented</b>	<b>Completed</b>
AIH, Culture & Archaeology	01	01
Anthropology	04	04
Chemistry	03	05
Economics	01	-
Electronics	-	02
Geography	-	02
Geology & WRM	01	-
Life Sciences	07	05
Mathematics	01	-
Pharmacy	01	-
Physical Education	02	02
Physics	02	01
Psychology	02	04
Sociology	-	02
Statistics	01	01

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**10. Patents generated, if any:**                      **Nil**

### **11. New collaborative researchs:**

School of Studies in Anthropology has started new collaborative research s with Indian Statistical Institute, Kolkata. In SoS in Chemistry collaborative research is going on with Bhabha Atomic Research Centre, Trombay, Mumbai and Forschungszentrum Karlsruhe, Germany. School of studies in Chemistry is working in collaboration with Radiation Biology and Health Science Division, BARC, Institute of Science, Nagpur and DRDO, Gwalior.

Computer Science: DAAD Sandwich model Ph. D. with German Institute.

A Memorandum of Understanding is in the process to be signed with the University of Hawaii, Honolulu for collaborative research. Two Research Scholars of SoS in Electronics have been registered in Electronics and Telecommunication Engineering faculty of Pt. R. S. University, Raipur for Ph. D. degree.

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The following new collaborative research s was initiated by SoS in Life Sciences with:

- Indian Toxicology Research Centre, Lucknow
- National Botanical Research Centre, Lucknow
- Indira Gandhi Agriculture University, Raipur
- Regional Cancer Center, Pt. JN Medical College, Raipur
- School of Studies in Physical Education, Pt. RSU, Raipur
- Halberg Chronobiology Centre, University of Minnesota, Minneapolis, USA
- Department of Biochemistry and Biotechnology, Jiwaji University, Gwalior
- IPGRI, Italy
- Mahaveer Academy of Technology & Sciences, Raipur

SoS in Physical Education has initiated collaborative s in Psychology, Chronobiology, Physiotherapy and Biotechnology etc.

SoS in Psychology is running collaborative research s with Education, Regional research and Studies, Home Science and Physical Education.

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### **12. Total research grants received from various agencies:**

Grants received from Funding Agencies: (UGC, DST, DBT, CCOST, AICTE, MOEF, ICHR, State Government etc.)

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<b>School of Studies</b>	<b>Amount (INR in lac)</b>
AIH, Culture & Archaeology	2.20
Anthropology	27.52
Chemistry	2.0
Computer Science	25.0
Economics	1.0
Electronics	3.18
Geology & WRM	3.0
History	0.90
Life Sciences	112
Management	3.0
Mathematics	0.46
Pharmacy	27.0
Physical Education	9.43
Physics	12.0
Psychology	1.3
Statistics	2.7
Tourism & Hotel Management	2.0

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### **13. Number of research scholars: 556 (394 in SoS)**

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<b>School of Studies</b>	<b>Number</b>
AIH, Culture & Archaeology	07
Anthropology	20
Biotechnology	06
Chemistry	30
Comparative Religion & Philosophy	08
Computer Science	06

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Economics	20
Electronics	04
Geography	36
Geology & WRM	10
History	30
Law	02
Library & I. Sc.	06
Literature & Languages	56
Life Sciences	30
Management	10
Mathematics	07
Pharmacy	07
Physical Education	25
Physics	16
Psychology	15
Regional Studies	11
Sociology	25
Statistics	07

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**14. Citation index of faculty members and impact factor:**

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Name	Citations received in SCOPUS					From SCOPUS
	2003	2004	2005	2006	Total	h-index
M. Mitra	17	13	15	14	59	5
A. Baghel	0	2	2	0	4	1
G. Shankar	0	0	0	1	1	0
S. Bhushan	7	2	2	15	26	2
R.C. Agrawal	18	38	39	38	133	9
D.P. Bisen	0	0	1	1	2	1
R. Pande	4	1	0	8	13	3
K.S. Patel	19	14	27	24	84	8

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K.K. Ghosh	47	29	25	56	157	9
M.K. Deb	3	5	10	9	27	4
S. Pervez	0	4	6	3	13	3
M.W.Y. Khan	0	2	0	1	3	2
S.K. Pande	0	0	0	1	1	0
B.K. Sharma	2	0	0	0	2	2
H.K. Pathak	2	2	2	8	14	2
B.S. Thakur	0	0	0	0	0	1
S. Tiwary	3	0	0	2	5	2
O.P. Vyas	2	0	0	1	3	1
S. Saraf	0	0	0	2	2	3
S. Saraf (Mrs.)	0	0	0	2	2	4
V. Rai	3	8	4	15	30	4
A.K. Pati	17	17	16	20	70	6
A.K. Gupta	1	0	1	0	2	2
S.C. Naithani	4	9	8	3	24	3
V. Koche	1	1	2	1	5	2
A. Parganiha	2	1	6	1	10	3
K.K. Sahu	1	2	1	0	4	2

**15. Honors / Awards to the faculty:**

Dr. K.L. Tiwari	Fellow of Indian Aerobiological Society
Dr. O. P. Vyas	DAAD Fellowship Germany; AOTS Fellow, Japan
Mr. Lokesh Sharma	DAAD Fellowship, Germany
Dr. Sanjay Tiwari	National Research Award of UGC New Delhi; Nominated by Govt. of India for Commonwealth Academic Staff Fellowship U.K.; Selected for U. K. India Education & Research Initiative Fellowship to undertake postdoctoral research & higher studies at University of Cambridge UK.
Dr. M. A. Khan	Awarded with the VIJAYSHREE by

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	India International Friends Society New Delhi in 2005. He has been picked up as a member of peer Team of the NAAC.
Prof. A.K. Pati	Fellow of the National Academy of Sciences, India (Elected in 2003); UGC Research Award (2002-2005)
Dr. A.K. Gupta	Fellow of Zoological Society of India Kolkata (2003)
Prof. Sashi Bhusan	Vice-President, FOST
Dr. Arti Parganiha	Post doctoral fellowship from Université Paris-SUD-XI, Paris, France, 2006-2007

### **16. Internal resources generated:**

Philosophy & Yoga – About Rs. 4 Lakh generated through yoga.

Chemistry – 08+08 Seats in M. Sc. on payment basis, i.e., 10,000 per year.

Computer Science – has generated grant from self-financing resources.

Electronics – internal resources for the development has been generated through 40 payment seats in M. Sc. Previous and Final.

Institute of Teachers Education – It is under self-financing scheme and entire expenses including salary of the teachers and other employees is paid from the resources generated by the Institute.

Geology & WRM – Generates fund through consultancy services.

Library Science – 10 seats each in B. Lib. I. Sc. & M. Lib. I. Sc. are payment seats. Each students has to Pay Rs. 8000/- & 12000, respectively, each year. M. Phil is self- financed course.

Literature & Languages – M. A. English, M. Phil. English, M.Phil. Courses, such as Hindi are being run under self-finance scheme.

Life Sciences – M. Sc. Microbiology & M. Sc. Biochemistry are run under self-financing Scheme.

Management – Fees collected from the students' amount to Rs. 18.0 lakh per annum.

Psychology – Students of M. Phil. Clinical Psychology and P.G. diploma in P.M.I.R. paid Rs. 10000 per course.

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### **17. Detailed of departments getting SAP, COSIST / DST, FIST etc. assistance / recognition:**

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<b>School of Studies</b>	<b>Funding Agency</b>		<b>Year (Amount)</b>
Life Sciences	DST FIST	2000	2005 (40 lakh)
	DRS SAP	2004	2007 (37 lakh)
Chemistry	DST FIST	2003	2008 (20 lakh)
Physics	DST FIST	2003	2008 (30 lakh)

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### **18. Community services:**

SoS in Anthropology is engaged in community service:

- i) Through village study & Field work.
- ii) Genetic counseling lecturer through series of Lecturers in various schools & Red Cross Society especially on Sickle cell disease.

The SoS in Biotechnology is engaged in community service by providing education and conducting research directly relevant to the community.

SoS in Economics: Slums and Rural Areas, NGOs.

For B. Ed. Trainee community services is essential as per their curriculum. Students/Trainees are sent to remote areas with a specific object, such as:

To make the people aware of about communicable disease,

To educate rural/slum dwellers regarding cleanliness, and

To make aware of the people for other social issues

The SoS in Library & Information Science is providing free consultancy services to the local libraries in the organization and management of Libraries. Extension services are provided to public libraries also. Orientation me is organized by the department for the students to know the library services and how to get their documents from the library.

The Faculty members of SoS in Literature and Languages are invited to different seminars/conference/workshop organized by banks and Central Govt. Offices.

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SoS in Life Sciences

(i) A Camp on National Filarial Day (11 November 2005) was organized by research and M. Sc. students for Mass Drug (DEC) Distribution in Pt. Ravishankar University area.

(ii) Faculty and Research scholars participated in the peripheral neuropathy camp held for healthy and diabetic patients (2005).

SoS in Management: Tree Plantations in the campus.

SoS in Physical Education gives services to various school & other agencies for conduction of sports tournaments.

SoS in Psychology: Consulting Services to different institutions counseling and orientations for School Teachers and Students.

### **19. Number of teachers and officers newly recruited:**

<b>SCHOOL</b>	<b>No. of Recruitment</b>
Academic Staff College	02

### **20. Teaching/ non-teaching staff ratio:**

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<b>School of Studies</b>	<b>Ratio</b>
AIH, Culture & Archaeology	1:1
Anthropology	1:1
Biotechnology	4:3
Chemistry	7:8
Comp. Religion & Philosophy	2:1
Computer Science	2:1
Economics	2:1
Electronics	2:3
Education	5:4
Geography	1:1
Geology & WRM	1:2
History	1:1
Law	3:4
Library & Information Science	4:2

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Literature & languages	5:6
Life Sciences	3:2
Management	1:1
Mathematics	3:2
Pharmacy	1:1
Physical Education	1:1
Physics	7:13
Psychology	1:1
Regional Studies	1:1
Sociology	2:1
Statistics	1:1

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### **21. Improvements in the library services:**

After 1/3/03, slowly but firmly, we have made remarkable improvements in library services. In spite of various constrains which still persist, we have tried to overcome the points raised by the NAAC committee. Progress made in this direction is:

Computerization of library is being processed in a phased manner.

In this connection –

Creation of computerized database with Bar-coding of all the books in library has been completed.

On-line Public Access Catalogue has been made available to the readers.

Creation of computerized database of Journals is in progress.

We are ready for computerized circulation also. At present we are testing the circulation module and trying to overcome the procedural difficulties. We hope to start it from it from coming session.

Working on making our OPAC available on Intranet (Campus LAN) and then on web.

From August 05 our library started availing VSAT connectivity, through Campus LAN, for utilization of e-resources under UGC-INFONET e-journals of 21 leading and scholarly publishers of the world.

Text books are purchased as per the recommendation of the Heads of respective SoS and the library committee, based on budget provisions. Students' demands are also considered during text book selection.

Library remains open from 8 AM to 6 PM. Due to lack of staff at present it is not possible to keep it open up to 8 PM. Library remains open on Sundays and other Holidays, excluding three national holidays and Holi (one).

In spite of computerization, we have not compromised with our conventional services, such as card cataloguing, photocopying, manual reference service, and

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acquisition of information on hard copy, etc., for the readers who have yet not changed themselves or facing difficulty in response to new technology.

Improvement is a continuous progress. We are committed to the satisfaction of the readers. We always welcome healthy criticism and valuable suggestions. We assure that with the permission of the University administration, we will always respond positively.

E-Library facilities exist under UGC INFLIBNET Scheme. V-SAT and INFLIBNET facilities have improved the library services.

The faculties of the Institute and Trainee students are regularly provided with the books and study materials through University library. Every year new books on the latest improvement on innovative teaching methodology are purchased by the Institute through University library.

Library is computerized and recently OPAC service is provided to the users of the library.

MBA: Reading Room facility is provided to the students in the MBA Institute besides the central library services.

### **22. Number of new books / journals subscribed and their value:**

#### **Subscribed Journals with price (Year 2006-07)**

Year	Indian Journals		Foreign Journals		Total	
	No. of Journals	Value of Journals	No. of Journals	Value of Journals	No. of Journals (2+4)	Value of Journals (3+5)
2006-07	147	177946.00	67	1336633.00	147	177946.00

### **23. Number of courses for which student assessment of teachers is introduced and the action taken on student feedback:**

Informal student assessment of teacher is practiced

**24. Unit cost of education:**

**UNIT COST OF EDUCATION  
FROM YEAR 2006-2007**

No.	Year	Actual Expenditure Amount (Lac)	No. of Students	Unit Cost of Education (Rs.)
01	2006 - 2007	186.22	1404	13,263.00

**25. Computerization of administration, the process of admissions, examination results, and issue of certificates:**

This is being centrally organized. The University office and all the departments are being provided with the computer facility. Admission is made on merit basis, Result is declared by the examination controller, and certificates are issued by the examination section.

Computerized Mark sheets and Certificates are provided to students.

Following software has been developed by SoS in Computer Science:

Employee Details Database

Paper Revaluation s/w.

Academic, Administration, process of admissions and examination results are computerized in the department as well as in the university.

Administrative work of the Institute is computerized. Admissions for the B. Ed. courses are being done through entrance test conducted by the Vyavsayik Shiksha Mandal. Examinations of the students (trainees) are conducted by the University. After declaration of the result degree/certificate is issued by the University.

MBA Institute administration is largely computerized.

**26. Increase in the infrastructural facilities:**

Separate new buildings for SoS in Anthropology and Geography are under construction.

SOS in Biotechnology purchased the following items:

- a) Spectrophotometer 2
- b) Computers 2
- c) Chromatography column 2
- d) Centrifuge 2
- e) Refrigerators 2
- f) DO analyzer 1

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Comparative Religion & Philosophy - two yoga halls constructed.

Computer Science – Extension of building

<b>Particulars</b>	<b>Additional Building with RCC Roof (Sq. M.)</b>
Instructional Area (Carpet Area)	621.21
Circular & Other Area*	371.89
Total	991.3

\*Circular and other areas include corridors, toilets, Staircases, Common area etc.

Increase in number of computer

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<b>S. No.</b>	<b>Particulars</b>	<b>Availability</b>
01.	No. of Computer Terminals	15
02.	Hardware specification	P-IV-15

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### **Chemistry**

M.Sc. Labs of ORGANIC CHEMISTRY and PHYSICAL CHEMISTRY have been renovated.

Computer room with fifteen desktops is furnished.

### **Electronics**

Present infrastructural facilities include two classrooms, two rooms for four labs, five rooms for staff/office and one girls' toilet. Two big halls and boys' toilets are under construction. They are supposed to be completed by the end march 2007.

### **Institute of Teachers Education**

Presently the Institute of Teachers Education is being run in a part of the Arts Building of the University. However, the construction of a new building of the Institute of Teachers Education is under process. Other facilities are outlined below:

### **Geography**

Purchased computers, GIS software, Satellite imageries and survey instruments

### **Geology**

One Lab and One Staff room was added under extension of building

One Lab of GIS and digital Remote Sensing established.

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### **Library & Information Science**

This year computer laboratory has been prepared in SoS of Library & I. Sc.

### **School of Life Sciences**

Extension of School of Life Science Building (approx. 3600 Sq ft) with (i) UGC support (Rs. 8.00 lac) and (ii) with university internal resources (Rs. 3.00 lac).

### **Management**

First floor of the MBA building comprising of two class rooms, Audio Visual Room, Seminars Hall, EDP Room, Computer Lab facility, toilets for ladies and gents and two rooms for teachers.

### **Mathematics**

Mathematics Department has sifted to its own building

### **Physical Education**

Physical Education: Construction of new building for the department, purchase of equipment, construction of sports grounds are under process.

### **Psychology**

Psychology: Instruments, Text Materials and furniture purchased.

### **Statistics**

Computer, DLP

### **27. Technology up gradation:**

Anthropology - It has imported latest techniques of Molecular Genetics/ Biotechnology

Computer Science

<b>Sr. No.</b>	<b>Particulars</b>	<b>Availability</b>	
01.	No. of Computer Terminals	74	
02.	Hardware specification	P-IV-55, P-III-03, Others-06	
03.	No. of terminals of LAN/WAN	50 with Xeon Server.	
04.	Relevant Legal Software	Application	System

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		COBOL, BASIC, C&C++, PASCAL, Visual Studies Enterprise, Unify, Microsoft Office XP	Windos98, Linux (Mandrake, Turbo, Red Hat), Window XP Professional
05.	Peripheral(s)/ Printers	01 HP Color Laser Jet, 04 Disk Jet, 05 Dot Matrix, 03 Scanners, OHP, LDC Projector	
06.	Internet Accessibility (in kbps & hrs)	Internet Connectivity Though VSAT 512 kbps	

Electronics - Technologies are upgraded every year in the department. It includes Internet facilities, e-classes through audio-visual aids, e-library, Laser optic lab, Analog & Digital lab, Digital Communication lab, Optical Fiber Communication lab, Microprocessor, Microcontroller and Embedded System lab, PC-based Robotics System, virtual instrumentation lab through Lab View software and advanced computing/Digital Signal Processing through latest version of Matlab.

Geography – GIS software and other Audio-Visual aids for teaching and Research.

Library & Information Science – Information Technology has been introduced in all the courses, viz., B. Lib. I. Sc., M. Lib. I. Sc., & M. Phil. Students are working with the latest software 'SOUL' especially developed for libraries by INFLIBNET centre, Ahemdabad.

Management – V-SAT connection with all P-4 computers and latest audio visual techniques used in the class room.

Mathematics – Computer Lab having 11 nodes, with networking has been established.

Psychology – Computers upgraded.

### **28. Computer and internet access and training to teachers and students:**

All SoS are connected with the VSAT facilities thus providing Internet access to all students and teachers of the University. The database of the library is accessible at all departments through <http://prsulibrary/opac> connectivity.

Computer Science - Two Refresher Courses for Faculty was conducted in 2004.

Refresher course in Computer Science

Refresher course in Biotechnology & Computer Science.

Two one day Users awareness s were organized by the SoS in Computer Science, for teachers and student.

On 1/12/04 organized by SoS Computer Science

On 5/09/05 organized jointly by Pt. R. S. U., Raipur and INFLIBNET Centre, Ahmedabad.

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### **29. Financial aid to students:**

Post Metric Scholarship - Eligible students of reserve categories (SC/ST/OBC) are provided with financial support as per the state government norms.

Research Scholarships - Students avail scholarship/ fellowship from various national funding agencies.

Pt. R. S. University Scholarship is provided to M. Phil. and Ph. D. Candidates.

2005-06 Scholarship

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<b>Name of Scholarship</b>	<b>No. of Scholarship</b>	<b>Month/ value amount/ p.m.</b>	<b>Month</b>	<b>Total Amount</b>
Ph.D. Scholarship	20	1000.00 PM	12 Months	240000.00
		3000.00 PA	01 Year	60000.00
M.Phil. Scholarship	20	350.00 PM	10 Months	70000.00
Aid to Tsunami-affected students				
Ph.D.	04	5526.00	12	265248.00
M.A.	03	5224.00	10	156720.00
M.Sc.	01	5710.00	05 Months	29550.00
Nursing	01	3988.00	12 Months	47856.00
Aid to financially weaker student (one time grant)				
M.A.	01			9000.00
Total Rs.				878374.00

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### **30. Activities and support from the Alumni Association:**

School of Life Sciences has registered alumni association and registration for many other SoS is under process. Efforts are being made to make an umbrella alumni association for the UTD. Alumni Meet is conducted every year in MBA. Alumni Association helps in placement summer training and guest lecturer.

### **31. Activities and support from the Parent-teacher Association:**

Parent teacher meetings are regularly organized by many SoS. Due cognizance is given to the feedback received from the parents.

### **32. Health services:**

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*Pt. Ravishankar Shukla University, Raipur, Chhattisgarh*

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Health services to the student and other employees of the various schools are provided by the University Health Centre. It has a Pathology Laboratory.

Psychology: Prevention measures are being taken for Mental and Emotional Health. Relaxation Techniques are taught to the students and they are being helped to solve their personal and academic problems.

### **33. Performance in Sports Activities:**

उत्तर पूर्वी अंतर विश्वविद्यालयीन एवं अखिल भारतीय प्रतियोगिता का विवरण :-

#### **सत्र 2006-2007**

1. सत्र 2006-2007 में पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर के 2/62 महाविद्यालय के 389 खिलाड़ियों ने भाग लिया।
2. पं. रविशंकर शुक्ल विश्वविद्यालय की 41 टीमों ने भाग लिया।
3. उत्तर पूर्वी अंतर विश्वविद्यालयीन बैडमिंटन महिला प्रतियोगिता में पं. रविशंकर विश्वविद्यालय की टीम ने चतुर्थ स्थान प्राप्त किया।
4. उत्तर पूर्वी अंतर विश्वविद्यालयीन महिला खो-खो प्रतियोगिता में तृतीय स्थान प्राप्त किया।
5. अखिल भारतीय अंतर विश्वविद्यालयीन शक्तितोलन प्रतियोगिता में कु. संतोषी मांझी 47 कि. ग्रा. वर्ग में प्रथम स्थान प्राप्त किया।
6. अखिल भारतीय अंतर विश्वविद्यालयीन शक्तितोलन प्रतियोगिता में श्री अमन दीप सिंह गिल ने द्वितीय स्थान प्राप्त किया।
7. अखिल भारतीय अंतर विश्वविद्यालयीन बॉक्सिंग प्रतियोगिता में हिमांशु कुमार 53 कि.ग्रा. वर्ग में द्वितीय स्थान प्राप्त किया।

### **34. Incentives to outstanding sportspersons:**

The university provides its sportsperson with tracksuits and blazers. Winners of zonal, inter-zonal and national events get cash awards. The above get preference at the time of admission on the basis of performance in sports.

### **35. Student achievements and awards:**

University has been organizing Convocation Ceremony regularly. On this day toppers in all subjects and classes are awarded with the gold medals instituted by the University and/or benevolent donors.

#### **I. National Award**

Mr. Ramprakash Rajwade, Young Scientist Award of Convention of Chemist, 2005 (Chemistry)

Mr. G. P. Pandey, Young Scientist award of ISCA, 2006 (Physics)

Mr. Anil Ramteke, Young Scientist award of XVIII Nat. Symp. Chronobiol., 2006 (Life Science)

## **II. State Award**

Ms. Shikha Vishwakarma, Young Scientist award of CCOST, 2003, (Computer Science)

Mr. Ramprakash Rajwade, Young Scientist award of CCOST, 2004 (Chemistry).

Ms. Vaishali Tiwari, Young Scientist award of CCOST, 2005 (Chemistry).

Ms. Swati Shrivastava, Young Scientist award of CCOST, 2005 (Physics)

Mr. Rakesh Kumar Soni, Young Scientist award of CCOST, 2006 (Behavioural Science)

Mr. D. Singh, Young Scientist award of CCOST, 2006 (Pharmacy)

Ms. Manju Rawat, Young Scientist award of CCOST, 2006 (Biotechnology)

Mr. G. P. Pandey, Young Scientist award of CCOST (2006)

### **(iii) Two research students participated in International symposia abroad:**

Nilambra Verma, China, 2006 (Life Science)

Anil Ramteke, Romania, 2006 (Life Science)

### **36. Activities of the Guidance and Counseling unit:**

Management - The latest trends in the industry are identified by the guideline and counseling unit of the Institute. Students are given inputs regarding the subjects of specialization and area of their interest. The strengths and weaknesses of the students are identified and efforts are made to develop their technical as well as presentation skill.

Faculty members provide guidelines and counseling to students appearing in various all India and state level examinations.

Counseling is provided to students to cope up with the pressure of MBA courses.

Pharmacy - Placement and training facility are provided to the students.

Psychology - Student gets career guidance.

### **37. Placement services provided to students:**

Placement Facilities – Full time Training & Placement Officers have been appointed to coordinate the placement activities. Proper guidance is available regarding jobs in leading companies, final semester projects and placement.

Most of MCA students get placement in the Companies in which they complete their Final Semester projects. Some of the companies where students are working: TCS, Mumbai; Price water house cooper (USA); TISCO, Jamshedpur; CMC, Mumbai; Infosys, Bangalore; Ministry of Defense (Govt. of India, New Delhi).

Usually students appear in the competitive examinations and get placement as per their order of merit. They are also encouraged to use online job/placement through internet.

Placement cell of the MBA Institute facilitates the placement activities. Majority of the students get placed through the cell. Three organizations has conducted campus interview in the Pharmacy Institute.

**38. Development for non-teaching staff:**

Computer Training - 2005-06 given to employee of Audit department.

Computer training is provided to non teaching staff also.

Stress Management workshop was conducted for the employee of the University.

**39. Healthy practices of the institution:**

Anti-ragging committees are regularly formed department wise that coordinate with the Central Anti-Ragging Committee at the University level

SC/ST cell continuously monitors and protects the interest of the said community at various levels

Flying squads are regularly constituted to monitor fairness in the conduct of university examination both at the UTD and affiliated colleges

**40. Linkages developed with National / International, Academic / research bodies:**

Linkages were established with different R&D laboratories and academic institutions (refer para 11 above)

**41. Any other relevant information the institution wishes to add:**

- i. Time to time faculty members up grade their knowledge by attending Refresher Course/ Orientation Course.
- ii. Field Training has been incorporated in many subjects to give exposure to the students.

**Computer Science**

AICTE has increased the intake of the Institute from 30 to 60 seats into consideration the increase in the infrastructure and up gradation of technology. A proposal has been sent to the state government for declaring the institute as a "Centre of Excellence" in the field of IT education & research. Efforts are being made for collaboration with foreign universities and technical institutes for course curriculum up gradation and faculty exchange's.

**Electronics**

Photonics has been deemed as the 21st century's revolutionary technology that would create as enormous impact as electronics did in the 20th Century. Lasers and optical electronics have opened up many new opportunities and frontiers of

technology. They have tremendous scope of application in industry, medicine, defence, meteorology, optical communication and information processing. Graduates with training in photonics and related technologies are in high demand. There is and will continue to be a big global demand for skilled people with photonics training. Realizing the rapidly growing needs of well trained manpower in photonics, SoS in Electronics with Physics has decided to start a four semester M. Tech course in Optoelectronics and Laser Technology and a proposal under UGC INNOVATIVE ME: Teaching and Research in Interdisciplinary and Emerging Areas has been submitted to UGC, New Delhi. UGC has accepted the proposal in principle and its final approval is awaited. The aim of the course is to equip its graduates with an excellent knowledge of modern optics, lasers, detectors, optical waveguides, and optical communication and provide a range of experiences in research methods, data analysis, and information technology as they apply to the photonics industry. The basic objective of the course is to fill the gap between what industry demands and what in fact academic institution should give to the students in the field of Optoelectronics and Lasers.

### **Teachers Education**

The Institute of Teachers education is newly established School of Study of the University under self-financed scheme, and it is hardly one year old only. The expenses of the being run by the Institute are met from its own resources.

### **Literature & Languages**

The SoS in Literature and Languages organized student study tour (for non-Hindi speaking Hindi students), sponsored by Central Hindi Directorate, New Delhi.

**PART C: Details of the plans of the Institution for the next year:**

**Future plan of the institution is highlighted below:**

- To introduce Five-year integrated mes in selected subjects to attract young and bright students soon after they pass out 10+2 stage, to instill scientific temper, to prepare the students for pursuing research career in basic subjects.
- To introduce M.Phil. in all subjects to promote research culture in the campus.
- To adopt Semester system in all courses of School of Studies.
- To develop quality benchmarks for various academic and administrative activities of the institution.
- To enhance infrastructure to provide adequate space for Controller office, administrative block, research lab, seminar hall, class rooms for the newly started courses and acquiring a new vehicles to cater to the needs of the administration & examination.
- To initiate functional virtual class rooms with help of EVER “O” NN, a technology based education centre, to provide courses on English Enhancement and Software Testing to students.
- To update University web-site.
- To create and foster an environment conducive for research by encouraging staff to undertake minor and major research projects, disseminating of information on various research agencies and grants provided by them and conducting input sessions on quality enhancement through research.
- To augment infrastructural facilities in library and subscribing to more number of journals for the benefit of the staff and students.
- To encourage faculty to publish their research outcome.
- To introduce and to operate redress grievances cell.

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- To provide students with the exposure to contemporary social reality through extension me and facilitating community empowerment through a convergence and involvement of various departments.
- To evolve standard and effective assessment procedures for evaluating projects in PG courses.
- To explore possibilities of innovations in course structure and syllabi to meet the growing demands of employer and introducing ICT to make teaching-learning process effective.
- To develop revised questionnaire for student feedback on teaching-learning to ensure quality in teaching.
- To promote student-centered learning and using new technology to enhance the teaching-learning process.

**Dr. A.K. Gupta**  
CO-ORDINATOR, IQAC

**Prof. S.K. Pandey**  
VICE-CHANCELLOR