

Departmental Profile

1. **Name of the Department**-MATHEMATICS

2. **Year of Establishment** –U.G. – 1948 , P.G. - 1956

3. **Infrastructure-**

(a) **Class Rooms available** –02class rooms (Size 30’ x 20’ Sq. ft.) and 1 research room(Size 30’ x 30’ Sq. ft.)

(b) **Laboratories**– 01 computer lab of capacity of 20 students (Size 12’ x 16’ Sq. ft.)

(c) **List of Equipments lab wise** –16 Computers.

(d) **Details of Departmental Library**

Year	Books Purchased	Journal		CD's	e resources Subscribed	e journal Subscribed	Thesis
		National	International				
2013-14	Nil						
2014-15	Nil						
2015-16	Nil						
2016-17	44						
2017-18	42						

4. **Courses offered-**

Year	Courses	Intake			Actual enrolment			New courses offered
		UG	PG	Ph.D.	UG	PG	Ph.D.	
		UG	PG	Ph.D.	UG	PG	Ph.D.	NIL
2013-14		380	30		380	30	03	NIL
2014-15		380	30		380	30		NIL
2015-16		380	30		380	30		NIL
2016-17		380	30		380	30		NIL
2017-18		380	30		380	30		NIL

Note:- following combination are available with Mathematics:-

1. Mathematics, Physics , Chemistry
2. Mathematics , Physics , Geology
3. Mathematics , Physics , Defence Studies
4. Mathematics , Physics, Information Technology
5. Mathematics , Physics, Computer Science

5. Faculty Strength

No. of Teachers Available	Year				
	2013-14	2014-15	2015-16	2016-17	2017-18
Professors	01	01	01	01	01
Asstt. Professors	06	06	06	06	07
Regular staff					
Adhoc	NIL	NIL	NIL	NIL	NIL
Contractual	NIL	NIL	NIL	NIL	NIL
Guest faculty	NIL	NIL	NIL	NIL	NIL
Visiting Faculty	NIL	NIL	NIL	NIL	NIL

Annexure

List of Faculty

Name	Designation	Qualification	Pay	Total experiences	No. of years in the college
Dr.S.K Bhatt	Professor	M.Sc.,Ph.D		35	15
R.A. Siddiqui	Asstt.Professor	M.Sc		24	20
Dr.VarshaKaranjgaokar	Asstt.Professor	M.Sc., M. Phil., Ph.D		28	20
Dr. B.P Tripathi	Asstt.Professor	M.Sc.,Ph.D, MCA		25	6 year
Dr.Mahendra Prasad	Asstt.Professor	M.Sc.,Ph.D		25	15
Dr.M.S GUPTA	Asstt.Professor	M.Sc.,Ph.D,MCA			
Prof Ashok Kumar	Asstt.Professor	M.Sc, NET(CSIR),SET(C.G)		06	01
NidhiDewangan	AssttRprofessor	M.Sc. M. Phil		06	01

6. Sanctioned , working strength and Vacant position (Faculty)

Category	Sanctioned			Working			Vacant			Grant total
	Prof.	Asstt. Prof.	Total	Prof.	Asstt. Prof.	Total	Prof.	Asstt. Prof.	Total	
Regular	01	07	08	01	07	08	NIL	NIL	NIL	08
Contract basis	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

7. Qualification of Faculty

Category	No. of Ph.D.	No. Of M. Phil	Other	Total
Regular	05	01	02	08
Contract basis	Nil	NIL	NIL	NIL

8. Non Teaching Staff-

- (i) Sanctioned- 02
- (ii) Working – List to be provided in Annexure
- (iii) Vacant –NIL

9. Research Profile

Year	Research Publication	Research projects	Seminar/conference/workshop/ synopsis	Other research and consultancy related activity
2013-14	14	Nil	01	Nil
2014-15	21	Nil	01	Nil
2015-16	26	Nil	01	Nil
2016-17	04	Nil		Nil
2017-18	12	Nil	02	Nil

Annexure to be prepared

Research Publication

S.No.	Name	Year	Title	Name of Journal	Volume	Page no.
1	Dr.S.K Bhatt			List attached		
2	R.A. Siddiqui			List attached		
3	Dr.VarshaKaranjgaokar			List attached		
4	Dr. G.S. Saluja			List attached		
5	Dr. B.P Tripathi			List attached		
6	Dr.Mahendra Prasad			List attached		
7	Dr.M.S.Gupta			List attached		
8	Prof Ashok Kumar			List attached		
9	NidhiDewangan			List attached		

Research project

S.No.	Name	Year	Title of the project	Funding agency
1			Nil	

Seminar/ Conference/ Workshop/ Symposia

Name of the Department	Year	Title of the Seminar/ Workshop	Funding agency
Mathematics	06-07 Sept., 2013	National Workshop on Mathematical Modelling of Stochastic and Fuzzy System	By CPE, by registration and College Janbhagidari
Mathematics. IT and Computer Science	5-6 Oct. 2017	Cryptography and network security system	UGC regional office Bhopal, by registration and College Janbhagidari
Mathematics	22 Dec. 2014	Contribution of Ramanujan in Mathematics	CGCOST, Raipur
Mathematics	22 Dec. 2015	Ramanujan's problems and their solutions	CGCOST, Raipur
Mathematics	13,14 &15 Jan2018	Three days INMO problem solving workshop	CGCOST, Raipur

10. Teaching learning methods adopted by the department List the methods.

- I. Chalk And Talk.
- II. By LCD projector.
- III. Seminar by students.

11. Achievements of students (Provide details separately)

Year	Examination	Co curricular activities	Extracurricular activities
2013-14	B.Sc. III Year 62% M.Sc. 95.8%	Dheerendra Mishra And NihalSahu Of B.Sc Part 1 Participated Instate Level Workshop On Mathematicson 25 November 2013	
2014-15	B.Sc. III Year 89% M.Sc. 100%		
2015-16	B.Sc. III Year 80% M.Sc. 96.4%	<ul style="list-style-type: none"> 18 Students participated in Madhav Mathematics competition organized by department of mathematics S.P.College, Pune and T.I.F.R Mumbai. Student of M.Sc. passed in 2016 SubratPradhan have been selected in CGPSC in 2018 as a Deputy Collector. 	
2016-17	B.Sc. III Year 62% M.Sc. 96.5%		
2017-18	B.Sc. III Year 92.87% M.Sc. 100%	<ul style="list-style-type: none"> Pranjali Singh RajpurOfB.Sc. Final Year received the Chhattisgarh Chief Minister Award of Rs. 25000/-. Pranjali Singh Rajpurof B.Sc. Final Year participated in annual N.C.C. Republic Day Camp at New-Delhi from 1st January to 29th January 2018. 	

Annexure enlist separately

12. Achievements of Teacher.

Year	Achievement of Teachers	Enclose Details Separately
2013-14	Dr. S.K. Bhatt <ul style="list-style-type: none"> Examiner of Ph.D. viva-vice in BarkatullaUniversity Bhopal. Conducted the confidentially work of M.P. Professional Examination Board. 	
2014-15	Dr. S.K. Bhatt <ul style="list-style-type: none"> Member of Board of Studies in Govt. MH College of Home Science and Science Jabalpur., Pt. RavishankarShukla University Raipur, Govt DB Girls College Raipur. Delivered lecture in KhoobchandBaghel College Bhilai 03 Examiner of Ph.D. viva-voce in Bundelkhand University Jhansi. Dr Mrs VarshaKaranjgaokar <ul style="list-style-type: none"> Invited as a Chief Guest and as a speaker in National Mathematics day celebration on 22/12/14in JawaharNavodayVidyalaya ,Raipur. Dr. M.S. Gupta <ul style="list-style-type: none"> Expert in XIII Chhattisgarh Young Scientist Congress 2015. 	
2015-16	Dr. S.K. Bhatt <ul style="list-style-type: none"> Invited as a resource person in UGC sponsored National Seminar on 22, 23/01/2016 organized by Government Dr. BSBA College Dongargaon. Member of Board of studies and Examination committee of Pt. RavishankarShukla University Raipur. Dr Mrs VarshaKaranjgaokar <ul style="list-style-type: none"> Invited to deliver a lecture on “Applications of Operations Rearch to Industry” on 	

	<p>4/4/16 in Govt. D.B. Girls College ,Raipur.</p> <ul style="list-style-type: none"> Invited to deliver a lecture by Govt College Dharsiwa, on 16/11/16. <p>Dr. B.P. Tripathi</p> <ul style="list-style-type: none"> Delivered a lecture on the topic “ Complex Analysis” at Govt. D.B. Girls College, Raipur. 	
2016-17	<p>Dr Mrs VarshaKaranjgaokar</p> <ul style="list-style-type: none"> Invited to deliver a lecture on “Mathematics for CompititiveExams ” by carrier council cell ,Govt.K. H. College ,Abhanpur on 2/2/17. Invited to deliver a lecture on “Nonlinear Programming Problems” by GovtRadhabaiNavin girls College ,Raipur on 7/2/17. Member of Board of studies and Examination committee of Pt. RavishankarShukla University Raipur. <p>Dr. B.P. Tripathi</p> <ul style="list-style-type: none"> Delivered a lecture on the topic“ Set theory and Algebraic Structure” on 16 october 2016 at Govt. Pt. ShyamaCharanshukla College, Dharsiwa, Raipur. 	
2017-18	<p>Dr. S.K Bhatt</p> <ul style="list-style-type: none"> Member Of Governing Body Of ISBM University Gariyaband. Member Of Board of Study in Govt. Digvijaya Collage, Rajnandgaon. Member Of inspection committee of subject affiliation, PRSU Raipur. Member of Examination committee, PRSU Raipur. Done Confidential work of CGPSC. <p>Dr Mrs VarshaKaranjgaokar</p> <ul style="list-style-type: none"> Invited to deliver a lecture on National Mathematics Day celebration on 22/12/17 in Govt. D.B. Girls College ,Raipur. Appointed as Judge by CBSE for regional level model exhibition from 6-8 Jan 2018. <p>Prof. A.K. Adil</p> <ul style="list-style-type: none"> Member of board of studies in Pt.RavishankarShukla University Raipur. <p>Dr. B.P. Tripathi</p> <ul style="list-style-type: none"> Co-ordinator inspection committee of subject affiliation, Sarguja University Ambikapur. 	

13. Research scholars enrolled/ Ph. D. Awarded

Year	Name of Supervisor	Research Scholars enrolled	Research completed & Ph.D. awarded
2013-14	Dr. B P Tripathi	Rais Ahmed Siddiqui (Date of Registration 12.03.2014)	Thesis would be submitted by 12.03.2019
2014-15	Dr. B P Tripathi	Khushboo Thakur (Date of Registration 22.11.2014)	Thesis submitted in Month of Aug 2017
2015-16			
2016-17			
2017-18	Dr. B P Tripathi	Khushboo Thakur	Thesis submitted in Month of Aug 2017
	Dr. B P Tripathi	Afsan Butt (CV/52512/2651) Date:30.03.2013	Ph. D. Awarded
	Dr. B P Tripathi	ShrutiNathani	DRC held on 05.02.2018
	Dr VarshaKaranjgoakar	NamrataShrivastav	DRC held on 05.02.2018
	Dr. B P Tripathi	RenukaSahu	DRC held on 05.02.2018

Annexure enlist separately

Name of Supervisor	Title of the Research	Year of Registration	Year of Completion/ Ph.D. awarded
Dr. B P.Tripathi	“A study on NTRU public key Cryptosystem and their variants”	22.11.2014	2019 Ph.D. awarded
Dr. B P.Tripathi	“Optimization of time and cost for linear and non-linear problem”	2013	2018 Ph.D. awarded

14. Board of studies Meeting-

Year	Date of meeting	Resolution passed	Remarks
2013-14	30.10.2013, 13.03.2014	UG & PG syllabus approved.	Meeting Details attached
2014-15	13.03.2014, 05.03.2015	UG & PG syllabus approved and approval of, to change the question paper pattern of B.Sc. I.	Meeting Details attached
2015-16	26.02.2016	UG & PG syllabus approved and approval of, to change the question paper pattern of B.Sc. II.	Meeting Details attached
2016-17	01.04.2017	UG & PG syllabus approved and approval of, to change the question paper pattern of B.Sc. III.	Meeting Details attached
2017-18	26.04.2018	UG & PG syllabus approved and approval of, to change the question paper pattern of M.Sc. I &II Sem.	Meeting Details attached

15. Selection of students for admission-

Year	Total application received	Admission given to candidate of minimum % on merit
2013-14	Through Central Counselling	
2014-15	Through Central Counselling	
2015-16	PG- 253	61%
2016-17	PG- 287	62%
2017-18	PG- 275	60%

16. Selection of contract appointment of teachers

Year	No. of Posts vacant	Application received	Appointment given to candidate on merit
2013-14	Nil		

2014-15	Nil		
2015-16	Nil		
2016-17	Nil		
2017-18	Nil		

17. Extension activities done by the Department-

Year	Name of extension activity	Target group	Funds received from
2013-14	Lectures of renowned mathematician Dr. S. D. Tripathi from HRI Allahabad , Dr. Shiv Dutt Tripathi from MNIT Allahabad , Dr. Rajesh Tiwari from Model Science college Jabalpur , Dr. Nidhi Chaubey , Dr. Sudipta Sanyal from Home science College Jabalpur and Dr. P Jha , Dr. Sanjay Kumar , Dr. B S Thakur, Dr. Premchand were arranged .	Students of M.Sc. and B.Sc. classes of mathematics	Centre with potential for excellence Delhi
	Guided the students of class 10 th 11 th 12 th of Raipur by M.Sc. students and teaching staff.	Weak students of school (class 10 th 11 th and 12 th)	CPE Delhi
2014-15	Guidance for the school students of class 10 th 11 th 12 th by M.Sc. Mathematics students and teaching staff.	Weak students of school (class 10 th 11 th and 12 th)	CPE Delhi
	An essay Competition on “Students are building blocks for good governance nation building” was organized on 13/01/2015. 1 st prize of cash Rs. 10000/- was given to student Pratima Sahu of Chemistry Department.		Sponsored by NTPC
	On 22 nd December 2014 National Mathematical Day celebrated jointly Chhattisgarh Council of Science & Technology & Department of Mathematics, Govt. N.P.G. college of Science, Raipur.	Students of M.Sc. and B.Sc. classes of mathematics	Sponsored by CGCOST
2015-16	On 22 nd December 2015 National Mathematics Day jointly celebrated by Chhattisgarh Council of Science & Technology, Raipur and Department of Mathematics, Govt. NPG College of Science, Raipur.	Students of M.Sc. and B.Sc. classes of mathematics	Sponsored by CGCOST
2016-17			
2017-18	Coaching for NET in mathematics arranged		

Annexure- Report & Photographs (Attached)

18. Facilities of recreation activities-

List of facilities available with the Department

Year	Recreation facilities developed	Funds received from
2013-14	Nil	
2014-15	Nil	
2015-16	Nil	

2016-17	Nil	
2017-18	Nil	

19. Innovative reforms of the Department-

List of innovative practices under way in the department

Year	Innovative reforms taken	Target group	Impact of reform
2013-14	Nil		
2014-15	Nil		
2015-16	Nil		
2016-17	Nil		
2017-18	Nil		

20. Achievements of the Department-

S. No.	Items	Status before autonomy	Status at present
1	UG intake	380	380
2	PG intake	30	30
3	UG Programmes		
4	PG Programmes	01	01
5	M.Phil/ Ph.D.	Nil	05
6	Research publication	98	77
7	Research projects	Nil	Applied for Research Project
8	Organizing seminar/ Conferences	01	05
9	Attending seminar/ conference	45	49
10	Extension activities	Nil	04
11	Consultancy	Nil	Nil
12	Faculty	06	08
13	Faculty with Ph.D.	06	05
14	Infrastructure	2 Class Rooms	2 Class Room +1 Research Room
15	Library	No. Of Books 3500	No. Of Books 3586
16	Result analysis		
17	Placement		
18	Any other Ph.D. Examiner	Nil	02

Administrative Activities

Academic council

Year	Meeting of Committee	Date of meeting	Resolution passes
2013-14		22/06/2013	Attached
2014-15		03/05/2014	Attached
2015-16		12/05/2015	Attached
2016-17		07/09/2016	Attached
2017-18		21/09/2017	Attached

Finance Committee

Year	Meeting of Committee	Date of meeting	Resolution passes
2013-14		14/05/2013, 03/01/2014, 21/01/2014	Attached
2014-15		12/05/2014	Attached
2015-16		13/05/2015	Attached
2016-17		01/05/2017	Attached
2017-18		22/11/2017	Attached

Departmental Board of studies(Enclosure Copy of orders)

Year	Meeting of Committee	Date of meeting	Resolution passes
2013-14	Copy of members university nominee and academic council attached.		
2014-15			
2015-16			
2016-17			
2017-18			

Governing Body- Due to not receiving the nominee of govt. & UGC the Governing Body could not be constituted after 2013. In this regard several correspondence made by the college administration to concerning authorities.

Appendix- minutes of meeting of each Committee. - attached

Appendix- Admission Policy -AS PER THE GOVT RULES

Course wise fee structure
(Prospectus to be enclosed) ATTACHED

Govt. Rules of UG & PG admission

Autonomous status detail -

01- Autonomy is valid up to 2012-13 by file number F22-1/2007(AC) 2007 of University Grants commission Bahadur Shah Zafar Marg, New Delhi .

Letter Attached

02- Committee of Pt. Ravishankar Shukla University Raipur recommended the continuity of the autonomous status for the period of 1 July 2013 to 30 June 2018 .

Status of accreditation- accredited in 2014 with CGPA of 2.81 on four point scale and received B grade and valid up to May 04, 2019.

Letter Attached

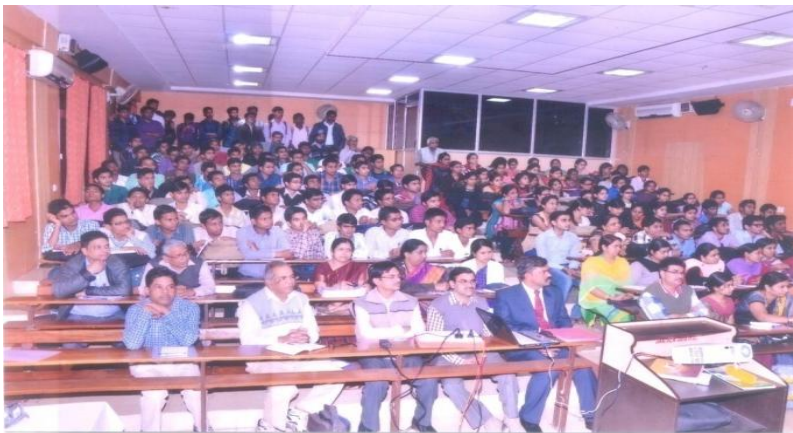
EXTENSION ACTIVITIES

To remove the fear of Mathematics among the students of higher secondary and for the solution of the problems in Mathematics one day workshop organized in Govt. High School, Heerapur on 15.11.2014, Govt. High School, Gogaon on 07.02.2015, Govt. High School, ChangoraBhata on 14.02.2015. In this program nearly 100, 140, 86 respectively Students appeared.



TRAINING WORKSHOP/SEMINAR

On 22nd December 2014 National Mathematics Day celebrated jointly Chhattisgarh Council of Science & Technology & Department of Mathematics, Govt. N.P.G. college of Science, Raipur. On this occasion Dr. H.P. Dixit, Ex-Vice Chancellor, Indira Gandhi open University, Delhi & Dr. Sanjay Kumar Patel from Mumbai both Mathematician thrown the light over the unsolved problems of Ramanujan.



TRAINING WORKSHOP/SEMINAR YEAR WISE- On 22nd December 2015 National Mathematics Day jointly celebrated by Chhattisgarh Council of Science & Technology, Raipur and Department of Mathematics, Govt. NPG College of Science, Raipur. On this occasion Prof. K. S. Bairy, Vijya College, Bangalore delivered the lecture on Contribution of Ramanujan in development of Mathematics. He elaborated the solution of some unsolved problem of Ramanujan & explain the work of Ramanujan in detail. An essay competition was organized on this occasion nearly 100 students, scholars and faculty were present.







