GOVT. GIRLS' COLLEGE, AJMER (NAAC ACCREDITATED GRADE 'B') Affiliated with M.D.S. University, Ajmer





Under Graduate Department of SCIENCE

Departmental Profile

2017-2022

1. Scope and importance of the departments:

Department of Botany

Programme Outcome

 To inculcate in students the scientific study of plants which in learn is used in many aspects of human life. Plants are necessary for supporting all life forms on earth, either directly or indirectly. Its study helps in better understanding of ourselves at the cellular and genetic level.

Course Outcomes

- Students will be able to define and explain major concepts in the biological sciences.
- It will help the student to use biological instruments in the proper and correct way.
- It will enable the students to explain and apply the scientific method including designing and conducting experiments and testing hypotheses.
- Students will be able to communicate biological knowledge in oral and written form.

Department of Zoology

Programme Outcome

- To understand the nature and basic concepts of Zoology. To understand the analysis of relationships among animals, plants, microbes and the environment.
- It provides insight into how "Life" works and consequently, how we work. The concept of students is cleared in the laboratory of Bio-Science.

Course Outcomes

- Students will be able to demonstrate the ability to read, understand and critically review scientific information
- Students will be able to demonstrate ethical conduct in scientific activity.
- Students will be able to recognize the relationship between structure and function at all levels: molecular, cellular and organism.

Department of Chemistry

Programme Outcome

 Students will demonstrate an understanding of major concepts in all disciplines of chemistry

- Students will employ critical thinking and the scientific method to design, carry out, record and analyze the results of chemical experiments and get an awareness of the impact of chemistry on the environment, society and cultures outside the specific community.
 Programme Specific Outcome
- The ability to explain chemical nomenclature, structure, reactivity and function in their specific field of chemistry.
- The design and execution of the experiment should demonstrate an understanding of good laboratories and the proper handling of chemical waste streams and also explain how the applications of Chemistry relate to the real world.

Course Outcomes

- Students will gain an understanding of methods of analysis related to chemical analysis goals such as detection of elements.
- Enable the students to get understand the laws of thermodynamics and the Computer C Programming.
- After completing this course, students must have a basic knowledge of textile chemistry for an understanding of the chemical structure and properties of textile fibers and the properties of textile percipients and dyes.
- To understand the principles of radioactivity.
- To study the magnetic properties of molecules, chemical kinetics and photochemistry.
- To enable the students to learn about classification of polymersmethods of preparation of polymers, different types of polymerization, molecular weight of polymers.
- Students learn about electrochemistry.

Department of Mathematics

Course Outcomes:

- Demonstrate basic manipulative skills in algebra, geometry, trigonometry and beginning calculus.
- Apply the underlying unifying structures of mathematics and the relationships among them.
- Demonstrate proficiency in writing proofs.
- Investigate and apply mathematics problems and solutions in a variety of contexts related to science, technology, business and industry and illustrate these solutions using symbolic, numeric or graphical methods.
- Students can understand the foundation of Mathematics.
- They are able to perform basic computation in higher Mathematics.
- Students are able to develop problem solving skills
- They are able to communicate Mathematical ideas with others.

 They can enhance the quality of analysis and research in different mathematical fields. Operations research can develop the management quality in different industries and factories.

Department of Physics

Programme Outcome

- Physics is a branch of science that studies matter and its motion through space and time, along with related concepts such as energy and force. Physics is one of the fundamental sciences because the other natural sciences deal with systems that seem to obey the law of Physics. According to Physics, the physical laws of matter, energy and the fundamental forces of nature govern the interactions between particles and physical entities (such as plants, molecules, atoms or the subatomic particles).
- Physics deals with a wide variety of systems, certain theories are used by all physicists. Each of these theories were experimentally tested numerous times and found to be an adequate approximation of nature.
- Physics uses mathematics to organize and formulate experimental results and from which new predictions can be made.
- The results from physics experiments are numerical measurements.
 Technologies based on mathematics, made computational physics an active area of research.

Programme Specific Outcome

- The theory of classical mechanics accurately describes the motion of objects, provided they are much larger than atoms and moving at much less than the speed of light.
- To provide the detail study of atom and the behavior of atom in various states.

Course Outcomes

- The students will demonstrate a scientific knowledge of the core physics principles in Mechanics, Electromagnetism, Modern Physics and Optics.
- The student will determine the appropriate level of technology for use in experimental design and implementation, analysis of experimental data and numerical and mathematical methods in problem solutions.
- The students will demonstrate a purposeful knowledge of scientific literature and ethical issues related to physics.
- The students will effectively communicate their knowledge of physics from basic concepts to specific detailed presentations through a variety of oral, written and computational modalities.
- To acquire the basic knowledge of mechanics, properties of matter and Gravitation.
- Learn motion of bodies and sound waves.

- To inspire interest for the knowledge of concepts in physical and Geometrical physics.
- 2. Introduction of department:
 - The Science department plays a pivotal role in shaping our understanding of the natural world and advancing human knowledge.
 - It encompasses a wide range of disciplines including Chemistry, Physics, Mathematics, Botany and Zoology among others.
 - The science department covers an extensive scope of knowledge and research providing a comprehensive understanding of the world around us.
 - It investigates the fundamental laws of nature, explores the mysteries if the universe and delves into the intricate mechanism of life.
- 3. Year of Establishment: 1994. (UG)
- 4. Detail of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph.D., Short term courses, Career oriented courses, etc. (Current academic year)

Sr. No	Programme level	Name of the programme/ Course	Duration	Entry qualification	Medium of Instruction	Sanctioned/ Approved student strength	No. of Student admitted
1	UG	B.Sc. (Bio)	3 Years	12th Pass(PCM)	Hindi/English	88	88
2	UG	B.Sc. (Maths)	3 Years	12th Pass(CBZ)	Hindi/English	88	88

5. Annual/ semester/choice based credit system/elective course pattern (programme wise)

Programme	Pattern	Year of Implementation
B.Sc. (PCM)	Yearly	1996-97
B.Sc. (CBZ)	Yearly	1996-97

6. Number of Teaching and Non-teaching positions in the department

Designation	Department	Sanctioned	Filled
Professors	Zoology	1	1
Asst. Professors	Botany	1	1

Asst. Professors	Chemistry	2	1
Asst. Professors	Mathematics	1	1
Asst. Professors	Physics	1	1

7. Faculty profile with name, qualification, designation, specialization, (Ph.D. / M. Phil. etc.,)

Sr.	Name of faculty	Qualification	Year of appointment	Designation	Specialization	Numl years teach exper (Year mont)	of ing ience and
1	Dr. Kalpana Sharma	M.Sc. Ph.D.	1999	Professor	Zoology	24	04
2	Dr. Anita Lubana	M.Sc. M.Phil Ph.D.	2003	Assistant Professor	Botony	20	04
3	Dr. Pawan Chanchal	M.Sc. M.Phil Ph.D.	2008	Assistant Professor	Mathematics	15	
4	Miss Kavita Singh Choudhary	M.Sc. NET	2022	Assistant Professor	Chemistry	0	8
5	Mr. Jai Ram	M.Sc. NET	2022	Assistant Professor	Physics	0	8

- 8. List of senior visiting faculty (If any) NIL
- 9. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Post	Sanctioned	Filled
Lab Assistant	_	2
Lab Boy		1

10.0ngoing /completed research projects by faculty funded by governmental and non-governmental agencies (Last five years)

Sr. No	Name of the principal investigator	Duration of the project	Name of the research project	Amount fund received	Name of funding agency	Year of sanction	Dept. of recipient

11.Research papers published in journals notified on UGC website (Last five years)

Sr N o.	Name of Facult y	Name of Journal	Title of Research Paper	ISSN/ ISBN No.	Wheth er peer review ed. Impac t Factor, if any
1	Dr. Kalpa na Shar ma	Journal Of Natural Science, referred International Journal	A herbal remedy for diabetic persons: Stevia Rebaudina.	2320-4346, 2017	
2		Journal Of Natural Science, referred International Journal	Impact of textile industry waste on environment in Pali district of Rajasthan: An overview.	2320-4346, 2017	
3		Journal Of Natural Science, referred International Journal	Influence of prenatal exposure to tritiated water on the postnatal development in Swiss albino mice. 17-23	2320-4346, 2017	
4		Journal Of Natural Science, referred International Journal	Estimation of cadmium in vegetable foodstuffs in Jaipur (India).	2320-4346, 2018	
5		Journal Of Natural Science, referred International Journal	Effect of prenatal exposure to HTO on the postnatal development of mouse offsprings.	2320-4346, 2018	
6		Journal Of Natural Science,	Mathematical computation of	2320-4346, 2018	

		referred International Journal	water quality index of Ummed Sagar dam (A water reservoir) at Shahpura, Bhilwara of Rajasthan. 11-16		
7		In The Proceedings Of 14th Indo-Japan International Conference 2019	Ovicidal Activity Of Some Biopesticides On Spodoteralitura.	ISBN: 978-93-83462-95-7 Year 2019	
8		14th Biyani International Conference (BICON 19)	Ovicidal activity of some Biopesticides on spodoteralitura. 2019, 86-87	ISBN 978-93-83462-95-7, 2019	
9	Dr. Anita Luban a	Journal of TURKISH SCIENCE EDUCATION ISSN:1304-6020	Determining Students' Intention: The Role of Students' Attitude and Science Curriculum: www.researchgate. net/pu blication/33721101 8	Volume 16, Issue 3, 06.05.2019 DOI:10.12973/tused .10284a)	ssue 3, 2019, 314- 324 1.781
10		Accent Journal of Economics Ecology & Engineering ISSN-2456-1037	Bio-Diversity	Research foundation of India-ISBN 978-93- 88746-01-4	2019 1.169
11		Practitioner Research ISSN: 2710-706x E-ISSN: 2811-3454	COGNITIVE AUTONOMY DIFFERENCES AMONG ADOLESCENTS IN MALAYSIA: INSIGHTS FOR CLASSROOM PRACTICES	Vol. 1/ July, 2019	Volum e-1/ 229- 245

12		Research foundation of India-ISBN 978-93-89522-01-3	Eco-Innovation	RFI/ICIR/2019/135	
13		South Asian Journal of Social Science and humanities. ISSN: 2582-7065	The relationship of personality traits and Academic and Social selfefficacies of learning disabilities: www.researchgate. net/p ublication/344986 091	Published- 10.08.2020, Vol:1, Issue:1, pp.09-24	
14		Indonesian Journal of Education Methods Development 5(1)	Cognitive Autonomy Differences among Adolescents in Malaysia: www.researchgate. net/p ublication/337136 982	Feb, 2019, Vol 05. DOI:10.21070/ijemd .v3i2.14	Pages 01-10
15	Dr. Pawan Chanc hal	International Journal of Advanced Research and Development www.advancedjourn al.com	New subclass of univalent function associated with a	ISSN NO: 2455- 4030 Volume 2, Issue 4, July 2017 pp. 299- 304	Impac t Factor : RJIF 5.24
16			ANew Subclass of Meromorphic Starlike Functions Associated		Volum e 3, Issue 8 Augus t 2017
17		International journal Of Trend in Research and	On A new Subclass of Multivalent Function		Volum e 4(5)

	Development www.ijtrd.com	Defined by Generalized Ruscheweyh Derivatives Pawan Chanchal and A.K. Arora		Sep Oct. 2017
18	Of Research and	Negative Coefficientsand	T 7001 1000	Volum e 4, Issue 3, July- Sep. 2017
19	Of Mathematics	Duality of "Some Famous IntegralTransforms" from the polynomial Integral Transform. Priti Choudhary, Pawan Chanchal, Yogesh Khandelwal and Hoshiyar Singh	ISSN NO: 2231- 5373	Volum e 55, Numb er 5, March 2018
20	Journal Of Interdisciplinary sciences		https://doi.org/10.15415/mjis.2 018.71006 ISSN: 2278-9561 (Print)	Vol. 7, No. 1,Sep. 2018, pp. 37-44
21	International Journal Of Management,Techn ology and Engineering	PerturbationMahgoubTra	ISSN NO.2249-7455	Volum e IX, Issue IV, April / 2019
22	International Journal Of Management,Tech nology and Engineering	The Mohand Transform of Derived Function Demonstrated by HeavisideFunction Yogesh Khandelwal, Pawan Chanchal, Hoshiyar Singh and A.K. Joshi		Volum e IX, Issue IV, April 2019
23	International	A study of Kamal	ISSN NO.2249-7455	Volum

	Journal Of Management,Tech nology and Engineering	Homotopy Perturbation Method for Advection Problems Yogesh Khandelwal, Pawan Chanchal, Hoshiyar Singh and Vaishali Meena		e IX, Issue IV, April 2019
24	International Journal Of Research in Electronics and Computer Engineering	Chain of Kamal Transform and Homotop Perturbation Method for Solving Burger's Equation Yogesh Khandelwal, Pawan Chanchal, Hoshiyar Singh and Rishabh Chandak	ISSN: 2393-9028 (Print) ISSN: 2348-2281 (Online)	VOL. 7 ISSUE 2 (APRIL - JUNE 2019)
25	International Journal Of Research in Electronics and Computer Engineering	The Mahgoub Transform of Derived Function Demonstrated by Heaviside Function Yogesh Khandelwal, Pawan Chanchal, Hoshiyar Singh and Akanksha Dhillon	ISSN: 2393-9028 (Print) ISSN: 2348-2281 (Online)	VOL. 7 ISSUE 2 (APRIL - JUNE 2019)
26	Advances in Mathematics: Scientific Journal (International Journal)	homotopy perturbation	https://doi.org/10.37418/amsj.9.4. 57 ISSN: 1857-8365 (printed); 1857-8438 (electronic)	9 (2020), no.4, 1983– 1995

12.Research papers published in National/International Conference-proceedings

		Name of the Conference Seminar	Title of Research Paper	ISSN/ ISBN	Place & Date
1	Dr.	International Conference	Evaluation of anti- cancer activity of		5-7 Oct 2017

	Kalpana Sharma	On Fight Against Cancer	delonix regia extract against chemical induced skin carcinogenesis in mammal	
2		International Conference On Gandhi: The Eternal Truth, ICOG 2019	Gandhian Values In The Context Of Value Education.	18-19 Sept. 2019
3		In The Proceedings Of 14th Indo-Japan International Conference 2019	Ovicidal Activity Of Some Biopesticides On Spodoteralitura.	25th Sept. 2019
4		International Conference on Multidisciplinary approaches to environmental research for human health.	Health effects of indoor air pollution in rural areas	2021
5		International Conference On Radiation Biology	Skeletal Malformations in fetuses after in utero exposure to tritiated water in Swiss Albino mice	2022
6		International Conference On Environment, Sustainable Development and Human Health	A birds eye view on Bioremediation	2022
7		National Conference on Environment: issues, challenges and strategies.	Environmental challenges: An Overview	1-2 Oct. 2018
8		National Conference on " Water quality, biodiversity, global environmental issues and solutions	Ecotourism and its impact on socio-economic development with special reference to India	2022

9		National E-conference on "Gandhi chintan: vecharic swatantray"	Environmental thoughts of Gandhi	2022
10	Dr. Anita Lubana	National	Beneficial impactsof Eco- Tourism	30.11.2017 to 01.12.2017
11		International	Bio-Diversity	23.02.2019 to 24.02.2019
12			Gandhi- The environmentalist	18.09.2019 to 19.09.2019
13		International- Innovative Research on engg., Science, Phar., Humanities and management	Eco-Innovation	27.09.2019 to 28.09.2019
14		International- Emerging challenges, their solution and recent advances in Science	Nano- Biotechnology	04.10.2019 to 05.10.2019
15		E-SEMINAR-GGC., Ajmer	Effect of new education policy in higher education	08.01.2021 to 09.01.2021
16		E-SEMINAR- Dept. of Botany and Zoology- Dominant college of Education, Dausa	Eco-system	05.06.2021
17		Multidisciplinar y approach towards sustainable development	Bioremediation of Environmental pollutant	12.08.2022 to 14.08.2022

		and climate change for viable future		
18		Issues challenges and oppurtunities- Rashtriya Shilksha Niti	Rashtriya Shiksha Niti-2020: Challenges in implimentation	01.11.2022
19		Recent trends in plant sciences	Plant Biotechnology and nanotechnology	09.11.2022 to 10.11.2022
20		Research education and sustainable development, opputunities and challenges	Cimate change and disaster management	19.11.2022
21	Dr. Pawan Chanchal	National Symposium On Global Environmental Challenges: Present Scenario	A Review Of Research Into The Economic Value Of a Public Bird- Watching and Sustainable Its Management	21 January, 2017
22		National Seminar On"Excellence in Higher Education" The Road Ahead	Research in Higher Education	26-27 September, 2017
23		International Conference on Special Functions And Applications (Under TEQIP-III)	Subclass Of Univalent Functions Associated With Fractional Operator	November 02-04, 2017
24		Annual International Conference on Coping Change Through Innovation and Value Creation For society	On A new Subclass of Multivalent Functions Defined by Generalized Ruscheweyh Derivatives	22-23 December, 2017
25		National <i>Conference on</i> Recent Trends in Science and Social Science in Sustainable Development	Nanotechnology: An Introduction And Its Application	22-23 January, 2018
26		7 th National <i>Conference on</i> Computational and	Mathematical Modelling	30-31 March, 2018

	Mathematical Sciences COMPUTATIA-VII		
27	International Conference onMankind at Crossroads: Challenges and Solutions	Waders Diversity Of An Urban Wetland In Ajmer District, Rajasthan	17-18 January, 2019
28	National Conference on Changes in Lifestyle Influencing Adolescent Health	Awareness and preventing adolescent health problems	28-29 September, 2019
29	XXVI International Conference Of Rajasthan Sociological Association OnSocio – Cultural and Technological Transformation: Global and Indian	Socio- Cultural Impact Of Globalization in India	11-12 October, 2019
30	International Conference On Multidisciplinary Approaches to Environmental Research for Human Health	The Impacts Of Anthropogenic Light Pollution On Avian Community In Fresh Water Lakes of Ajmer	December 22-24, 2021

13. Number of books and chapter in edited volumes/Books published

Name of Faculty	Title of the book/chapter published	National/ International	Year of publication	ISBN/ISSN No.	Name of the publisher
Dr. Anita Lubana	1-HERBAL HEALERS: HOME REMEDY.		2018	Environment & Engineering, ISBN- 978-93- 87739-34-5	JRF INTERNATIONAL BOOK PUBLICATION
	2- Environmental Crisis: Challenges and opportunity: Environmental		2018	Environment & Engineering, ISBN- 978-93- 87739-34-5	JRF INTERNATIONAL BOOK PUBLICATION
	3- BIOTECHNOLOGY GENERALLY: Benefits and		2018	Environment & Engineering, ISBN- 978-93- 87739-34-5	JRF INTERNATIONAL BOOK PUBLICATION

	Concerns			
	4- BIODIVERSITY, SUSTAINABILITY AND CONSERVATION	2022	Global Environmental Science: Issues and solutions ISBN:978-93- 91267-54-4	Raj Publishing House, Jaipur
	5. Water conservation: A solution of water crisis.	2022	Global Environmental Science: Issues and solutions ISBN:978-93- 91267-54-4	Raj Publishing House, Jaipur
Dr. Pawan Chanchal	Abstract Algebra	2019	978-93-88031-33-2	Baba Publication, choura Rasta , Jaipur
	Importance of Environtance Education	Marc 2021	Educational Studies ISBN: 978- 93-90937- 02- 8(paperback)	Redshine publication, swedan, India.
	Advances in Communication and Computational Technology	2021	ISBN 978- 981-15- 5341-7	Springer, Singapore
Ms. Kavita Singh Chaudhary	Environmental	2022	ISBN: 978- 93-95237- 70-3	Sahityagar Jaipur

14. Name of research guides

Sr. No.	Name of research guide	Ph. D/ M. Phil
1.	Prof. Kalpana Sharma	Ph. D

15.DetailOf Research Scholars and Area of their work-

Name	Date of Allotment	Topic	Date of Thesis Submission
1.	Nikita Kundu	Ethenomedicinal and Antimicrobial screening of selected plant species of Ajmer District.	
2.	Rama Didwaniya	Doing Course work	
3.	Ishan Verma	Doing Course work	

16. Number of Ph. D/M. Phil awarded by faculty

Sr. No.	Name of M. Phil scholar	Name Guide/s	of the	Title of the thesis	Year of registration of scholar	Year of awards of Ph. D/ M. Phil.
1	Shyam Bihari	Prof. Sharma	Kalpana	Effects of Annona Squamosa seeds extracts on the histology of fat bodies & morphology of D. Koenigii		15-04- 2006
2	Raj Kumar Meena	Prof. Sharma	Kalpana	Study of lakes and ponds of Ajmer District with their Fish Fauna.		09-03- 2007
3	Garima Chaumal	Prof. Sharma	Kalpana	Study of Animal Cell and Tissue Culture		09-03- 2007
4	Nitesh Kumar	Prof. Sharma	Kalpana	Chemical Characteristics of ground water in rural region of Ajmer		15-09- 2008

5	Subhi Bishnoi	Prof. Sharma	Kalpana	Biodiversity of Insect fauna of Govt. College Campus and Anasagar Lake of Ajmer	09-09- 2009
6	Chandan Kalawatia	Prof. Sharma	Kalpana	Study of the vegetable Pests of winter season in Shekhawati region of Rajasthan	09-09- 2009
7	Garima Mishra	Prof. Sharma	Kalpana	Rain water Harvesting Scheme of Different Block of Govt. Polytechnic College, ITI, Ajmer	09-09- 2009
8	Kavita Saini	Prof. Sharma	Kalpana	Role of Honey Bee in Production of Honey: A study of Apis indica	09-09- 2009
9	Simple Sharma	Prof. Sharma	Kalpana	Bioluminescence Among different orders of Insects	16-06- 2010
10	Satish Yadav	Prof. Sharma	Kalpana	Study of Fauna of Nahar Wild Sanc	16-06- 2010

17.Faculty as chairman/members in National committees/International Committees/ Editorial/Boards/BOS/University committees etc.

Sr. No.	Name of faculty	Name of the body in which full time teacher participated	Member of editorial board	Reviewer
1.	Prof. Kalpana Sharma	COC Microbiology MDSU Ajmer		
2.	Prof. Kalpana Sharma	Life Membership of Indian Science Congress		

3.	Prof. Kalpana Sharma	Life Membership of Indian Council of Radiation Biology	
4.	Prof. Kalpana Sharma	Life Membership of ISLS	
5.	Prof. Kalpana Sharma	Life Membership of I.G.R.H.S.	

18.Student undertaking field projects/internships

1. a) Percentage of students who have done in-house projects including inter

departmental / Programme

Program name	Program code	Year	No. stude undertaking fie projects/Internships	ent eld

1. b) Percentage of students placed for projects in organizations outside the institution <u>i.e.in</u> Research laboratories/Industry/society other agencies

Program name	Program code	Year	No. undertaking projects/Inter	student field rnships

19. Awards / Recognitions received by faculty

Year of awards	Name of full time teachers receiving awards from state level, National level, International level	PAN	Designation	Name of the award, fellowship, received from government or recognized bodies
Nil			1	1

20. Numbers of awards / Medals for outstanding performance in sports/cultural activities in National/ International/ State level etc. received by students

Year	Name of the award/Medal	National/International/State etc.	Sports/Cultural	Aadhar/Student ID No.	Name of the Student
Nil					

21.Students Qualifying in State/National/International level examination (NET, SET, GATE, GMAT, GRE, TOEFL/UPSC/MPSC/State government examination, etc.)

Year	Registration No./Roll for the examination					Numb	oer of	student	s selected	
		SET	NET	GATE	GMAT	CAT	RGE	TOEFL	Civil services	State Govt. Examinations/Others

Many of the students from the Department of Science have qualified the REET and other competitive examinations conducted by Rajasthan State Subordinate Commission for the recruitment of First Grade/Second Grade Teachers, Assistant Professor in College/University and aptitude examinations held for other government jobs.

22. Student progression to higher studies. UG to PG, PG to M. Phil., PG to Ph. D, M. Phil to Ph. D, Ph. D to post Doctoral, etc. (2021-22)

1. UG to PG

Sr. No.	Program Graduated From	Department Graduated from	Student Name	Name of the Institute Joined	Name of the Program admitted		
Department is a UG Deptt. Hence no such data is available							

1. PG to M. Phil

Sr. No.	Program Graduated From	Department Graduated from	Student Name	Name of the Institute Joined	Name of the Program admitted
Nil			ı		

1. PG to Ph. D or M. Phil to Ph. D.

Sr. No.	Program Graduated From	Department Graduated from	Student Name	Name of the Institute Joined	Name of th Program admitted
			Nil		

23. Placement of outgoing students (Last five years, 2017-2022)

Year	Contact detail	Number of students placed	Name of the employer with contact details	Package received	Program graduated from
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24.List of alumni/contribution (Departmental)

Sr.	Name of	. Year of	Position	Contact o	letail	Quantum	of
No.	Alumni	Graduation/Post Graduation	held	(Email, No.)	Mobile	Quantum Contribution	of

25.List of eminent academicians and scientists / visitors to the department 26.Seminars/ Conferences/Workshops organized & the source of funding

Sr. No.	Level National/ International/ State	Name of the workshop/ Seminar	Funding agency	Amount sanctioned	Durations (From-To)	Number of participants
1		National Science Day-2021			28-02-2021 to 03-03-2021	

27. Student profile programme/course wise:

Year	Name of the Course/programme (refer question no. 4)	Applications received	Total number of Students
2017-18	PCM	396	87
2017-18	CBZ	465	87
2018-19	PCM	289	88
	CBZ	471	88
2010.20	PCM	192	63
2019-20	CBZ	299	72
2020-21	PCM	201	56

	CBZ	426	67
2021 22	PCM	239	70
2021-22	CBZ	567	90

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students From abroad	
Nil				

28. Special steps taken by department for Slow and Fast Learners

• List of such students

29.Departmental result

Year	Program Code	Program Name	Number of students appeared in the final year examination	Number of students passed in final year examination
2017	PCM	B.Sc. Part-III	62	61
2017	CBZ	B.Sc. Part-III	78	76
2018	PCM	B.Sc. Part-III	61	60
2018	CBZ	B.Sc. Part-III	64	60
2019	PCM	B.Sc. Part-III	75	74
2019	CBZ	B.Sc. Part-III	65	63
2020	PCM	B.Sc. Part-III	73	73
2020	CBZ	B.Sc. Part-III	64	64
2021	PCM	B.Sc. Part-III	92	88
2021	CBZ	B.Sc. Part-III	130	125
2022	PCM	B.Sc. Part-III	65	65
2022	CBZ	B.Sc. Part-III	65	65

30.Number of linkages for faculty exchange/student exchange/training/internship/field trips/job on training/research etc.

Sr. No.	Title of the linkage	Name of the partnering institution/ industry /research lab with	Year of commencement	Duration (From-To)	Nature linkage	of
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	contact details		
Nil			

31. Number of functional MoU's with corporate houses/ industries/other institutes/Universities, etc.

Organisation with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MoU year wise	Number of students/teachers participated under MoUs
Nil					

- 32.Details of Infrastructural facilities
- 1. a) Departmental Library

Sr. No.	Name of Books	Publisher	Number of copies	
Nil				

- 1. b) Internet facilities for Staff & Students- YES, Use of computer for students
- 2. c) Class rooms with ICT facility: 01
- 1. d) Laboratories : 05

Sr. No.	Facility	Detail	Area
Nil			

- 1. e) List of Equipments/Instruments
- 33. Number of students receiving financial assistance from college, university, government or other agencies-

NA

34.Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Sr. No.	Enrichment programmes	Experts

- 35. Teaching methods adopted to improve student learning-
- PowerPoint presentation
- Some lessons are taught outside of the classroom
- Use of Video Clips
- Project Work
- Video Conferencing Lecture
- Organized Workshop
- Online NPTEL courses
- Online NPTEL/UGC-SWAYAM lectures
- Students seminars
- Field projects/Survey
- Review of research papers (Avishkar)
- Use of Adobe Acrobat reader
- 36. Faculty Paricipation in Gyan Sudha- Links of Lectures
- 37. Faculty Paricipation in Gyan Doot- Links of Lectures
- 38. E-Content on Youtube-Topic wise links of lectures:
- https://www.youtube.com/channel/UCvlfEloJmKxRjrFpwGlcwoA
- https://www.youtube.com/channel/UC2gG-VmbB_om8pp5E7Dq8KQ
- https://youtube.com/playlist?list=PLwgHybyiOT4VCEvY4CgklPx3ZNn Zrq605
- 39. Departmental Preparedness for NEP
 - 1. Multidisciplinary/Interdisciplinary Learning.
 - 2. Academic Bank of Credits.
 - 3. Skill development.
 - 4. Integration of Indian knowledge System.
 - 5. Focus on outcome based education.
 - 6. Distance/Online education.
- 40. Contribution in Institutional Best Practices-

- 41. Participation in Institutional Social Responsibility (ISR) and Extension activities
 - 1. Member of proctorial Board.
 - 2. Games In charge.
 - 3. NCC Officer.
 - 4. Literary Forum Convenor and members.
 - 5. IQAC Member.
 - 6. Campus Supervision Committee Member.
 - 7. College Magazine committee.
 - 8. Web page Nodal.
 - 9. Admission Nodal/NSS Officer/Scholarship nodular committee member/ HTE Nodal.
 - 10.Gyan Sudha Nodal.
 - 11.Gyan Doot.
 - 12.Gyan Parakh.
 - 13. Other activities.

42.SWOC analysis of the department

Strength-

- Good Academic results of students
- Qualified and Experienced faculty
- Promoting higher education for females in the area

Weakness-

- No post sanctioned for non-teaching staff by government
- Inadequate posts sanctioned for teaching staff
- Inadequate post filled for teaching staff
- Poor Infrastructure facilities (drinking water, sanitation, common room etc.)
- Inappropriate size of classrooms
- Lack of campus recruitment facilities

Opportunities-

 Potential for starting PG course in Physics, Chemistry, Mathematics, Botany & Zoology

Challenges-

- Providing adequate exposure to the student regarding new developments and technological advancements in the subject.
- Curriculum and course development to make it more job oriented.
- Introducing student and faculty exchange programs.

43. Future plans: (Five years plan of action)

- Starting PG Course in Physics, Chemistry, Mathematics, Botany & Zoology
- Developing financial assistance from bodies like UGC, state govt etc. So as to improve infrastructural facilities in the department.

44. Youtube Playlists links, E-Books and other sources links should be available on departmental computer