

The Annual Quality Assurance Report (AQAR) of the IQAC
Govt. Holkar (Model, Autonomous) Science College, Indore(M.P.)

AQAR of Academic Year
(July 1, 2018 to June 30, 2019)

Part – A

Data of the Institution		
1.	Name of the Institution	Govt. Holkar (Model, Autonomous) Science College, Indore
•	Name of the Head of the institution	Dr. Suresh T. Silawat
•	Designation	Principal
•	Does the institution function from own campus	Yes
•	Phone no./Alternate phone no.	0731-2446806 / 0731-2464074
•	Mobile no.	9302100611
•	Registered Email	principalhsc@rediffmail.com
•	Alternate Email	--
•	Address	AB Road, Bhanwarkua
•	City/Town	Indore
•	State/UT	M. P.
•	Pin Code	452001
2.	Institutional status	
•	Autonomous Status (provide the date of Conformant of Autonomous Status)	01/09/1989
•	Type of Institution: Co-education/ Men/Women	Co-education
•	Location : Rural/Semi-urban/Urban	Urban
•	Financial Status	UGC 2f and 12 (B) and Self-financing (Partially)
•	Name of the IQAC Co-ordinator/Director	Dr. R.K.Sharma
•	Phone no. /Alternate phone no	0731-2446806 / 0731-2464074
•	Mobile	9425081367
•	IQAC e-mail address	IQAC_hsc@rediffmail.com
•	Alternate Email address	raj_rma@yahoo.co.in
3	Website address	http://www.collegeholkar.org
•	Web-link of the AQAR	http://www.collegeholkar.org/AQAR2018-19.doc
4	Whether Academic Calendar prepared during the year?	Yes
•	If yes, whether it is uploaded in the Institutional website	Yes
•	Web link	http://www.collegeholkar.org

5.	Accreditation Details				
Cycle	Grade	CGP A	Year of Accreditation	Validity Period	
1 st	***	00	2001	from:05.11.2001 to: 04.11.2006	
2 nd	B	2.75	2009	from:30.09.2009 to: 29.09.2014	
3 rd	A	3.23	2016	from:19.01.2016 to: 18.01.2021	
6.	Date of Establishment of IQAC:DD/MM/YYYY			01/11/2003	
7. Internal Quality Assurance System					
7.1 Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC		Date & duration		Number of participants/beneficiaries	
Regular meeting of IQAC		16/07/18		13	
Regular meeting of IQAC		27/05/19		13	
College Participated in NIRF NIRF Ranking 2017(101-150)		03/11/18		00	
College Participated in AISHE		18/02/19		00	
Feedback from all stakeholders collected, analysed and used for improvements		Collected and analyse and used for improvement at various department level.		1200	
8. Provide the list of Special Status conferred by Central/ State Government-UGC/ CSIR/ DST/ DBT/ ICMR/TEQIP/World Bank/CPE of UGC etc.					
Institution/ Department/ Faculty		Scheme	Funding agency	Year of award with duration	Amount
Model		--	State Govt.	05/07/85	00
Autonomous		--	UGC	09/07/89 to till now	00
College of Excellence		--	State Govt.	12/07/18 to till now	00
9.	Whether composition of IQAC as per latest NAAC guidelines			Yes	
•	upload latest notification of formation of IQAC			Uploaded	
10.	No. of IQAC meetings held during the year			02	
•	The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website..... Yes/No(Please upload, minutes of meetings and action taken report)			Yes	
11.	Whether IQAC received funding from any of the funding agency to support its activities during the year? Yes/No			No	
•	If yes, mention the amount and year			Nil	
12.	Significant contributions made by IQAC during the current year (maximum five bullets)				
❖	Two national conferences: RTBS-18(03-04/10/18), NCPCM-18(27-28/12/18) and one international conference NFMP-19(29-30/03/19) were organized during the session by different departments of the college.				
❖	Two workshops: “Application of Biochemical Techniques in Biosciences” (25/02-03/03/19 and “Mobile Repairing, DTH Installation & TV Repairing” (04-25/09/18)				

	were organized during the session by different departments of the college.			
❖	Three training programmes/Internship: “Chem-Informatics and Biophysical Techniques” (01-12/02/19), Tissue Culturing of Medical Plants and Organic Farming” (17-29/09/18) and “Computer Hardware and Networking” (07-27/09/18) were organized during the session by different departments of the college.			
❖	Approx. 185 faculties participated in various seminars/workshops, approx. 53 papers were presented by the faculties in various seminars, 13 candidates have been awarded Ph.D. degree under the guidance of faculty members, 01 major project is ongoing, about 92 research papers are published by the faculty member in various peer-reviewed journals/proceedings during the session. Faculty members chaired the session of national and international conferences & seminar.			
❖	Various Entrepreneurship Development Programmes and Skill Oriented Programmes were organized during the session.			
❖	Educational Tours:			
S. No	Dept.	Place	Date	No. Of students
1	Geology: Geological field work	Geological and Geo Technical Study of Tunnel (As tunnel excavation was going on)	03/04/19	13
		Study of Intertrappean beds and dolerite dyke near Gujari (Either side of NH3)		
		Study of Bagh group of sediment sand study of Sitapur Limestone Mines.		
2		Geological Studies of Rajasthan area and study of various mines and collection of sample from different localities (Nimbahera limestone Chhitorgarh, Gossan park in Rajsamand district, Iron ore mines, Talc mineral mine ChinapuraBhilwara district and lignite and Gypsum deposits of Nagur district and Garnet Mines of Pratapgarh district.	11-20/03/19	15
3	Bio Tech. & Bio Info.	Nature Agro care and Research Pvt. Ltd. Dewas Naka Indore	25/10/18	15
4		UGC-DAE Consortium for Scientific Research DAVV Indore to know new technologies.	18/03/19	16
5	Botany	Botanical Excursion tour – Bhatinda Nursery, Village Bargonda for plant study.	18/12/18	15
6		Botanical Ed. Excursion tour – IISER Bhopal	14/05/19	15
7	Pharma Chem.	Ed. Tour at UGC Consortium Indore to know various modern equipment.	09/02/19	34
8	Bio Chem.	Visited Confectionary Industry, Indore	27/09/18	05
9		Visited Pharmaceutical Industry, Indore	09/02/19	05
10	Zoology	Excursion tour visited Hathaikheda dam, GhoraPachad Dam & Van Vihar Park Bhopal for aquaculture and wild life study.	One day	22
13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year				
Plan of Action		Achievements/Outcomes		
Academic programmes proposed: (i) To organize academic tours. (ii) To organize Lectures /seminars /workshop/symposium. (iii) To start new certificate courses. (iv) To start new award if any. (v) To motivate faculties for Research activities. (vi) Science Exhibition. (vii) Remedial Classes.		Academic programmes implemented: (i) Three national /International seminars /conferences were organized during the session by different departments of the college. (ii) 7 training Programmes/ workshops/ seminars for students were organized during the session by different departments/Cells of the college during the session.		

	<p>(iii) <i>Bhuvisanwad Programme by Dept. of Geology on 31/10/18.</i></p> <p>(iv) <i>Two certificate courses on “Mobile Repairing, DTH Installation & T.V. Repairing” and “Computer hardware & Network” for students were organized during the session in college.</i></p> <p>(v) <i>Two workshops for teachers & other staff members were organized during the session.</i></p> <p>(vi) <i>Approx. 185 faculties participated in various seminars/workshops.</i></p> <p>(vii) <i>Approx. 53 papers were presented by the faculty members in various seminars.</i></p> <p>(viii) <i>13 candidates have been awarded Ph.D. degree under the guidance of faculty members during the session.</i></p> <p>(ix) <i>01 major project is ongoing while 02 minor projects completed during the session.</i></p> <p>(x) <i>About 92 research papers were published by the faculty members in various peer-reviewed journals /proceedings.</i></p> <p>(xi) <i>Annual system at UG level started. All the syllabi at UGII Year level have been revised and implemented.</i></p> <p>(xii) <i>Two new courses M.Phil., in Physics, Mathematics are in progress.</i></p> <p>(xiii) <i>10 educational Excursions were organized by the college during the session.</i></p> <p>(xiv) <i>Science Exhibition by Dept. of Pharma Chem.</i></p>
<p><i>Infrastructure development proposed:</i></p> <p>(i) <i>To develop separate blocks for each department.</i></p> <p>(ii) <i>To construct extra classrooms.</i></p> <p>(iii) <i>To construct new Laboratories</i></p> <p>(iv) <i>To renovate Playgrounds</i></p> <p>(v) <i>To enrich the Library.</i></p> <p>(vi) <i>Up gradation of Canteen Facility.</i></p>	<p><i>Infrastructure development implemented :</i></p> <p>(i) <i>Two new classrooms on the first floor of the Academic Block are constructed.</i></p> <p>(ii) <i>Horticulture, Pharma Chem., Chemistry, Physics, Botany Labs have been updated during the session.</i></p> <p>(iii) <i>Play grounds of cricket, Foot ball, Kabbadi, Kho-Kho, Volley-ball, Basketball and Tennis were renovated during the session.</i></p> <p>(iv) <i>Proposal for a new canteen building and Gym have been processed.</i></p> <p>(v) <i>Gardens are surrounded by boundary walls during the session.</i></p>

<p>Extension/Value added programmes proposed:</p> <ul style="list-style-type: none"> (i) <i>To start cleanliness drive in the college and to make it a polythene free zone.</i> (ii) <i>Yoga Karyakram for students.</i> (iii) <i>Gender equality programmes, self-defence programmes etc</i> (iv) <i>To organize lecturers related to Moral values, spirituality, national integration, Indian tradition and culture etc.</i> (v) <i>Social Welfare Activities: Blood donation camp, Organs/Body donation programme, Awareness about disease/health like: AIDS, Personal hygiene pr. Health check up camps-Eye testing, Bone density, Lipid profile etc., Vector born disease awareness camp, clean environment programme, Eradication of child labourers, differentially able Day, Women's Day & "World Diabetes Day" and awareness campaign, programmes for women empowerment, cancer/ Breast Cancer awareness programme, workshop on violence against women, tree plantation.</i> (vi) <i>Civic Development Activities: Road safety programmes-Traffic rule, Awareness about RTI, Awareness about Gender sensitivity. Voting awareness campaign.</i> 	<p>Extension/Value added programmes implemented:</p> <ul style="list-style-type: none"> (i) <i>Students participated in the various programmes held on the occasion of Independence Day, Republic day and Gandhi Jayanti.</i> (ii) <i>The NCC cadets of the college performed various activities like Tree plantation, Nukkad Natak etc during the session.</i> (iii) <i>The NSS unit organized various programmes like: Population Rally (17/07/18), Plantation (30/07/18), Swacchhata Programmes (Swacchhta hi sewa 27/07/18, Nukkad Natak 29/09/18), Garden construction (17/10/18), Voter awareness Programme (Marathon-Vote Indore Vote 24/10/18, Cycle Rally 26/11/18), aIDs Awareness pledge(02/12/18), Road Safety week (05-11/02/19), Blood Donation Camp(21/02/19), 7 days camp at village Asrawad (10 – 17/01/19 etc during the session.</i> (iv) <i>The Red Cross Society organized: Plantation (29/07/18), Komi Ekta Week (19-25/11/18), Health Check-up camp(29-30/10/18), Eye Test Camp (15/10/18) etc during the session.</i> (v) <i>Visit to Jyoti Niwas Old home by Dept. of Pharma Chem. (05/04/19), Gosthi on Jal evam Paryavaran by Dept. of Geology (06/08/19), Banking Awareness Programme by Dept. of Micro. Bio. (21/02/19) etc during the session.</i> (vi) <i>For drinking water "Microbial analysis of Water samples from different locations on GHSC campus" was conducted by Department of Microbiology during the session.</i> (vii) <i>Women empowerment programmes: Lecture by IG Police on "Safety & Security", safety camp etc was organized by the women empowerment cell during the session.</i>
<p>Skill oriented and student mentoring programmes proposed:</p> <ul style="list-style-type: none"> (i) <i>To organize lectures on entrepreneurship skill development.</i> (ii) <i>To organize lectures on personal grooming, personality development and attitude building. This will help the students to face placement agencies coming to the institution.</i> (iii) <i>Job oriented projects.</i> (iv) <i>To organize Remedial classes.</i> (v) <i>To organize Classes for the preparation of competitive examinations.</i> 	<p>Skill oriented and student mentoring programmes implemented:</p> <ul style="list-style-type: none"> (i) <i>Entrepreneurship Development is taught at the UG level as a separate course.</i> (ii) <i>Swami Vivekananda career guidance cell organized: Training Programme on "Entrepreneurship Development", Tr. Programme on "Computer Hardware and Networking" (07-27/09/18), Tr. Programme on "Plant Tissue of Medicinal Plant and Organic Farming" (17-29/09/18), Tr. Programme on "Mobile Repairing and DTH Installation & TV Repairing"(04-25/09/18), Lectures: on</i>

	<p><i>Time Management (03/08/18), on "Swarojgar, Development of Women & Children" (13/08/18), on "Banking & Other Competitive Exam. (06/10/18) etc.</i></p> <p>(iii) <i>Personality development cell organized: lectures on "Responsibility of Teachers for Students" (03/07/18), on "Ek Bharat Akhand Bharat"(05/09/18); Essay writing on "Ahinsa and Gandhi Darshan" and "Mere Sapno Ka Bharat" (05/10/18, Petriotic Song Competition on "Jara Yaad Karo Kurbani" (14/08/18) etc.</i></p> <p>(iv) <i>Placement cell organized Meetings with HR's of Various Companies.</i></p> <p>(v) <i>Remedial classes organized by Department of Micro biology and Dept. of Pharma Chem. for slow learners during the session.</i></p> <p>(vi) <i>1596 UG and 261 PG students of the last semester have completed out 60 hours job oriented projects/internship.</i></p> <p>(vii) <i>Total seven companies visited for campus placement and 55 students are placed, while 12 students placed off campus and 30 students cleared various competitive exams during the session.</i></p>
<p>Co-curricular/community extension programmes proposed:</p> <p>(i) <i>Physical Activities: YOGA, Judo Karate , sports activities: Institutional/ Division/ state/National/International sport competitions.</i></p> <p>(ii) <i>Aesthetic and Cultural Activities: On the spot drawing & painting competition, Group singing, Solo singing/ rhymes. Rangoli competitions.</i></p> <p>(iii) <i>Annual functions and Youth festivals.</i></p>	<p>Co-curricular/community extension programmes implemented:</p> <p>(i) <i>Department of Sports organized Judo Karate training camp for girls for self defence. Yoga training camp and Gymnasium training camp during the session.</i></p> <p>(ii) <i>Department of Sports organized training camp for Cricket, Football, Volleyball, Basketball, Kho-Kho, Kabaddi, Softball, Table-Tanis,Tenis, Weightlifting, Badminton, Hand Ball etc during the session.</i></p> <p>(iii) <i>Yoga Karyakram Surya Namaskar on Vivekanand Jayanti was organized by sports Department.</i></p> <p>(iv) <i>Division level Basket ball(W), Tennis(W), Squash, Teachers/Employee sports and District level Volleyball(M) were organized by the Sports Department during the session.</i></p> <p>(v) <i>On the occasion of annual function various sports activities were organized by the Department of Sports.</i></p> <p>(vi) <i>Many cultural and literacy activities were organized by the institution during the session.</i></p> <p>(vii) <i>Annual functions and youth festivals were organized.</i></p>

	(viii) <i>Many students achieved awards/Medals (Listed in 5.3.1)</i>
14. Whether the AQAR was placed before statutory body? Yes /No	Yes
Name of the statutory body: Staff Council	Date of meeting(s): 01-July
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning? Yes/No: Yes	
NAAC	Date: 07 - 09/12/2015
Autonomy Team	Date: 12 - 13/05/2017
16. Whether institutional data submitted to AISHE	
Year: 2018-19	Date of Submission: 18/02/2019
17. Does the Institution have Management Information System?	
Yes (Partially)	
If yes, give a brief description and a list of modules currently operational. (Maximum 500 words):	
<p><i>Management information system is a system formed and developed by the institution for updating, co-ordinating, analysing and controlling various information in the organization. College has Partially Management Information System.</i></p> <p><i>Being an autonomous institution, the college has its own examination department. In Govt. Holkar Science College the IT cell of the examination department manages and uploads news and information from time to time on the college website. The IT cell has created student's profile where all the details of the students seeking admission in the college are readily available. The students can see their results, fill the examination form, can print out their admit cards etc. online. In addition to this the IT cell also update the details given to it by various Departments like - information regarding workshops, seminars and conferences etc. organized and also those which will be organized in future. The IT cell displays and uploads all the official notices on the website. In a nutshell the objective of MIS is to share notices, results, admission process, ongoing activities etc. with the students, faculty members and all those who want to seek information about the college.</i></p> <p><i>The college has a well-defined administrative set up for the smooth functioning of the institution. The administrative procedure and fee structure are given in the college brochure and they are also displayed on the college website- www.collegeholkar.org. This information can also be sought directly from the college inquiry office. While the principal as the head of the institution remains at the helm of all the academic and administrative affairs in the college, the administrative officer serving as a link between the principal and the other staff members facilitates day to day administration of the institution. Every teaching department is headed by a senior professor entrusted with the administrative and academic responsibilities of that particular department. There are formed various committees comprising senior and experienced members of the staff for a number of activities taking place on the campus through the year. Constant monitoring is done to avoid any slackness in the administration.</i></p> <p><i>Admission to the college is based on merit basis and is done online through a central agency appointed by the Dept. of Higher Education Govt. of MP.</i></p> <p><i>The student's record is maintained in the office of the principal as well as in the exam department. The statistics related to the students is also uploaded on the college website. This information is updated on the portal of AISHE also.</i></p> <p><i>Every teaching department of the college has been equipped with internet/Wi-Fi in order to facilitate research activities. The college website is regularly updated.</i></p> <p><i>The students passing out from the college have to fill a feedback form. It helps to trace the</i></p>	

location and to keep the data of the students as they give their details related to the college they have taken admission or sought jobs at various companies.

CRITERION I–CURRICULAR ASPECTS		
1.1 Curriculum Design and Development		
1.1.1 Programmes for which syllabus revision was carried out during the Academic year		
Name of programme	Programme Code	Dates of revision
UG - B.Sc.	U001	Chemistry(30/06/18), Biotechnology(20/07/18), Computer Sc.(25/07/18), Zoology(20/07/18), Botany(26/06/18), Bioinformatics(20/07/18), Bio Chemistry(14/07/18), Microbiology(25/06/18), Pharma Chemistry(30/07/18), Horticulture(20/07/18), Seed Tech.(06/07/18), Forensic Sc. (20/07/18), Geography(06/08/18), Fisheries(20/07/18), Geology(01/08/18), Physics(14/07/18), Electronics(18/06/18), Mathematics(19/07/18), Statistics(06/09/18), Economics(06/09/18), English Lang. (28/07/18), Entr. Dev.(04/08/18), Hindi Lang. & Moral Value (14/08/18).
UG – BCA	U002	25/07/18
PG - M.Sc. – Bio Chemistry	P003	14/07/18
PG - M.Sc. – Bio Technology	- do -	20/07/18
PG - M.Sc. – Botany	- do -	26/06/18
PG - M.Sc. – Chemistry	- do -	30/06/18
PG - M.Sc. – Computer Sc.	- do -	25/07/18
PG - M.Sc. – Fisheries	- do -	20/07/18
PG - M.Sc. – Forensic Sc.	- do -	30/08/18
PG - M.Sc. – Geology	- do -	01/08/18
PG - M.Sc. – Mathematics	- do -	19/07/18
PG - M.Sc. – Microbiology	- do -	25/06/18
PG - M.Sc. – Pharma. Chemistry	- do -	30/07/18
PG - M.Sc. – Physics	- do -	14/07/18
PG - M.Sc. – Statistics	- do -	06/09/18
PG - M.Sc. – Zoology	- do -	20/07/18

1.1.2 Programmes/ courses focused on employability/ entrepreneurship/ skill development during the Academic year			
Programme with Code	Date of Introduction	Course with Code	Date of Introduction

All programmes listed in 1.1.1 are employable	July 18	All courses are employable. Some of them are listed below. For detailed nomenclature of courses visit our website www.collegeholkar.org	July 2018
		Biochemistry at UG(101-301)	July 2018
		Bioinformatics at UG(102-302)	July 2018
		Biotechnology at UG(103-303)	July 2018
		Computer Sc. at UG(106-306)(153-155,253-255, 352-355,451-456,552-554,651-654),310	July 2018
		Electronics at UG(107-307)	July 2018
		English Lang. at UG(108-308),156	July 2018
		Hindi Lang.at UG(109-309),256	July 2018
		Geology at UG(111-311)	July 2018
		Horticulture at UG (112-312)	July 2018
		Fisheries at UG(113-313)	July 2018
		Mathematics at UG(114-314) (151,251, 351, 451, 551)	July 2018
		Microbiology at UG(115-315)	July 2018
		Pharma Chemistry at UG(116-316)	July 2018
		Seed Tech. at UG(118-318)	July 2018
		Statistics at UG(119-319)(152,252)	July 2018
		Forensic Sc. at UG(122-322)	July 2018
		Entrepreneurship Development at UG (110, 356, 456)	July 2018
		Biochemistry at PG(BC11-14,21-24,31-34,41-44)	July 2018
		Biotechnology at PG(BT11-14,21-24,31-34, 41-44)	July 2018
		Botany at PG(BO11-14,21-24,31-34,41-44)	July 2018
		Chemistry at PG(CH11-14,21-24,31-34,41-44)	July 2018
		Computer Sc. at PG(CS11-14,21-24,31-34,41-44)	July 2018
		Fisheries at PG(F11-14,21-24,31-34,41-44)	July 2018
		Forensic Sc. at PG(FS11-14,21-24,31-34,41-44)	July 2018
		Geology at PG(G11-14,21-24,31-34,41-44)	July 2018
		Mathematics at PG(M11-15,21-25,31-35,41-45)	July 2018
		Microbiology at PG(MB11-14,21-24,31-34,41-44)	July 2018
		Pharma Chemistry at PG(PC11-14,21-24,31-34,41-44)	July 2018
		Physics at PG(P11-14,21-24,31-34,41-44)	July 2018
		Statistics at PG(S11-14,21-24,31-34,41-44)	July 2018
		Zoology at PG(Z11-14,21-24,31-34,41-44)	July 2018
		60 hour job oriented project/internship is mandatory for the students of last semester/year at UG and PG level.	July 2018

1.2 Academic Flexibility

1.2.1 New programmes/courses introduced during the Academic year.

Programme/Course	Date of introduction
Enzymology (Paper I) UGII	14/07/18
Intermediary Metabolism (Paper II) UGII	14/07/18
Introduction to Computer & Programming (Paper I) UG II	20/07/18
Structural Bioinformatics (Paper II) UGII	20/07/18
Bio Physics & Bio Chemistry (Paper I) UGII	20/07/18
Bio Instrumentation, Bio Statistics & Bio Informatics (Paper II) UGII	20/07/18
Taxonomy & Embryology of Angiosperm (Paper I) UGII	26/06/18
Plant ecology, Biodiversity & Phytogeography (Paper II) UGII	26/06/18
Physical Chemistry (Paper I) UGII	30/06/18

Inorganic Chemistry (Paper II) UGII				30/06/18	
Organic Chemistry (Paper III) UGII				30/06/18	
Object Oriented Programming Concept Using C++(Paper I) UG II				25/07/18	
Data Structure(Paper II) UG II				25/07/18	
Digital Electronics & Microprocessor(Paper I) UG II				18/06/18	
Operational Amplifier & Instrumentations(Paper II) UG II				18/06/18	
English Language(Paper I) UG II				28/07/18	
Hindi Language(Paper II) UG II				14/08/18	
Environmental Studies(Paper III) UG II				26/06/18	
Petrology(Paper I) UG II				01/08/18	
Structural Geology(Paper II) UG II				01/08/18	
Establishment & Management Orchard and Nursery(Paper I) UG II				20/07/18	
Farming System in Horticulture(Paper II) UG II				20/07/18	
Aquaculture, Fish Dieases&Pwan Culture(Paper I) UG II				20/07/18	
Aquarium Fish, Ichthyology & Postharvest techniques(Paper II) UG II				20/07/18	
Abstract Algebra(Paper I) UG II				19/07/18	
Advance Calculus(Paper II) UG II				19/07/18	
Differential Equation(Paper III) UG II				19/07/18	
Biochemistry & Microbial Physiology (Paper I) UG II				25/06/18	
Microbial Genetics & Molecular Biology(Paper II) UG II				25/06/18	
Medicinal Chemistry – I(Paper I) UG II				30/07/18	
Chemistry of Natural Products(Paper II) UG II				30/07/18	
Optics(Paper I) UG II				14/07/18	
Electrostatics, Magneto Statics Electrodynamics(Paper II) UG II				14/07/18	
Plant Breeding(Paper I) UG II				06/07/18	
Seed testing and Quality Control(Paper II) UG II				06/07/18	
Statistical Inference(Paper I) UG II				06/09/18	
Sampling Technique(Paper II) UG II				06/09/18	
Vertebrates & Evolution(Paper I) UG II				20/07/18	
Animal Physiology & Bio-Chemistry(Paper II) UG II				20/07/18	
Macro Economics(Paper I) UG II				06/09/18	
Public Finance & International Economics(Paper II) UG II				06/09/18	
Indian Penal Code, Criminal Procedure Code, Indian Evidence Act & Judicial System (Paper I) UG II				20/07/18	
Examination of Physical Evidence and Forensic Ballistics (Paper II) UG II				20/07/18	
Physical Geography(Atmosphere and hydrosphere) (Paper I) UG II				06/08/18	
Economic Geography (Paper II) UG II				06/08/18	
1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.					
Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
Already adopted (mention the year)				2001-02	2015-16
1.3 Curriculum Enrichment					
1.3.1 Value-added courses imparting transferable and life skills offered during the year					
Value added courses			Date of introduction	Number of students enrolled	
Workshop on: Mobile Repairing and DTH Installation & TV Repairing (Dept. of Electr. & Career Guidance Cell) (Mr.			04–25/09/2018	36	

Tarkeshwar Vyas) (For Students-Cert. Course)		
Hands on Training Programme on: “Tissue Culturing of Medical Plants and Organic Farming” (Dept. of Seed & Hort. & Career Guidance Cell) (Dr. Paridhi Jain) (For Students)	17 – 29/09/2018	50
Training Programme on: Computer Hardware & Networking” (Dr. Sanjay & Expert Team) (For Students-Cert. Course)	07 – 27/09/2018	30
Internship Prog.: on Chem-Informatics and Biophysical Techniques (Dept. of Chemistry + Bio. Tech. & Bio. Info.) (For Students)	01 – 12/02/2019	100
Workshop on “Bouquet Preparation” - An approach toward skill development and self employment (Dept. of Hort. & Seed.) (For Students)	26/09/18	150
Nano Materials & Nano Composites (Dept. of Physics) (For Students)	30-31/01/19	40
Importance of Research in Modern Biology (Dept. of Micro Bio & A2Z mentor organization) (For Students)	15/09/18	116
Seminar on “Future Prospectus of Bioscience with Digital Word”: Dept. of Micro. Bio. (For Students)	28/09/18	230
Workshop on “Modern Practical Approaches in Health care sector –Medical Coding”: Dept. of Micro Bio. (For Students)	16/10/18	194
1.3.2 Field Projects / Internships under taken during the year		
Project/Programme Title	No. of students enrolled for Field Projects / Internships	
60 hour job oriented project/internship is mandatory for all the students at UG level in the last semester/year : Forest Conservation, Food preservation, Computer Software and Hardware, Zoo Management, Teaching and School Management, Pathology Lab, Pharma Lab, Accounting Training, Dairy, Museum Management, Hospital Management, Pollution Control; Quality control(Drugs), Quality control(Dugdh Sangh); Medical store management, Paramedical Jobs & Services, Manufacturing and Quality Control(Pharma in drug Industries); Crime scene management, Pathology and Impression marks, NGO; Mushroom Culture, Trees of Zoo, Plant Tissue Culture, Forest Nursery, Flora in Zoo, Horticulture, Vermi composting, Floriculture, Organic forming, Blood Testing, Soil Analysis, Bonsai Techniques; Basics of computer, Computer software, Cyber café, Online services etc.	1596	
60 hour job oriented project/internship is mandatory for all the students at PG level in the last semester/year : Biochemistry, Laboratory and Hospital; Pharma Industry setup, Raw material in Pharma, Bacterial endotoxin Test, Sterility Test, Microbial limit Test, Production unit in Pharma, Waste Disposal Plant, Instrumentation; Quality Control(Pharma), Manufacturing and Quality Control (Pharma Compound); Questioned Document, Anthropology, Crime Scene, Investigation, DNA, Profiling and Serology, Instrumentation; Bio Fertilizer, Cow pat pit biodynamic compost, Wheat crop improvement, Weeding; Teaching and School Management, Computer Hardware and Networking, computer software, Cyber café, Online	261	

services etc.

1.4 Feedback System

1.4.1 Whether structured feedback received from all the stakeholders. Feedback Taken by Various department at department level.

1) Students

2) Teachers

3) Employers

4) Alumni

5)Parents

Yes

Yes

Yes

Yes

Yes

1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback of the students and parents are taken between the periods of 28 Feb 19 to 09 April 19. The analysis of feedback is given under following tables. The institute is committed to update and bring positive change on the basis of the feedback.

Feedback of Students

	Nature of Question	Opinions of Answer in Percentage				% of Opinion
		A Always	B Sometime	C Never	D Can`'t Say	
1	The quality and content of the curriculum promote overall personality development of learners addressing all the educational domains through the curriculum	88.46%	11.54%	0.00%	0.00%	100%
2	The Curriculum offers several job opportunities after its completion	69.23%	16.92%	6.15%	7.70%	86.15%
3	The teachers` use of ICT tools such as LCD projector, multimedia, simulation, e-classroom, video lectures etc. while teaching	57.69%	39.23%	3.08%	0.00%	96.92%
4	Did the teachers cover the whole of the prescribed syllabus?	79.23%	18.46%	1.23%	1.08%	97.69%
5	Did the teachers thoroughly prepare the topics for the class?	85.38%	10.85%	3.08%	0.69%	96.23%
6	Did the teachers motivate you to ask the questions in the class?	80.00%	15.38%	4.62%	0.00%	95.38%
7	Did the teachers ask you to take up questions from the exercises in the textbook?	79.23%	16.54%	2.69%	1.54%	95.77%
8	Did the teachers discuss with you your performance in examinations	60.00%	24.62%	9.23%	6.15%	84.62%
9	Did the teachers teach you consulting books and notes in the class?	87.31%	11.15%	1.54%	0.00%	98.46%
10	Did the teachers give you extra time after the class?	51.54%	43.62%	4.85%	0.00%	95.16%
11	Suggestions if any	Recorded				
12	Average Response					91.68%

Scale for option of the student

A 100-80

B 79-60

C 59-40

D LESS THAN 40

Average Rating of Students` Feedback Response found to be at 91.68%

Feedback of Parents

S. No.	Nature of Question	Opinions of Answer in Percentage				Scale of Opinion	% of Opinion
		excellent %	Good %	Fair %	Poor %		
1	How do you rate the programme that your ward undergoing in terms of the load of the courses in different semesters/year?	80.26	12.45	7.29	0.00	Excellent And Good	92.71
2	How do you rate the discipline in college camups	90.12	3.56	6.32	0.00	Do	93.68
3	How do you rate the quality and relevance of the courses included into the curriculum?	76.37	16,38	4.13	3.12	Do	92.75
4	How do you rate the treatment of the	89.58	9.29	1.13	0.00	Do	98.87

	<i>students by the faculty irrespective of the background of the student (Gender, cast, community, creed etc.) in teaching and evaluation?</i>						
5	<i>How do you rate the quality of the teaching in the Institution?</i>	78.43	12.61	5.46	3.50	Do	91.04
6	<i>How do you rate the outcomes that your ward has achieved from the courses?</i>	82.13	8.37	6.2	3.3	Do	90.5
7	<i>How do you rate the transparency of the evaluation system in the College?</i>	96.37	3.63			Do	100
8	<i>How do you rate the college activities that help your ward in getting jobs and placements?</i>	46.81	13.29	19.12	20.78	Do	60.1
9	<i>How do you rate the scholarship/ concessions given to your ward by the college</i>	79.43	12.24	8.33	00	Do	91.67
10	<i>Does your ward inform you regularly about his /her attendance</i>	56.25	14.34	9.41	20.00	Do	70.59
11	<i>suggestions</i>	<i>Recorded</i>					
12	<i>Average Response</i>						88.19
<i>Average Rating of parents' Feedback Response found to be 88.19%</i>							
<i>Apart from this feedback, departments have taken feedback at departmental level from various stake holders. The feedback is analysed and steps are taken to update and bring a positive change in the institution.</i>							

CRITERION II -TEACHING-LEARNING AND EVALUATION					
2.1 Student Enrolment and Profile					
2.1. 1 Demand Ratio during the year					
Name of the Programme		Number of seats available	Number of applications received		Students Enrolled
UG - B.Sc.		2200	Not Available (Online Admission done centrally by Dept. of Higher Education Govt. of M.P.)		2185
UG – BCA		120	- do -		120
PG -M.Sc.–Bio Chemistry		25	- do -		24
PG-M.Sc.–Biotechnology		15	- do -		15
PG – M.Sc. – Botany		20	- do -		18
PG – M.Sc. – Chemistry		40	- do -		38
PG – M.Sc.– Computer Sc.		30	- do -		15
PG – M.Sc. – Fisheries		20	- do -		04
PG – M.Sc. – Forensic Sc.		30	- do -		30
PG – M.Sc. – Geology		25	- do -		17
PG – M.Sc. – Mathematics		60	- do -		53
PG –M.Sc. – Microbiology		20	- do -		20
PG –M.Sc.–Pharma.Chem.		20	- do -		20
PG – M.Sc. – Physics		25	- do -		15
PG – M.Sc. – Statistics		25	- do -		21
PG – M.Sc. – Zoology		20	- do -		18
2.2 Catering to Student Diversity					
2.2.1. Student – Full time teacher ratio (current year data)					
Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full-time teachers available in the institution teaching only UG courses	Number of full-time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018-19	6365	589	202	31	202
2.3 Teaching – Learning Process					
2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)					
Number of teachers on roll	Number of teachers using ICT (LMS, e-Resources)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
202	125	Available	23	13	Over Head Projector, Power Point Presentation, e-Library (del-net Infibnet), e-book, online videos & animation, Internet, etc.
.					
2.3.2 Students mentoring system available in the institution? Give details.(maximum 500 words)					

For mentoring of the students proctors are assigned for every class and section at UG and PG level. The proctor acts as a mentor for the students of his section and he guides the students throughout the session. Mentor/proctor periodically meets the students to solve their problems. Proctors continuously monitor, counsel and motivate students and help them in academic matters. Students are also free to meet the proctor any time to discuss their problems, if they have any. The proctor also meets the parents/ guardians of the students if required. Activities like seminars and open sessions are organized for helping the students to choose the right career. Mentors act as a link between the students and the institution and perform following functions:

- Sign Identity cards of the students and conform admission of students in the beginning of the session.
- Meet the students regularly.
- Continuously monitor, counsel, guide and motivate the students in all academic matters.
- Advice students regarding choice of electives, projects, summer training in industries etc.
- Contact parents/ guardians occasionally.
- Advice students in their career development.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
6954	202	1:34

2.4 Teacher Profile and Quality

2.4.1 Number of full-time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D.
Regular: 107	87	20	87	72
Temporary Faculty:127	121	06	121	26
Total: 234	208	26	208	94

2.4.2 Honours and recognitions received by teachers

(Received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of award	Name of full-time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018 - 19	Dr. V. K. Sharma	Professor (Zoology)	Documentary film on "Wanted Bride" 1. "Best Documentary Film Award" in Prakirti Film Festival 21-23Jan 2019. Organized by consortium for education communication (State level). 2. "Golden beaver and best cinematography award" in 9 th Indian Science Film Festival 2019, 27-31 Jan 2019. Organized by Vgyan Praar, DST, India at Chandigarh University, Mohali (National Level). 3. "Best documentary award" in Indian film festival of MP, 20-22 Feb. 2019(State level). 4. Cineaste International film festival of India held at Delhi Metropolitan Education Noeda (UP), 17-20 April 2019 awarded his documentary "Predating the Predator" with Jury mention award (International Level) .
2019	Dr.Shweta Hardia	Temporary Faculty (Micro)	Yoga Trainer

2.5 Evaluation Process and Reforms				
2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year				
Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
B.Sc.	U001	Semester	21.05.19	15.06.19
B.C.A.	U002	Semester	02.05.19	15.06.19
M.Sc.	P003	Semester	06.05.19	20.06.19
2.5.2 Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year <i>*Do not include re-evaluation/ re-totalling</i>				
Number of complaints or grievances about evaluation		Total number of students appeared in the examination		Percentage
301		8188		3.67%
2.6 Student Performance and Learning Outcomes				
2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the web link)				
(Annexure V)				
2.6.2 Pass percentage of students				
Programme Code	Progra mme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage
U001	B.Sc.	1504	1267	82.91%
U002	B.C.A.	92	84	91.30%
P003	M.Sc.	261	250	95.79%
2.7 Student Satisfaction Survey				
2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink) - NIL				

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION					
3.1 Promotion of Research and Facilities					
3.1.1 The institution provides seed money to its teachers for research,					
Yes, At least 25% of department fund allotted may be utilized in upgrading research facilities.					
Name of the teacher getting seed money	The amount of seed money		Year of receiving grant	Duration of the grant	
Nil	Nil		Nil	Nil	
3.1.2 Teachers awarded National/International fellowship for advanced studies/ research during the year					
	Name of the teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency	
National	Nil	Nil	Nil	Nil	
International	Nil	Nil	Nil	Nil	
3.2 Resource Mobilization for Research					
3.2.1 Research funds sanctioned and received from various agencies, industry and other organizations					
Nature of the Project		Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major projects		3 Years	UGC DAE CSR	1527879	239880 (Physics)
Minor Projects					
Interdisciplinary Projects		--	--	--	--
Industry sponsored Projects		--	--	--	--
Projects sponsored by the University/ College		--	--	--	--
Students Research Projects (other than compulsory by the College) “Water Analysis Project”		1Year (2018-19)	Govt. Holkar Sc. College, Indore	--	Departmental source (Microbiology)
International Projects		--	--	--	--
Any other(Specify)		--	--	--	--
Total		--	--	1527879	239880
3.2.2 Number of ongoing research projects per teacher funded by government and non-government agencies during the years					
Major Project – 01 (Physics), Student Project – 01(Microbiology)					
3.3 Innovation Ecosystem					
3.3.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year					
Title of Workshop/Seminar			Name of the Dept.	Date(s)	
International Conference on “New Fangled Methods of Physical Chemistry and Mathematics”			Dept. of Mathematics	29-30/03/19	
National Seminar on “Recent Trends in Basic Sciences, RTBS-2018”			Department of Chemistry	03- 04/10/18	
Prof. Dinesh Varshney memorial National conference on “Physics and Chemistry of Materials (NCPCM-2018)			Dept. of Physics & School of Physics	27-28/12/18	
Bhuvisanwad (Academic Instruction Programme)			Dept. of Geology	31/10/18	
3.3.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year					

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
Nil	Nil	Nil	Nil	Nil
3.3.3 No. of Incubation centre created, start-ups incubated on campus during the year				
Incubation Centre	Name		Sponsored by	
Nil	Nil		Nil	
Name of the Start-up	Nature of Start-up		Date of commencement	
Nil	Nil		Nil	
3.4 Research Publications and Awards				
3.4.1 Ph. Ds awarded during the year				
Name of the Department		No. of Ph. Ds Awarded		
Botany		04		
Maths		02		
Zoology		03		
Chemistry		02		
Physics		02		
Total		13		
3.4.2 Research Publications in the Journals notified on UGC website during the year				
	Department	No. of Publication	Average Impact Factor, if any	
National	Botany	03	--	
	Bio Tech. & Bio Info.	01	--	
	Zoology	01	--	
	Chemistry	01	--	
	Geology	01	--	
	Fisheries	01	3.213	
	Total	08		
International	Biochem	02	--	
	Botany	07	--	
	Seed & Hort.	01	5.12	
	Comp. Sc.	01	01	
	Electronics	01	--	
	For. Sc.	01	2.54	
	Mathematics	03	--	
	Zoology	32	--	
	Chemistry	13	5.88	
	Physics	23	5	
	Total	84		
	Grand Total	92	1.75	
3.4.3 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year				
Department		No. of publication		
Seed & Hort.		01 (Seed Technology II, ISBN817677355-7)		
Comp. Sc.		02(Handbook of Research on Promoting Business Process Improvement Through Inventory Control Techniques (Exploration of Fuzzy System with Applications & Courses Personalization in an E-Learning Environment: An Approach for Adaptive Learning Systems Based on User Model)		
For. Sc.		01 (International Conference on Science Technology & Society		

	held on January 12-13, 2019)
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3.4.4 Patents published/awarded during the year						
Patent Details		Patent status Published/Filed		Patent Number		Date of Award
Nil		Nil		Nil		Nil
3.4.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index						
Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Role of Soluble Silica in allivating Oxidative Stress in Soyabeen crop	T. Rangwala, A. Bafna., N. Vyas and R. Gupta	Indian Journal of Agricultural research communication centre	2018	Nil	Dept. of Biochemistry, Holkar Science College, Indore	03
Role of Soluble Silica in countertracting lead toxicity in Wheat (Triticumaestivum)	Sandhya Sharma, Angurbala Bafna, Rohan Gupta and Nagesh Vyas	Indian Journal of Agricultural Biochemistry	2018	Nil	Dept. of Biochemistry, Holkar Science College, Indore	Nil
A study on protein target validation and functional annotation of hypothetical of hypothetical protein for shigella dysenteriae	Prof. Aakriti Shrivastava	Indian journal of applied research (biological science)	2018	Nil	Dept. of Bioinfo. & Biotech., Holkar Science College, Indore	Nil
Some Rare Herbs of Alirajpur, Madhya Pradesh India	Thakur A, Sanjeeda Iqbal,	International Education & Research Journal	2018	Nil	Dept. of Botany, Holkar Science College, Indore	Nil
Growth in Area, Yield and production of Major Crops in Malwa Planteau Agro Climatic Zone of Madhya Pradesh	H.L. Khapedia, Iqbal Sanjeeda, Sanjay Sharma, Ravindra Singh Sikarwar	International Journal of Current Microbiology and applied Sciencees	2018	Nil	Dept. of Botany, Holkar Science College, Indore	Nil
Forecasting Wheat Productivity and Production of Madhya Pradesh India, Using Autoregressive Integrated Moving Average Models	H.L. Khapedia, Iqbal Sanjeeda, Sanjay Sharma, Ravindra Singh Sikarwar	International Journal of Current Microbiology and applied Sciences	2018	Nil	Dept. of Botany, Holkar Science College, Indore	Nil
Phytoremediation of waste water by	Priyanka Khare and Dr. N.K. Jain	Journal of Pharmacognos	2019	Nil	Dept. of Botany, Holkar	Nil

constructed wetland system in govt. new law college Indore		y and Photochemistry			Science College, Indore	
Comparative Phytochemical Screening of Curcuma Angustifolia Curcuma decipiens and Curcuma longa by using GC-MS	Neerajna Mehara and Dr. Navin Kumar Jain	Journal of Pharmacognosy and Photochemistry	2019	Nil	Dept. of Botany, Holkar Science College, Indore	Nil
The Assessment of Early Blight Resistance in Different Variety of Solanum tuberosum and Biological Management of Early Blight	Reena Sastiyal ^{1,*} , S.M.A. Naqvi ² , N.K. Jain ¹	Journal of Drug Delivery and Therapeutics	2019	Nil	Dept. of Botany, Holkar Science College, Indore	Nil
The Isolation and Molecular Identification of Bacterial and Fungal Species from Potato Fields of Indore District of Madhya Pradesh	Reena Sastiyal ^{1,*} , S.M.A. Naqvi ² , N.K. Jain ¹	Journal of Drug Delivery and Therapeutics	2019	Nil	Dept. of Botany, Holkar Science College, Indore	Nil
DYE YIELDING PLANTS OF BARWANI DISTRICT, MADHYA PRADESH	Seemavati Sisodiya	Journal of Plant Development Sciences	2019	Nil	Dept. of Botany, Holkar Science College, Indore	Nil
Isolation and identification of keratinophilic fungi from regional park of Indore, (M.P.)	Dr. Sanjay Vyas	Journal of emerging technology and innovative research (Jetir)	2019	Nil	Dept. of Botany, Holkar Science College, Indore	Nil
ANTIFUNGAL ACTIVITY OF WEED'S EXTRACTS AGAINST IMPORTANT PHYTOPATHOGENS	Dr. Sanjay Vyas and Deepti Khare	Journal of emerging technology and innovative research (Jetir)	2019	Nil	Dept. of Botany, Holkar Science College, Indore	Nil
Corrosion Inhibition of Mild Steel by Benzotriazole in 1M and 2M Sulfuric Acid Solution	Deepika Tanwar, Sandeep Kumar Gohar and P. Ram Sankar	International Journal of Theoretical & Applied Sciences	2018	Nil	Dept. of Chemistry, Holkar Science College, Indore	Nil

“STUDY OF HYPOTHESIS FOR ACIDITY FUCTIONS IN MICELLER CATALYZED OXIDATIVE DEAMINATION AND DECARBOXYLATION OF GLYCINE BY ACIDIC PERMANGANATE”	Nameeta Bende and Vijay R. Chourey	WORLD JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCES	2018	Nil	Dept. of Chemistry, Holkar Science College, Indore	Nil
“ESTIMATION OF IRON METAL CONTENTS IN NATURAL SAMPLES BY UV-VISIBLE SPECTROPHOTOMETER METHOD”	Rachana Dubey and Nameeta Bende	World Journal of Pharmaceutical Research	2018	Nil	Dept. of Chemistry, Holkar Science College, Indore	Nil
“DETERMINATION OF IRON METAL CONTENTS IN NATURAL SAMPLES BY ATOMIC ABSORPTION SPECTROPHOTOMETRIC METHOD”	Rachana Dubey and Nameeta Bende	World Journal of Pharmaceutical Research	2018	Nil	Dept. of Chemistry, Holkar Science College, Indore	Nil
“STUDY OF HYPOTHESIS FOR ACIDITY FUCTIONS IN MICELLER CATALYZED OXIDATIVE DEAMINATION AND DECARBOXYLATION OF L-ALANINE BY ACIDIC PERMANGANATE”	Nameeta Bende and Vijay R. Chourey	World Journal of Pharmaceutical Research	2018	Nil	Dept. of Chemistry, Holkar Science College, Indore	Nil
COMPARATIVE ASSESSMENT OF WATER QUALITY OF RIVER KSHIPRA DURING KUMBH MELA UJJAIN, 2016	Dr. Sandeep Kumar Gohar, Dr. Ashok Barua and Dr. Prakash Solanki	IJSDR	2018	Nil	Dept. of Chemistry, Holkar Science College, Indore	Nil
Comparative study of	Prakash Solanki,	IJSDR	2018	Nil	Dept. of	Nil

preliminary phytochemical extracts of Catharanthus roseus Leaves.	Sandeep kumar Gohar, Ashok Barua Mahesh Baviskar .				Chemistry, Holkar Science College, Indore	
Stability constant and Thermodynamic parameters of Cu (II) Complex with N-6-Benzylaminopurine as an anticancer compound using Spectrophotometric method	VIBHA MALVIYA, LAXMI TANTUVAY	IJRTI	2018	Nil	Dept. of Chemistry, Holkar Science College, Indore	Nil
Adsorption of Crystal Violet Dye from Wastewater by Zeolite Synthesized from Coal Fly Ash	Chanchala Alawa, I.P. Tripathi, M. K. Dwivedi	International Journal of Engineering Technology Science and Research	2018	Nil	Dept. of Chemistry, Holkar Science College, Indore	Nil
Two novel lipid constituents from the leaves of artabotrys odoratissimus	Pramila Kori	Ind. Res. Comm.	2019	Nil	Dept. of Chemistry, Holkar Science College, Indore	Nil
Analysis of water of River Kshipra during kumbh mela 2016 Ujjain , MP	Dr. Ashok Barua	International Journal for Research Trends and Innovation	2019	Nil	Dept. of Chemistry, Holkar Science College, Indore	Nil
Phytochemical screening of fenugreek (Trigonella foenum-graecum L) leaf extract in some organic solvent.	Dr. Ashok Barua	Review of research	2019	Nil	Dept. of Chemistry, Holkar Science College, Indore	Nil
Removal of Methylene Blue Dye from Wastewater using Zeolite Synthesized from Coal Fly Ash	M. K. Dwivedi, I.P. Tripathi, Chanchala Alawa & Priyanka Shrivastava	IOSR Journal of Applied Chemistry (IOSR-JAC)	2019	Nil	Dept. of Chemistry, Holkar Science College, Indore	Nil
Role of Sodium Lauryl Sulphate in Toothpaste used by common people	Namita Bende	International Conference on Science Technology and Society	2018	Nil	Dept. of Chemistry, Holkar Science College, Indore	Nil
Investigation of Efficient SKC Cryptic	Shiv Lal Mewada	International Journal of	2019	ICI	Dept. of Comp. Sc. ,	Nil

Algorithm for Image Encipherment and Decipherment Using SMCrypter.		Computer Science and Engineering			Holkar Science College, Indore	
Hindi word correction using micro-parsing	Kapil Kumar Kushwah, Brijendra Kumar Joshi	Int. J. Arts and Technology	2019	Nil	Dept. of Electronics , Holkar Science College, Indore	Nil
DIFFERENTIAL CELL VIABILITY IN NITZSCHIA PALEA ON EXPOSURE TO DIFFERENT ORGANIC AND INORGANIC ENVIRONMENTAL EFFLUENTS	ANKESH AHIRWAR S.GUPTA, MRINAL KASHYAP & P. SHUKLA, VANDANA VINAYAK	INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY	2019	Nil	Dept. of For. Sc., Holkar Science College, Indore	Nil
Study of Average Growth Performance & Condition Factor of Fish (Indian Major Carps) in the Sub Pond of the Gawala Talab, Maheshwar, Khargone MP	Rohit Verma	International Journal of Zoology Studies	2018	Nil	Dept. of Fisheries, Holkar Science College, Indore	Nil
A Web Based Open Source GIS Tool for Roof Water Runoff Estimation	Shailesh Chaure	Journal of Rural Development, Vol. 37, No. (2)	2018	Nil	Dept. of Geology , Holkar Science College, Indore	NIL
Genetic variability Heritability & diversity for Yield Contributing Traits in Reference Varieties of Wheat	Ashok Jat	Indian Journal of Plant Genetic Resources	2018	Nil	Dept. of Horticulture, Holkar Science College, Indore	NIL
Generalized common fixed point theorem of compatible mapping of type Φ in complete metric space Generalized common fixed point theorem of compatible mapping of type (R) in complete metric space	R.K. Sharma, Akash Singhal, Anil Agrawal	IJMA 9(5), 98-101, 2018	2018	Nil	Dept. of Mathematics, Holkar Science College, Indore	NIL
Single Slope Single Basin Solar Still	Raich V. Yadav N.	IOSR journal of mathematics	2018	Nil	Dept. of Mathematics,	NIL

Using Fuzzy Logic		vol 14 issue 3			Holkar Science College, Indore	
A Common Fixed Point Theorem for Four Self Maps in Cone Metric Spaces	R.K. Sharma, Akash Singhal Anil Agrawal	AIP Conference Proceedings 2142, 170021 (2019);	2019	Nil	Dept. of Mathematics, Holkar Science College, Indore	NIL
Influence of sulfur doping on the electrical and thermal transport properties of FeTe _{1-x} S _x superconductors	Pavitra Devi Lodhi, Netram Kaurav, R.Y. Huang, Y.K. Kuo	J. Phys Chem. Solids	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Seebeck Coefficient Measurement and Its Narrow Band Model Interpretation in FeTe _{0.5} Se _{0.5} Superconductor	Pavitra Devi Lodhi, Netram Kaurav, K. K. Choudhary, Y. K. Kuo	J. Supercond. Nov. Magn.	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Enhancement in specific heat by nanocrystallization: Softening of phonon frequencies mechanism	K. K. Choudhary, Dron Mishra, Uttam Sharma and N. Kaurav	Int. J Mod. Phys. B	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
The Effect of Ni ²⁺ Ions on Energy Band Gap of TiO ₂ Nanoparticles for Solar Cell Applications	P. Soni, V.V.S. Murty, K.K. Kushwaha	Journal of Nanoscience, Nanoengineering & Applications	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Efficiency of solar cells based on natural dyes with plasmonic nano particle based photo anode	Kirti Sahu, Mahesh Dhonde & VVS Murty	International Journal of Nano science	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Facile synthesis of Cu/N co -doped TiO ₂ nanoparticles and their optical and electrical properties	Mahesh Dhonde, Kirti Sahu, VVS Murty & Khushboo Purohit	Indian Journal of Physics	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Novel Synergistic combination of Al/N co -doped TiO ₂ nanoparticles for highly efficient dye sensitized solar cells	Kirti Sahu Dhonde, Mahesh Dhonde & VVS Murty	Solar Energy	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Novel sol –gel synthesis of Al/N co -	Mahesh Dhonde, Kirti Sahu	Journal of Material	2018	Nil	Dept. of Physics,	NIL

doped TiO ₂ nanoparticles and their structural, optical and photocatalytic properties	Dhonde & VVS Murty	Science: Material s in electronics			Holkar Science College, Indore	
Enhanced photovoltaic performance of a dye sensitized solar cell with Cu/N co -doped TiO ₂ nanoparticles	Mahesh Dhonde, Kirti Sahu, VVS Murty, Siva Sankar Nemala, Parag Bhargava & Sudhanshu Malick	Journal of Material Science: Material s in electronics	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Latent heat enhancement using CuO nanoparticles in paraffin for thermal energy storage applications	Khushboo Purohit, Mahesh Dhonde, Kirti Sahu & VVS Murty	Journal of Advance Research in Applied Sciences	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Characterization of benzil bis o-phenylenediamine based macro cyclic Co-complexes using x-ray spectroscopic techniques (XRD and EXAFS)	Sadique Mohammad, A. Mishra, P. Sharma, S. Patidar	International Journal of Scientific Research in Physics and Applied Sciences	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Synthesis and Spectral characterisation of biologically relevant Cu (II) complexes of Schiff base	Mona Gupta, Pradeep Sharma, Ashutosh Mishra	International Journal of Scientific Research in Physics and Applied Sciences	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Near edge K-Shell X-ray absorption fine structure (NEXAFS) Analysis of Co (II) Mixed Ligand Complexes with Schiff base and 3-hydroxy Picolinamide Ligands	A. Rammaiya, N. Parsai, P. Sharma, A. Mishra and P. Sharma	International Journal of Scientific Research in Physics and Applied Sciences	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
X-ray absorption near-edge structure study of benzil bis o-phenylenediamine based macro cyclic Cu-complexes	Sadique Mohammad, P. Sharma, A.Mishra, S. Patidar, K.S. Sura	International Journal of Scientific Research in Physics and Applied Sciences	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
SYNTHESIS, XRD	Mona Gupta,	International	2018	Nil	Dept. of	NIL

AND XANES SPECTRAL INVESTIGATION OF BIOLOGICALLY ACTIVE COBALT (II) SCHIFF BASE COMPLEXES	Pradeep Sharma, Ashutosh Mishra	Journal of Engineering, Science and Mathematics			Physics, Holkar Science College, Indore	
Investigation of transport properties of FeTe compound	Netram Kaurav	Proc. of 2nd International Conference on Condensed Matter and Applied Physics (ICC 2017)	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Polaron formation in normal state optical conductivity of iron-based superconductor	Netram Kaurav	Proc. of 2nd International Conference on Condensed Matter and Applied Physics (ICC 2017)	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Theoretical analysis of the structural phase transformation in the ZnO under high pressure	Saligram Verama	Proc. of 2nd International Conference on Condensed Matter and Applied Physics (ICC 2017)	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Theoretical analysis of the structural phase transformation from B3 to B1 in BeO under high pressure	Saligram Verama	Proc. of 2nd International Conference on Condensed Matter and Applied Physics (ICC 2017)	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Pressure induced structural phase transition in metal nitrides: An effective interionic potential calculations	Shubhangi Soni	Proc. of 2nd International Conference on Condensed Matter and Applied Physics (ICC 2017)	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Structural stability and mechanical properties of technetium mononitride (TcN)	Shubhangi Soni	Proc. of 2nd International Conference on Condensed Matter and Applied Physics (ICC 2017)	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Size effect on thermoelectric properties of Bi ₂ Te ₃ nanoparticles	Netram Kaurav	Proc. of 2nd International Conference on Condensed Matter and	2018	Nil	Dept. of Physics, Holkar Science College,	NIL

		Applied Physics (ICC 2017)			Indore	
Nano sized La ₂ Co ₂ O ₆ double perovskite synthesized by sol gel method	Netram Kaurav	Proc. of 2nd International Conference on Condensed Matter and Applied Physics (ICC 2017)	2018	Nil	Dept. of Physics, Holkar Science College, Indore	NIL
Measurement of transparency using Prakash-Dagaonkar column method at Munj sagar talaab, Dhar(M.P.)	M.M.P. Shrivastava	J. Env. Sciences Toxicology and Food Technology	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Effect of various narcotics drugs on sensory response on chick, sole and palm of drugs addict person	M.M.P. Shrivastava	Int.J.Pharmaco l. Biol.Sci.	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Study of lymphocyte migration inhibition factors in mice experimentally infected and vaccinated with Aspicularistetraptera	M.M.P. Shrivastava & Santosh Gaherwar	Int. J. of Zoology Studies	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Change Albumin and globulin in mice experimentally infected and vaccinated with Aspicularistetraptera	M.M.P. Shrivastava	International Journal of Research	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Application of Multivariate Statistical Metod (Cluster Analysis) to Physico-Chemical Parameters of MunjSagarTalab, Dhar(Madhya Pradesh, India).	M.M.P. Shrivastava	Ind Res. Comm	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
A Study of Avian fauna at Ralamandal Wildlife Sanctuary, Ralamandal, Dist. Indore (MP)	Santosh Gaherwal	International Journal of Current Trends in Science and Technology	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Biochemical Changes in Kidney and Liver of Clarias batrachus	Santosh Gaherwal	International Journal of Zoology	2018	Nil	Dept. of Zoology, Holkar Science	NIL

induced by cypermethrin		Studies			College, Indore	
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Diversity of Benthic macroinvertebrate in Samalda Reservoir District Dhar (MP)	Santosh Gaherwal	Research Journal For interdisciplinary Studies	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Synthesis of plants extract mediated copper nanoparaticles and thir impact on Pathogenic Bacteria	Santosh Gaherwal	International Journal of Research and Analytical Reviews	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Effect of Juvenile Hormone Analogue (Methoprene) on Development of Silkworm Larvae and Silk Production	Santosh Gaherwal	International Journal of Research	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Evaluation of Antimicrobial Potential of Silver Nanoparticles using Osmium Sanctum Ficus Bengalensis against Two Pathogenic Bacteria	Santosh Gaherwal	International Journal of Research	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Effect of herbicide 2,4-D on hematological parameters of Clarias Batrachus	Santosh Gaherwal	International Journal of Current Research in Life Science	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
A Preliminary study on Avian Fauna at Govt. (Model, Autonomous) Holkar Science College, Indore, (MP)	Santosh Gaherwal	International Journal of Scientific Research in Biological Sciences	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Diversity of Macro invertebrates in Kunda reservoir District Dhar MP	Santosh Gaherwal	International Journal of Zoology Studies	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
To compare the dominance of Natural enemy complex against maize stem borer, Chilopartellus	Santosh Gaherwal	International Journal of Advance Research in Science & Engineering	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL

Observation of Nest Building by Birds at Indore City	Santosh Gaherwal	Journal of Shanghai Jiaotong University	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Mating strategies of solifugae Galeodes Olivier 1791, (arachnida: galeodidae) in laboratory conditions	Vipul K. Sharma	International Journal of Zoology and Applied Biosciences.	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Study of Benthic macro Invertebrates Communities of Narmada River in (M.P.)	Ram Prajapati	International Journal of Science and Research (IJSR)	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Study of Correlation of Drinking Water in Indore City (M.P.)	Ram Prajapati	International Journal of Science and Research (IJSR)	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Acute toxicity assessment of Chlorpyrifos 20% EC to Clarias batrachus (Linnaeus, 1758)	Abida Qureshi	International Journal of Zoology Studies	2018	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
A study of avian diversity and temporal variation in various green spaces of Indore City	Santosh Gaherwal	International Journal of Recent Scientific Research	2019	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
A Study on Avian Fauna at Pipliyapala Regional Park, Indore, MP	Renu Jain, Osho Bhosle, C.S. Shrivastva, Santosh Gaherwal	Journal of the Bombay Natural History Society	2019	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Alteration of Clinical parameters in 7,12dimethylbenz(A) anthracene (DMBA) induces oral squamous cell carcinoma rat	Amita Shukla and V. K. Sharma	Life Science Bulletin	2019	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Biochemical response of heavy metal, Sodium arsenate exposure in catfish Clarias Batrachus	Santosh Gaherwal	International Journal of Current Advance Research	2019	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Biological Control of Mosquito Population	Devendra Mishra, V.K.Sharma,	Life Science Bulletin	2019	Nil	Dept. of Zoology,	NIL

by Bradinopgya Geminata	Asha Pal				Holkar Science College, Indore	
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Clinical Manifestation alterations in 7, 12 dimethylbenz (A) anthracene (DMBA) induced oral squamous cell carcinoma rat model	Amita Shukla and V K Sharma	Indian research communication	2019	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Determination of Different Diseases and preventive Measures of Mulberry Silkworm	Renu Jain, Neha Sisodiya, Santosh Gaherwal	International Journal of Scientific Research in Biological Sciences	2019	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Diversity of Benthic macroinvertebrate in Samalda Reservoir District Dhar (MP)	Santosh Gaherwal	Scholarly Research Journal for Interdisciplinary Studies	2019	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Diversity of Odonates at Sirpur Pond, Indore	Devendra Mishra, V.K.Sharma, Asha Pal	International Journal of Zoology and Applies Biosciences	2019	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Effect of Bovine Milk on the Growth and Economic Traits of Silkworm Bombyx Mori	Santosh Gaherwal	International Journal of Research and Analytical Reviews	2019	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Effect of cypermethrin and 2, 4-Dichlorophenoxy acetic acid on histopathological changes in liver of Clarias batrachus	Santosh Gaherwal	Pramana Research Journal	2019	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Effect of heavy metal toxicity, arsenic trioxide on the Biochemical Parameter of Fresh water Fish, Clarias Batrachus	Santosh Gaherwal	EM International	2019	Nil	Dept. of Zoology, Holkar Science College, Indore	NIL
Effects of Amla extract (Phyllanthus Emblica) on	Santosh Gaherwal	Pramana Research Journal	2019	Nil	Dept. of Zoology, Holkar Science	NIL

Biological and Economical characteristics of the Silkworm, Bombyx Mori					College, Indore	
3.4.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science)						
Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Nil	Nil	Nil	Nil	Nil	Nil	Nil
.						
3.4.7 Faculty participation in Seminars/Conferences and Symposia during the year :						
No. of Faculty	International level		National level		State level	Local level
Attended Seminars/ Workshops	08		114		21	42
Presented papers	46		05		02	00
Resource Persons	03		00		04	01
3.5 Consultancy						
3.5.1 Revenue generated from Consultancy during the year						
Name of the Consultant(s) department		Name of Consultancy project		Consulting/Sponsorin g Agency		Revenue generated (amount in rupees)
Nil		Nil		Nil		Nil
3.5.2 Revenue generated from Corporate Training by the institution during the year						
Name of the Consultant(s) & Department		Title of the Programme	Agency seeking training		Revenue generated (amount in rupees)	Number of trainees
Nil		Nil	Nil		Nil	Nil
3.6 Extension Activities						
3.6.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year						
Title of the Activities				Organizing unit/ agency/ collaborating agency		Number of teachers co-ordinate d in such activities
Plantation (29/07/18)				Red Cross Soc. & Health care Soldiers (Biochem)		05
Komi ekta week (19-25/11/18)				Red Cross Soc. (Biochem)		05
Health checkup camp (29-30/10/18)				Red Cross Soc. & Arvindo Medical College (Biochem)		05
Eye Test camp (15/10/18)				Red Cross Soc. & Lorens Mayo Sesitive (Biochem)		05
Matdata Jagrukta Rally (24/10/18)				Red Cross Soc. & Amulya Club (Biochem)		05
Population Rally: Rally from Gandgi Hal to				NSS		04

Rajwada Indore (17/07/18)			
Plantation: Plantation in College campus (30/07/18)	NSS	04	50
Poster Making competition: Poster Making Theme “Swacchhata hi seva” in college campus (27/07/18)	NSS	05	55
Swacchhta rally: Nukkad Natak Presentation at college campus (29/09/18)	NSS	04	55
Garden construction: Garden construction at college campus (17/10/18)	NSS	03	50
Marathon Rally: Marathon rally for Vote “vote Indore vote” from Nehru stadium to Geeta Bavan Indore (24/10/18)	NSS	10	150
Cycle Rally: Cycle rally (paddle rally for vote) from Nehru stadium to Palasiya Indore (26/11/18)	NSS	12	65
AIDS Awareness: Pledge taken AIDS awareness in college campus (02/12/18)	NSS	05	50
Road Safety week: Poster making, essay and debate competition in college campus and Nukkad Natak at Navlakha square Indore (05-11/02/19)	NSS	02	35
Blood donation camp: Blood donation camp in college campus (21/02/19)	NSS	05	50
“Yuva Shastra” app launching: Attended the programme of launching app “Yuva Shastra” by honorable Higher Education Minister (09/03/19)	NSS	03	50
NSS camp: At Village Asrawad (10 - 17/01/19)	NSS	05	55
Swacchha Bahrat Abhiyan Prog.	1MPBNNCC (Girls)	01	23
Swacchha Abhiyan Rally	1MPBNNCC (Girls)	01	35
Constitution Day Celebration	9MPBN NCC	01	15
Science Exhibition (28-29/02/19)	Dept. of Pharma	05	45
Old Age home visit: Visited Jyoti Niwas Old Age Home (05/04/19)	Dept. of Pharma	04	35
Gosthi : “Indore City: - Jal Evam Paryavaran : Sankat Samadhan evam Upay” (06/08/19)	Dept. of Geology	08	45
Awareness programme: Banking Awareness programme (21/02/19)	Dept. of Micro Bio.	05	50

3.6.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited
NSS(Boys)	One student selected for State Level Camp (25.02- 03.03/2019)	State	01 Rinkesh Rotel
NSS(Girls)	One student selected for National Adventure Camp at Shimla HP (10 – 22/09/18)	National	01 Avni Verma
NSS(Girls)	One student selected for National level camp. (Pre.RDC) at Nift, Hattiya, Ranchi, Zarkhand, India (03- 13/10/2018)	National	01 Saloni Nagar
NSS(Girls)	One student selected for National level camp. (RDC) at New Delhi (31/12/18-31/01/19)	National	01 Saloni Nagar
NSS(Girls)	Two students selected for State level camp at Sailana (Bhilon Ki Khedi, Ratlam, M.P. (25/02-03/03/19)	State	02 Saloni Nagar, Roshni Bopche
1MPBNCC (Girls)	NATIONAL(Ek Bharat shreshta Bharat), 2018(19 - 30/11/18)	National	03,Anam Sheikh, Bhoomika Seerwani,

			Aditi Mudgal
1MPBNCC (Girls)	NATIONAL(Ek Bharat Shreshtha Bharat camp) (Vallam), 2018 (06 - 17/11/18)	National	01, Kalpana Ojha
1MPBNCC (Girls)	NATIONAL, SSB31, 2018	National	01, Bhoomika Seerwani
1MPBNCC (Girls)	NATIONAL , Trekking 2019(Bajinath)(08 - 17/06/19)	National	03, Nidhi Pandey, Sheetal Namdeo, Khyati Gupta
9MPBNCC (Boys)	NATIONAL, TSC	National	Sanjay Jatav
2MPBNCC (Armed)	National	National	08, Pallavi Vishwakarma, Niranjani Sharma, Vandana Rawat, Vaishali Verma, Preeti Badgujar, Dharmendra Chouhan, Lokesh Bhade, Malay Panchakshari

3.6.3 Students participating in extension activities with Government Organizations, Non-Government Organizations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organizing unit/ agency/ collaborating agency	Name of the activity	Number of teachers co-ordinated such activities	Number of students participated in such activities
Kisan Divas	Seed Tech. & Horticulture	Kisan Divas	11	53
Voter's Awareness Program	District Election Office, Indore (M.P) & (For. Sc.)	Marathon "Vote India Vote" (24.10.2018)	All College Staff	500
Voter's Awareness Program	District Election Office, Indore (M.P) (For. Sc.)	Madyapan Nishedh Pledge (31.01.2019)	02	30
Voter's Awareness Programme	District Election Office, Indore (M.P) (For. Sc.)	Voter's awareness related competitions like Slogan & Essay writing, Debate, Drawing etc. (25.01.2019)	07	14
SBI YONO Awareness Program	Dept. of Microbio. & SBI, Holkar College Branch, Indore	Awareness Program on SBI YONO application, 21/02/2019	05	50
Komi-Ekta Week	Red Cross	(Special Lecture)19-25/11/18	05	30
Population Rally	NSS	Rally from Gandgi Hal to Rajwada Indore (17/07/18)	04	55
Swacchhta hi seva	NSS	Poster Making Theme "Swacchhata hi seva" in college campus (27/07/18)	05	55
Swacchhta Rally	NSS	Nukkad Natak Presentation at college campus (29/09/18)	04	55
AIDS awareness	NSS	Pledge taken AIDS	05	50

pledge		awareness in college campus (02/12/18)		
Road safety week	NSS	Poster making, essay and debate competition in college campus and Nukkad Natak at Navlakha square Indore (05-11/02/19)	02	35
3.7 Collaborations				
3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year				
Nature of Activity	Participant	Source of financial support	Duration	
Research Activity	T. Rangwal & Sandhya Sharma	Nil	2018-19	
3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year				
Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
Internship (Bot)	Aspect of wheat crop improvement	IARI, Indore	Jan. to Feb. 2018-19	PG08
-do-	Fruit and jam preparation and Preservation	Horticulture Department, Indore	-do-	PG05
-do-	Tissue culture	Forest nursery, Indore	-do-	PG06
Internship (Micro Bio)	Internship	Gurjar Hospital, Indore	2018-19 (Jan.- Feb.)	UG10, PG03
-do-	Internship	Suyog hospital, Indore	2018-19 (Jan.- Feb.)	UG05
-do-	Internship	Swastik Pathology Lab, Indore	2018-19(Jan.- Feb.)	UG02, PG03
-do-	Internship	Alpa Laboratories ltd, Pigdamber	2018-19(Jan.- Feb.)	UG01
-do-	Internship	SRL limited, Indore	2018-19 (Jan.- Feb.)	UG01, PG02
-do-	Internship	Indore Sahkarita Dugdh Sangh Maryadit	2018-19 (Jan.- Feb.)	UG03, PG07
-do-	Internship	Zenith Drugs Pvt.Ltd. ,Indore	2018-19(Jan.- Feb.)	UG05
-do-	Internship	Forest department badgonda	2018-19(Jan.- Feb.)	UG01
-do-	Internship	Christian Eminent College, Indore	2018-19 (Jan.- Feb.)	PG02
-do-	Internship	Tirupati Fresh Agro Crop Science Pvt., Khargone	2018-19(Jan.- Feb.)	PG02
-do-	Internship	Dada Nirbhay Singh Patel hospital, Indore	2018-19 (Jan.- Feb.)	UG03
PG student's training (Geo)	Internship	Geological Survey of India, Central Region State Unit M.P.,Bhopal	01-31/01/2019 18-28/01/2019	PG05 UG12
-do-	Internship	Coal India Ltd.	29/01-12/02/19	PG01

UG Student's training (Geo)	Internship	Mining Officer, Indore district, Ujjain Dist. and Alirajpur Dist. M.P.		40
-do-	Internship	M/s. S. S. Exploration Enterprises, 80, Anurag Nagar, Indore, M.P.		15
-do-	Internship	Rajmi Geoexploration & Engineering Pvt. Ltd, Indore		15
-do-	Internship	Satguru Cement Pvt. Ltd. (Zirzbad Cement Plant), Airen Height, Pu3, Scheme No. 54, Vijay Nagar, Indore M.P.		15
-do-	Internship	M.P. State Mining Corporation, Phosphorite Mine, Khatamba-Kelkua-Amlamal Blocks, Tehsil-Meghnagar, District-Jhabua, M.P.		10
-do-	Internship	SECL, Seepat Road, Bilaspur, Chhattisgarh		9
-do-	Internship	Rajeev Gandhi Water Shed Mission, Panchayat Office, Panchayat Bhawan, Indore		10

3.7.3 MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organization	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs
Noble Alchem Pvt. Ltd.(Agribooster), Sanwer Road, Indore, M.P.(Biochem)	2018	Research Activities	02
Mata Jija Bai Govt. P. G. College, Moti Tabela, Indore	2019	Research Activities	01
Tuteja's Forensic Examination and Research Centre, Indore (M.P.)	30/03/2019	Training, Collaborative Research, projects/internship, Visit to Court	08
PG Tech Research Institute		Training Prog.	35 (Pharma)
PG Tech Research Institute		Internship by UG Students	30 (Pharma)
Index medical College, Rau, Indore	24/02/19	Academic Programme & Research	--
Wadiya Institute of Himalayan Geology Dehradun	01/01/19	Exchange of researchers, student internship etc	--
Geological Survey of India	18/01/19	Exchange of researchers and research projects	--
Coal India Ltd.	29/01/19	Exchange of researchers and research projects	--
OSGeo India	10/18	Exchange of researchers and research projects	--

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES						
4.1 Physical Facilities						
4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year						
Budget allocated for infrastructure augmentation			Budget utilized for infrastructure development			
32000000			31526500			
4.1.2 Details of augmentation in infrastructure facilities during the year						
Facilities			Existing		Newly added	
Campus area			34 Acres		Nil	
Class rooms			49		02	
Laboratories			44		Nil	
Seminar Halls			05		Nil	
Classrooms with LCD facilities			23		Nil	
Classrooms with Wi-Fi/ LAN			13		Nil	
Seminar halls with ICT facilities			03		Nil	
Video Centre			Nil		Nil	
No. of important equipments purchased (\geq 1-0 lakh) during the current year.			44		04	
Value of the equipment purchased during the year (Rs. in Lakhs)			Nil		334022	
Others			Nil		Nil	
4.2 Library as a Learning Resource						
4.2.1 Library is automated {Integrated Library Management System (ILMS)}						
Name of the ILMS software		Nature of automation (fully or partially)		Version		Year of automation
SOUL		Fully		2.0		2015
4.2.1 Library Services:						
	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value Value
Text Books	63144	--	07	2086	63149	(- 02 W/O)
Reference Books	28890	--	--	--	28890	--
e-Books	Del-net	--	--	--	--	--
Journals	3791	--	--	--	--	--
e-Journals	Infilbnet	--	--	--	--	--
Digital Database	65121	--	--	--	--	--
CD & Video	350	--	--	--	--	--
Library automation	Fully	--	--	--	--	--
Weeding (Hard & Soft)	--	--	--	--	--	--
Others (specify)Thesis	660	--	--	--	660	--
4.2.2 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc						
Name of the teacher	Name of the module		Platform on which module is developed		Date of launching e - content	
Nil	Nil		Nil		Nil	

4.3 IT Infrastructure									
4.3.1 Technology Upgradation (overall)									
	Total Comp uters	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart ments	Available band width (MGBPS)	Others
Existing	259	13	Yes	03	02	18	21	100MBPS	
Added	11	Nil	Yes	Nil	Nil	Nil	Nil	Nil	Nil
Total	270	13	Yes	03	02	18	21	100MBPS	Nil
4.3.2 Bandwidth available of internet connection in the Institution (Leased line)									
100MBPS									
4.3.3 Facility for e-content									
Name of the e-content development facility					Provide the link of the videos and media centre and recording facility				
Nil					Nil				
4.4 Maintenance of Campus Infrastructure									
4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year									
Assigned budget on academic facilities		Expenditure incurred on maintenance of academic facilities			Assigned budget on physical facilities		Expenditure incurred on maintenance of physical facilities		
7000000		6900000			25000000		24626500		
4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities – laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)									
Response:									
The college has its Maintenance Policy which was implemented in 2015. (http://www.collegeholkar.org)									
The college has a lush green campus spread in 34 acres of land. For academic activities the college has a number of buildings like the historical Red Building, Yashwant Hall, Main Office Block, Academic Block, Library, The Examination Department, Various Life Sciences Departments, Boys Hostel and Staff Quarters. The buildings are constructed with state-of-the-art technologies, which consist of energy efficient, water conserving and sustainable building materials. All the buildings are well connected through well maintained roads. The College has huge sports grounds where the sports and physical activities are carried out.									
The college has a dedicated engineering section maintained by PWD. The department looks after the periodic maintenance of the buildings, the roads, excessive rainwater and grey-water drainage. The engineering department maintains the buildings by painting them at regular intervals apart from civil repairs and other maintenance as per the necessity or on request.									
There are 14 science departments with well equipped laboratories, computers, other useful gadgets and ICT facilities. There is a separate research wing in the college where researchers and scholars can work independently.									
Adequate provision in the budget is made by the Janabhagidari Samiti and the State Government to									

conduct the above activities smoothly

The college has a fully automated main library with approximate 92 thousand text and reference books. The departments have their separate departmental libraries also.

The regular monitoring and maintenance of these academic facilities is undertaken by the respective departments through dedicated AMCs and all up-gradation and repair works is done by the department internally. In addition, PWD undertakes periodic survey of the various infrastructures on the campus and takes proactive steps to ensure high standards of maintenance.

The sports facilities on the campus are actively managed by the Sports department, which is headed by two sports officer and their supportive staff. The computers and the networking on the campus are maintained through dedicated AMCs. Computer department and IT cell is also responsible for the maintenance of entire digital physical infrastructure in the campus.

College gardens are maintained by gardeners under the supervision of Garden Committee and Botany department. The college has deputed watchmen and a third Party Security Agency that works under the supervision of the college administration. They are in charge of the security for the institution.

Annual stock checking of furniture, lab equipment, ICT facilities is done internally by the departments. The department makes committee to write off the equipments, books etc. The report is submitted to the administration by the head of department. There are sweepers and a outsourced housekeeping team to look after the cleanliness and hygiene in the college.

CRITERION V - STUDENT SUPPORT AND PROGRESSION			
5.1 Student Support			
5.1.1 Scholarships and Financial Support			
	Name /Title of the scheme	Number of students	Amount in Rupees
Financial support from institution	Half Fee Concession	52	191250
Financial support from other sources			
a) National	SC	608	10667560
	ST	307	5438800
	OBC	843	6859392
	Gaon Ki Beti	157	785000
	Vikramaditya	01	2500
	Pratibha Kiran	18	90000
	Nishaktjan	02	82000
	MMV	2143	28591400
	MJKY	95	1491000
	Central Sector (Chem.)	03	20000
	NFHE(Zoology)	04	25000
Total		4188	54052652
b) International	Nil	Nil	Nil
5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,			
Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Internship Training on Chem-Informatics and Biophysical techniques (Chemistry)	01- 12/02/19	100	Dept. Faculties
Training prog. on “entrepreneurship development” (Career guidance cell &Dept. of Electronics)		30	MSME Institute, Indore
Tr. Prog. on “Computer Hardware & Networking” (Career guidance cell)	07 – 27/09/18	30	Dr. Sanjay Vyas & Expert Team of HTP Computer, Indore
Tr. Prog. on “Plant Tissue of Medicinal Plant and Organic Farming” (Career guidance cell)	17-29/09/18	25	Prof. Akriti Shrivastava, MRSC College, Indore
Tr. Prog. on “Mobile Repairing, DTH Installation & TV Repairing” (Career guidance cell)	04 – 25/09/18	36	Mr. Tarkeshwar Vyas, Vyas Computers, 23 Shyam Nagar NXA
Remedial Coaching (Microbiology)	14/07/18	74	Dept. Faculties
Remedial Classes (Microbiology)	25/06/19	111	Dept. Faculties
Remedial classes (Pharma)	18/10/18	40	Dept. Faculties
Lectures on “Time Management” (Career guidance cell)	03/08/18	55	Dr. Bharti Sisodiya, Dr. Sona Sakte
Lectures on “Swarojgar, Development of	13/08/18	45	Dr. Bharti Sisodiya,

women & Childrens” (Career guidance cell)			Dr. Sona Sakte
Lectures on “Banking & other competitive exams.” (Career guidance cell)	06/10/18	55	Mr. Praveen Kumar, Zonal Business Manager Professional Education
Essay writing competition on “Ahinsa & Gandhi Darshan” and “Mere Sapno Ka Bharat” (Career guidance cell)	05/10/18	25	Dr. Bharti Sisodiya, Dr. Sona Sakte
Lectures on “Responsibilities of Teachers for Students” (Personality development cell)	03/07/18	70	Dr. Yogendra Nath Shukla
Lectures on “Ek Bharat -Akhand Bharat” (Personality development cell)	05/09/18	50	Mr. Prajatantra Gangele
Patriotic song competition “Jara Yaad Karo Kurban” (Personality development cell)	14/08/18	22	HSC
Meetings with HR’s of various companies	13/09/18, 14/09/18, 15/09/18, 08/01/19, 09/01/19, 01/03/19,	250	Mr. Vijay Naidu, Mr. P. N. Mishra, Miss Jyoti More, Mr. Harish Kourav, Mr. Ajeet Singh Arora, Mr. Lakhan Patel, Mr. Rajendra Thakur, Miss Jasmeet Kaur
Yoga training camp	12/01/19	145	Department of Sports

5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2018-19	--	74	415	GATE-01, NET: 01, SLET- 02 (Microbio)	07(Microbio)
2018-19	--	--	--	NET: 01, SLET: 01(Zoology)	
2018-19	--	--	--	NET:02, FACT:02, UGC-JRF:01 (For. Sc.)	
2018-19	--	--	--	NET:02, GATE:06 (Geology)	
2018-19	--	--	--	NET:01 (Biochemistry)	
2018-19	--	--	--	NET:02 (Comp. Sc.)	
2018-19	--	--	--	Civil Service:01 (Seed & Hort.)	
2018-19	--	--	--	State Govt.	

				Services:06, Other:01 (Chemistry)	
2018-19	--	--	--	--	02(Geology)
2018-19	--	--	--	--	03(Pharma)
2018-19	Campus Placement in Various Companies	--	--	--	55
Total		74	415	30	67

5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
(Chemistry) 02	02	01-02

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus			Off Campus
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
Cipla Indore (online campus), Central Lab (offline) Indore	06	06 (Microbiology)	01 (Microbiology)
Tata Consultancy Services (online- campus) Sun Pharma, Pithampur (off campus), IPCA Laboratories, Pithampur	15	02 (Pharma. Chem.)	01 (Pharma. Chem.)
Geology & Geography	Nil	Nil	02
Vacament India Pvt. Ltd., Marketing Jorhal, Petro Chem, Divergent software labs Pvt. Ltd., Cipla Pharmaceutical, Baerlocher India Additive Pvt. Ltd., Telecom Pvt. Ltd.	205	55	
Total	236	63	04

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018-19	30	B.Sc.	Dept. of Microbiology	Govt. Holkar Science College, Indore	M.Sc.
	04	M.Sc.	Dept. of Microbiology	IIT Kanpur-02, IISER, Bhopal-01, RRCAT, Indore-01	Ph.D.
2018-19	01	B.Sc.	Dept. of Forensic Sc.	Gujarat Forensic Science University, Gandhi Nagar Gujarat	M.Sc.
2018-19	03	B.Sc.	Dept. of Forensic Sc.	Dr. Hari Singh Gour University, Sagar (M.P.)	M.Sc.

2018-19	01	B.Sc.	Dept. of Forensic Sc.	Govt. Institute of Forensic Science, Nagpur	M.Sc.
2018-19	02	B.Sc.	Dept. of Forensic Sc.	Delhi University	M.Sc.
2018-19	01	M.Sc.	Dept. of Forensic Sc.	IIT, Indore	Ph.D.
2018 -19	20	B.Sc.	Dept. of Zoology	Govt. Holkar Science College	M.Sc.
2018-19	19	B.Sc.	Dept. of Pharma Chem.	Govt. Holkar Science College	M.Sc.
2018-19	04	B.Sc.	Dept. of Comp. Sc.	Govt. Holkar Science College	M.Sc.
2018-19	06	B.Sc.	Dept. of Electronics		PG

5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET	01(Microbiology)	--
	01(Zoology)	1190102587
	02(Forensic Science)Vinita Satwani, Ruchi Sonowane	GJ04500767, MP0701500478
	02(Geology)	206453, UK0616200117
	01(Biochemistry)	304729
	02(Computer Science)	MP0701503133, MR22506226
Total	09	
SET	--	
SLET	02(Microbiology)	--
	01(Zoology)	15115251
Total	03	
GATE	01 (Microbiology)	XL19S23015112
	06(Geology)	GG19S42115314, GG19S42050546, GG19S48009328, GG19S48009289, GG19S48010001, GG19S43014482
Total	07	
GMAT	Nil	
CAT	Nil	
GRE	Nil	
TOFEL	Nil	
Civil Services	01(Horticulture & Seed tech.)	114365
State Government Services	06 (Chemistry)	--
Any Other	(FACT) -02(Forensic Science) Aayushi Dhariwal, Aayushi Bhawsar	10142, --
	01(Chemistry)	--

Total	03	
(UGC-JRF)	01(Forensic Science)	GJ04500767

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Participants
Basketball(W)	Division Level	150
Tennis(W)	Division Level	25
Volleyball(M)	District Level	145
Squash	Division Level	50
Teacher/employee sports	Division Level	180
Training camps were organized during the session for various games: Cricket, Football, Volleyball, Basketball, Kho-Kho, Kabaddi, Softball, Table-Tennis, Tennis, Waight Lifting, Badminton, Handball etc.	College level	500
Judo Karate training camp for girls in self defence	College level	150
Yoga training camp	College level	145
Gymnasium training camp	College level	130
Surya Namaskar on Vivekanand Jayanti	College Level	150
Various games activities on the occasion of annual function	College Level	1200

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
2018 -19	Runner-up Team	University	Kho-Kho			Team
2018 - 19	Third	National	Softball			Ku. Jyoti Mourya
2018 - 19	Third	National	Softball			Ku. Jaya Mourya
2018 - 19	Representation	University	Football			Ankit Sharma
2018 – 19	Representation	University	Judo			Ku Rimpi Prajapat
2018 – 19	Representation	University	Hockey			Ku Tejasvi Goud
2018 – 19	Representation	University	Football			Ku Shobha Yadav
2018 – 19	Representation	University	Handball			Ku. Akshansha Dixit
2018 – 19	Representation	University	Softball			Ku. Jaya Mourya
2018 – 19	Representation	University	Softball			Ku. Jyoti Mourya
2018 – 19	Representation	University	Chess			Ku. Anusha Agrawal
2018 – 19	Representation	University	Volleyball			Ku. Sana Khan
2018 – 19	Representation	University	Volleyball			Sumit Raghuwanshi
2018 – 19	Representation	University	Volleyball			Shubham Lotsway
2018 – 19	Representation	University	Boxing			Ku. Rashmi Kumari
2018-19	First + 50000	National (Jaipuriya Inst.)		Quiz		Harsh Prabha, Ankit waskel

2018-19		University		Debate		Aniruddha Chandravanshi
2018-19		University		Debate		Nikhil Neve
2018-19	Third	National (Akhil Bhartiya kukshi)		Debate		Utkarsh Mishra
2018-19	First	National (Abhyas Mandal)		Debate		Utkarsh Mishra
2018-19	First	District (IPS)		Debate		Utkarsh Mishra
2018-19	Second +30000	National (Jaipuriya Inst.)		Essay		Prashasti Tiwari, Muskan Sharma
2018-19	First	International (India Book Record)		Essay		Gajendra Sharma, Radhika Udawat
2018-19		University		Solo Song		Karan Suyrawanshi
2018-19		University		Tabla		Sourabh Gadwal
2018 -19	Second (Chem.)	National DAVV	Debate	Ms. Akshita Dubey

5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Every year student committee of meritorious students is constituted. This committee plays an important role in the smooth functioning of the various activities of the college like annual function, youth festival etc. The committee takes active part in the annual cultural festival held every year in the college. Students are also actively involved in various societies of the college like NCC, NSS, Cultural Society, Women's development cell, Placement cell and many others etc. Student also act as a member of board of studies of various departments. On merit basis PG associations are constituted in PG departments. These associations look after the academic activities, seminars of student and educational tours etc of the departments during the session.

5.3 Alumni Engagement *****

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):

Yes, The college has a registered alumni association (registration no. IND/539/91) from 08/08/91, Old Holkarian Association (OHA). At present OHA has following office bearers:

Dr. Narendra Dhakad	President
Dr. R.C. Dixit	Vice President
Dr. Sanjay Vyas	Secretary
Dr. Pradeep Sharma	Joint Secretary
Dr. Suwarna Tanvani	Treasurer
Dr. M M P Shrivastava	Executive Member
Dr. R. K. Nagar	Executive Member
Dr. Monika Jain	Executive Member

The Association helps in the development work of the college. During the alumni meeting feedback is collected on curriculum and college environment through a structured format. The alumni of this 125 year old institution have carved a niche in various fields like Bank, NGO, Medicine, IT sector, Film Industries, Literature, Research, Defence services, Journalism and mass communication, Judiciary services, Sports, Politics etc.

5.3.2 No. of registered Alumni:	330
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5.3.3 Alumni contribution during the year (in Rupees) :
Nil
.
5.3.4 Meetings/activities organized by Alumni Association :
01
.

CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT
6.1 Institutional Vision and Leadership
6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)
<p>Response: Holkar Science College, Indore is one of the most prestigious institution in central India. It is an autonomous institute since 1989. The College practices both decentralization and participative management at three levels i.e. at Academic level, Administrative level and by the Examination Department.</p> <p>Academic Activities: For academic activities, the departments are given sufficient autonomy. The principal appoints head of the departments under the decentralized policy. The HOD's along with the faculty members take various decisions for the smooth functioning of the department. The committees, various cells etc are formed by the administration that looks after the various schemes, admission process, finance, career counselling for the students etc. The entire college is involved and participates for the betterment of the institution.</p>

<p>Administrative Activities: At administrative level also, the college practices decentralization and participative management. The budget allotted by State Govt./UGC/ Janbhagidari Samiti is distributed to various departments according to their requirements. The heads of teaching departments are responsible for the utilizing the sanctioned amount as per state Govt. rules and instructions given by the administration and purchase committee. Further, beyond those levels, the financial decisions are taken at College administrative level by principal and the A/O. Permission for exceptional proposals is put up in Governing body meeting and in front of Janbhagidari Samiti for approval.</p> <p>Examination: The activities related to examination are controlled by the Examination Department headed by the controller and deputy controllers along with supportive office staff. Examination department makes the examination schedule. The college follows semester system at UG and PG levels. From the year 2017 college adopted annual system at UG level.</p>
<p>6.1.2 Does the institution have a Management Information System (MIS)? Yes/No/Partial:</p>
<p style="text-align: center;">Partial</p>
<p>6.2 Strategy Development and Deployment</p>
<p>6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):</p>
<p>❖ Curriculum Development:</p>
<p>College follows the syllabi designed by Central Board of Studies under the Department of Higher Education. The College has its own board of studies in each department. Departmental Board of Studies of the college approves the syllabi proposed by the Department of Higher Education. The College has the autonomy of 10% enhancement in the proposed syllabi at UG level for their respective courses for maintaining the standards of instruction. Framing of Guidelines for examination and valuation is conducted by the examination department. At PG level Credit based choice system has been implemented with open elective papers. This approach aims to empower learners to shape their education through choices. Each year the syllabi are revived/revised accordingly in the presence of the subject experts. It involves planning, identifying, modifying and evaluating the content according to the learner. The reviews are done on the basis of practical requirements and industry needs. The developed curriculum is adapted in relevance with Regional/National/Global development needs. The contents of the syllabus is oriented toward generating employability, entrepreneurship and skill development. The curriculum design teaches students how to look at a problem and formulate a solution. Considered an authentic form of learning because students are exposed to real-life issues, this model helps students develop skills that are transferable to the real world. Problem-centered curriculum design has been shown to increase the relevance of the curriculum and encourages creativity, innovation and collaboration in the classroom.</p>
<p>❖ Teaching and Learning</p>
<p><i>The college continuously improves its infrastructure and incorporates new technology, tools and aids, to improve the teaching and learning processes. Classrooms and all laboratories are equipped with projectors. Wi-Fi is available across the college campus. Browsing centre is available for students to access internet and it helps students to prepare their presentations. Teaching is supplemented with workshops, educational tours, laboratory visits, and field trips. For effective teaching and learning, teachers adapt techniques like - power point presentations, smart board, posters etc. Expert lectures, seminars and workshops were conducted in the college to enhance learning. To improve teaching different types of teaching methods have been adopted by teachers as: Telling method(Lecture method, storytelling method, discussion method etc), Activity method (Project method, problems solving method, etc.), Visual Method (Textbook method, demonstration method, etc.), Mental method (Inductive and deductive, analysis, synthesis method, etc), Lecture Method, Demonstration Method, Tutorial Method, Questions-Answer method, Discussion method, Project method, Analysis method, Field trip method, Observational method, Survey method etc. Remedial classes are organized for</i></p>

<i>slow- learners.</i>
<p>❖ Examination and Evaluation</p> <p>The rules and regulations concerning the evaluation process, distribution of marks of internal assessment are framed by the examination department. Each department maintains the record of syllabi covered every month and ensures that the tests, assignment, presentations etc are conducted. Moreover the departments ensure the Internal Assessment monitoring, record of attendance, sending the marks of assignments, tests and projects to examination department. For UG courses, 2 assignments are mandatory followed by one final exam in each semester. For PG students, 2 CCE Assignments and viva-voce are mandatory followed by one final exam in each semester. To maintain transparency in evaluation system, the students were given a privilege to view their answer books of CCE. The college follows semester system at UG and PG levels. From the year 2017 college adopted annual system at UG level. The CCE of the students is ensured through test, assignments, seminars etc. and there is a written examination at the end of the semester. In order to maintain confidentiality and academic standards it mandatory that at least 50% of the exam papers are set by the external setters. The college follows a centralized pattern of valuation at UG level and PG level valuation is done by the setter. Examination results are made available on college website; student can download the provisional mark list. The various steps are taken to evaluate of answer books- Mixing, coding, valuation, scrutiny, review, decoding, data-entry, results on website. Mandatory moderation of question paper before the commencement of examination. Provision to show valued answer sheets on the request of the students in the presence of the subject experts and guardian to satisfy the students by removing their doubts. Here students can challenge the valuation. Revaluation done by two examiners. Examiner for M.Sc. practical exams and for M.Phil. Viva voce are from outside the native university.</p>
<p>❖ Research and Development</p> <p>The college has a College Research Cell. This cell provides guidance to faculty about funding agencies promotes interdisciplinary research and monitors progress of research activities, motivates faculties to publish research papers in peer reviewed journals with high global impact factor for quality research, motivates to submit the Major/ Minor research projects to funding agency. Motivates faculties to attend seminars and workshops and presenting research papers. College has registered as research centre in six subjects. College has facilities for research work. Rresearch labs have emerged as specialized areas involve new research ideas and promote research culture. It encourages the students to undertake the research in the new fields. New high tech instruments like FTIR, IR etc. are available in labs. Every teaching departments of the college has been equipped with internet in order to facilitate research activities. Latest research journals are available in the departments and in the library. For e-journals and e-books del-net is installed in library. The college follows two types of research:</p> <ol style="list-style-type: none"> 1. Basic Research: This type of research system is followed at PG level on the basis of small project and assignments. 2. Applied Research: This type of research is mainly followed in PG and Post PG research where students focus mainly on more specific and directed objectives and investigations.
<p>❖ Library, ICT and Physical Infrastructure / Instrumentation</p> <p>The library is fully automated and has 63149 text books and 28890 reference books all bar coded, 07 books have been added in 2018-19, 3791 Journals, 350 CDs, 660 Thesis, 65121 digital database. 25 computers. Del-Net, INFLIBNET, e-journal facility is available in the library. Library is fully automated by SOUL 2.0 ILMS software. Some PG departments have separate departmental libraries e.g. Biochemistry, Microbiology, Pharmaceutical chemistry, Horticulture and Seed Tech. etc. Facility of LCD projector for effective audio-visual teaching learning, ICT technology is used as effective teaching tool, IT lab and instrumentation rooms available for students. 51 classrooms(02 new classrooms have been constructed during the session), 44 laboratory, 05 seminar halls, one auditorium (Yashwant hall), Indoor and Outdoor sports facilities, one boys Hostel is available in the</p>

<i>college. New constructions are also in progress.</i>
<p>❖ Human Resource Management</p> <p><i>The college has a well-defined administrative set up for the smooth functioning of the institution. While the Principal as the head of the institution remains at the helm of all the academic and administrative affairs in the college, the administrative officer serving as a link between the principal and the other staff members facilitates day to day administration of the institution. Every teaching department is headed by a senior professor entrusted with the administrative and academic responsibilities of that particular department. The recruitment of the permanent employees is done by the Department of Higher Education Govt. of M.P.. The salary and other benefits related to finance, leaves, health etc. are regulated and implemented as per the rules laid down by the department of higher education. The recruitment of the temporary employees is done by the college authorities as per the rules laid down by the department of higher education. Confidential performance appraisals are regularly filled, Personal files well maintained. The college has computerized account keeping and administrative system. Pay slips and PF statements of employees are transmitted electronically. Grievance redressal cell is active to resolve the grievances of the employees and students.</i></p>
<p>❖ Industry Interaction / Collaboration</p> <p><i>Educational Trips to Industries are organised by department of Microbiology and department of Pharmaceutical Chemistry for M.Sc. students to help them understand the working of various Industries and Laboratories with regard to their subjects in syllabus and with respect to various job opportunities. Students are prepared for interviews by arranging lectures of various eminent personalities working in various sectors. They make students aware about the scope and environment of the companies. Department of pharmaceutical chemistry has collaborated with PG Tech research institute (PGTRI) and certificate courses are organized yearly with collaboration with this institute during the session. During the session 2018 - 19 department of Biochemistry signed MOU with Noble Alchem Pvt. Ltd. (Agribooster), Sanwer Road, Indore, M.P., Tuteja's Forensic Examination and Research Centre, Indore. During the session 2018-19, department of Biotechnology and Bioinformatics has visited Aasha confectionary Indore. Collaborative support for internship and field training from different government, public sector and private organization such as GSI, ONGC, MOIL, HCL, Rajami Geo-Exploration and SS enterprises. Placement Cell of College provides the students with exposure to resume writing, soft skill training and employment opportunities. Companies are invited to conduct interviews, offer internships and hold talks and discussions. Linkages and Collaborations: National institutes – Institute of Excellence in Higher Education (IEHE), Bhopal (M.P.), Dr.H.S.Gour University, Sagar, PG Tech. Inst., ONGC, Directorate of Geology and mines, Manganese ore India Ltd., Hindustan Copper Ltd., DAVV Indore, RR CAT Indore, NRCS Indore, IUC Indore, MGMMC Indore, Parental Drug India Ltd. Indore, Disha Fertility Centre Indore, NFI Ltd. Dewas, IVRI Bareilly (UP), IAHVBP Mhow, CHL-Apollo Hospital Indore, Plethico Lab. Indore, Chouksey Lab. Indore, SahkariDugdhSanghMaryadit Indore etc. Agriculture College Indore, BioRe Association Kasrawad, JNU New Delhi, MPUAST Udaipur. International institutes - Research Institute of Organic Agriculture, Switzerland.</i></p>
<p>❖ Admission of Students</p> <p><i>The admission process is highly transparent. Rules and regulations of the Department of Higher Education Govt. of M.P. are strictly Followed. Admissions are purely merit based. At UG and PG level candidates are required to apply on-line through admission portal of Higher Education Department along with choice of colleges/Programmes/courses. After that on the merit basis as per the allotment the students can seek the admission in the college. For vacant seats, at the end of merit round, admissions are open for all and filled by college level counselling on merit basis from the present candidates. Entrance test followed by interview is mandatory for admission to M.Phil. Courses. The faculty and office staff of the college is involved in administration, verification and admission process.</i></p>
6.2.2 : Implementation of e-governance in areas of operations:

❖ Planning and Development				
<p>The college has its own website. Each and every information are uploaded on the website from time to time. The departmental profile is available on the website where all the activities conducted by the departments, syllabus, scheme of marks etc are uploaded. Students profile has also been created on the website. A student can download his/her result, exam forms etc from it. Admission and examination fee are collected through online/SBI collect portal is used for this purpose. Scholarships of different schemes are also online through portal of respective schemes. Students can submit their examination form, renewal of admission in next semester/year is online. The examination results are uploaded on the website. Students can see their results and download his/her provisional mark sheet from the website by proper login ID. Link of different schemes are available on the website of the college www.collegeholkar.org.</p>				
❖ Administration				
<p>The college has a well-defined administrative set up for the smooth functioning of the institution. While the Principal is as the head of the institution remains at the helm of all the academic and administrative affairs in the college, the administrative officer serving as a link between the principal and the other staff members facilitates day to day administration of the institution. Every teaching department is headed by a senior professor entrusted with the administrative and academic responsibilities of that particular department. There are formed various committees comprising senior and experienced members of the staff for a number of activities taking place on the campus through the year. All information's and communication between AO and various departments are made through e-mail of each department/ through college website. Student's data are maintained online. Each student can view his/her academic data throughout the year. Service record of teaching and non-teaching staff is maintained by Higher education department online through e-service-book, updated every year by college administration using their login ID and password. Employee can view his/her profile online any time anywhere and can get benefit accordingly.</p>				
❖ Finance and Accounts				
<p>The students deposit their fee online through SBI collect portal managed by college. College is using Tally ERP 9.0 for maintaining the books of accounts and Payroll software for salary dispersal of guest/temporary faculties and employees appointed by JBS. The statutory dues of students and faculties are paid online on time. The salary of regular employees are maintained by IFMIS system.</p>				
❖ Student Admission and Support				
<p>The admission process is highly transparent. Rules and regulations of the Department of Higher Education Govt. of M.P. are strictly followed. Admissions are purely merit based. At UG and PG level candidates are required to apply on line through admission portal of Higher Education Department along with choice of colleges/Programmes/courses. After that on the merit bases as per the allotment the student can seek the admission in the college. All the information of the students admitted to the college is available on Higher Education department/College website.</p>				
❖ Examination				
<p>The activities related to examination are controlled by the Examination Department. This department makes the examination schedule. The college follows semester system at UG and PG levels. From the year 2017 college adopted annual system at UG level. Examination forms are filled online and admit cards are generated online. CCE marks and examination results are made available on college website; students can view their results online and can download the provisional mark list. Students can submit their exam form, deposit fee through SBI collect, download their admit cards etc online.</p>				
6.3 Faculty Empowerment Strategies				
6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year				
Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is	Amount of support

			provided		
Nil	Nil	Nil	Nil	Nil	
6.3.2 Number of professional development / administrative training programmes organized by the Colleges for teaching and non-teaching staff during the year					
Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
2019	Basics Of Computers	--	25/04-13/05/19	15	05
2019	Workshop on: Application of Biochemical Techniques in Bio Sciences	--	25/02-03/03/19	05	25
6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year					
Title of the professional development programme		Number of teachers who attended		Date and Duration (from – to)	
Faculty Development Program(Shri Vashnav Vidhyapeeth, Viswavidhyalaya)		03, V.R.Choure, Ankesh Ahirwar, Ayushi Dhariwal		02-03/10/18	
Faculty Development programme (Climate Change) EPCO Bhopal		01 Vipul Kirti Sharma		18-19/02/19	
Faculty Development programme (CEDMEP, Bhopal)		01 Sheetal Malviya		01-13/02/19	
FDP: TEQIP-III: GIS mapping for smart development: Acropolis Inst. Indore		01 S. Choure		13-17/02/19	
DST Sponsored summer School: Geospatial Technologies: CEPT Univ. Gujrat		01 S. Choure		31/05-01/06/19	
Orientation Programme, DAVV, Indore		01 Vinod Rathore		11-28/03/19	
Yog Prashikshak Pathykram Short Term Course (Kavalyadham, YPK, Bhopal		04,V.R.Choure, Preeti Chaturvedi, Seemawati Sisidiya, Sweta Hardiya		08- 28/02/19	
Short term Course		01 Seemavati Sisodiya		29/07-03/08/19	
Short term course LINEAR Algebra & Analysis (Mathematics)		01		12- 18/10/18	
Short Term Course on Entrepreneurship(HRDC)Indore		01 Kiran Sitole		07/18 One Week	
Refresher Course:Environment & Desaster Management(IDC) HSGour Univ. Sagar		01 Pushpa Makwane		03-23/01/19	
5 th refresher Course in Mathematics &Statistics (Mathematics)		01 Naresh Patel		27/07-16/08/18	
Refresher course (HRDC, D.U. New Delhi) (Zoology)		01		17/07- 06/08/18	
Refresher course (HRDC, DAVV Indore) (Zoology)		01		05- 25/09/18	

Refresher Course HRDC Sagar	01 Kiran Sitole	Sept. – Oct. 18 Two weeks
Cert. Course (Gas Chromatographic) Excellent Bioresearch Ltd. Jabalpur	01 Deepti Khare	06-09/06/19
MOOCS, E-Content Development and Open Educational Resources(Computer Science)	04	11- 16/03/19
OTA Kamtee REF/SD/Part II/130	01 Manoj Mishra	01- 30/03/19
Certificate Course: Yoga: DAVV Indore	01 Dharmendra Jat	01/05-15/06/19
Total	27	--

6.3.4 Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime
NA	NA	NA	NA

6.3.5 Welfare schemes for

Teaching	<p>Health services: The college has PHC in its premises. Health camps are organized for teaching staff. The college organizes awareness Programmes on AIDS, drugs etc. Various awareness programmes were organized during the session: Health Check up camp on 29-30/10/18, Eye Test camp on 15/10/18, AIDS awareness pledge on 02/12/18 Blood donation camp on 21/02/19.</p> <p>Medical Reimbursements: As per the guidelines of state Govt. medical reimbursements are given to teachers. Group Insurance Scheme is available for all teachers. Reservation scheme in admission of wards in the college of teachers is available.</p> <p>Leaves: As per the rules laid down by the state government various types of leaves like - casual leave, optional leave, earned leave, medical leave are available for all teachers.</p> <p>TWF: 4% Teachers welfare fund is collected and made available by the college as per the necessity of teachers.</p> <p>Academic Facilities: Computer facility with internet is available in library and for all teachers and employees.</p> <p>Staff Quarters: The college provides four residential houses for teaching faculties in the college campus.</p>
Non-teaching	<p>Health services: The college has PHC in its premises. Health camps organized for teaching staff. The college organize awareness Programmes AIDS, drugs etc. Various awareness programmes are organized during the session: Health Check up camp on 29-30/10/18, Eye Test camp on 15/10/18, AIDS awareness pledge on 02/12/18 Blood donation camp on 21/02/19.</p> <p>Medical Reimbursements: As per the guidelines of state Govt. medical reimbursements are given to employees. Group Insurance Scheme available to all employees. Reservation scheme in admission of wards of employees those who are working in higher education department is available.</p> <p>Leaves: As per the rules laid down by state government various type of leave facilities like casual leaves, optional leaves, earn leaves, medical leaves are available to all employees.</p> <p>Academic Facilities: Computer facility with internet is available in library and for all employees.</p> <p>Staff Quarters: The college provides Twelve residential quarters available for non</p>

	teaching staff in the college campus			
Students	<p>Health services: The college has PHC in its premises. Students can seek health facility and counselling free of cost. Health camp, AIDS and other disease awareness programmes, awareness from drugs programmes etc are organized for the students in the college time to time. Various awareness programmes are organized during the session: Health Check up camp on 29-30/10/18, Eye Test camp on 15/10/18, AIDS awareness pledge on 02/12/18 Blood donation camp on 21/02/19.</p> <p>Teaching and Learning supports: Department of higher education provides smart phones to students while the college provides free Wi-Fi facility to the students so that they are able to incorporate the use of technology while learning. Swami Vivekanand Career Guidance cell, Personality development cell in the college provide counselling regarding the career option. Placement cell invites various companies for campus placement. Remedial classes for slow learners, career counselling, spoken English classes, communication skill programmes are organized from time to time for students. Under book bank scheme of higher education department reading materials (text books) and stationary is provided free of cost to SC/ST students. College provides the counselling facility to students free of cost for their personal and academic problems.</p> <p>Free ship and Scholarship: The college provides half free ship for poor students/ students who have lost their earning parents. The college assists the students in getting bus and railway travel concession passes. Student of the year award is given from each stream to encourage students who excel in academics as well as extra/ co curricular activities. For differently abled students college makes every possible effort to make the campus disabled friendly for persons with disability and ensures that every required infrastructural facility is provided. The college assists the students to life Insurance policy at nominal premium. Kits, uniforms and refreshment are provided to NCC, NSS volunteers. Various scholarships: SC, ST, OBC, Gaonkibeti, Pratibha Kiran, Vikrmaditya, Inspired and Minority scholarships etc are available for students.</p> <p>Hostel facility: College has a 100 setter boy's hostel in the campus.</p>			
6.4 Financial Management and Resource Mobilization				
6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)				
College conducts internal financial audit. For this various committees are made for smooth functioning of financial activities. Moreover for the internal financial audit the college hire the service of CA, they do the complete financial audit every year. This is a state government college so that the external audit is done by the state government auditors and also by AG MP.				
6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)				
Name of the non-government funding agencies/ individuals		Funds/ Grants received in Rs.	Purpose	
Chemistry: MPCST, Bhopal		45000/-	Dr. Deshpande Award Programme	
Mr. Rakesh Dwivedi (GAS Agency)		4000		
SBI, Indore		Sponsored KIT for the seminar		
6.4.2 Total corpus fund generated:				
1121816				
6.5 Internal Quality Assurance System				
6.5.1 Whether Academic and Administrative Audit (AAA) has been done?				
Audit Type		External		Internal
	Yes/No	Agency		Yes/No Authority
Academic	Nil	Nil		Nil Nil

Administrative	Nil	Nil	Nil	Nil
6.5.2 Activities and support from the Parent – Teacher Association (at least three)				
The College does not have a formal Parent Teacher Association. However, the college ensures a healthy interaction with the parents. Parents-Teachers Meetings (PTM) are organized by various departments at departmental level in the beginning of each semester. In these meetings in addition to the resolution of individual problems of the students, issues like improvement in the institution, educational system, students benefit policies etc. are discussed. Parents are also apprised of their ward's progress in the institution. Parents give suggestions and feedbacks in these meetings. The college takes due action on the valuable suggestions provided by the parents.				
6.5.3 Development programmes for support staff (at least three)				
The college encourages and support the staff to attend workshops and training programs conducted by competent authority outside the College like workshop on lab skill training for the laboratory staff of Chemical and Life Sciences, Accounting and office working training to office staff etc.				
6.5.4 Post Accreditation initiative(s) (mention at least three)				
Water Harvesting System: For ground water recharging water harvesting system is installed on the roof of all the buildings of the college.				
Solar Power Panels: For the production of green energy and energy conservation solar power plant setup on the rooftop of the College buildings is being proposed.				
Infrastructure: College infrastructure, labs has been improved.				
6.5.5				
a. Submission of Data for AISHE portal: (Yes /No): Yes				
b. Participation in NIRF: (Yes /No): Yes				
c. ISO Certification: (Yes /No): No				
d. NBA or any other quality audit: (Yes /No): No				
6.5.6 Number of Quality Initiatives undertaken during the year				
Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from--to--)	Number of participants
2018	Workshop on: Mobile Repairing and DTH Installation & TV Repairing	(Dept. of Electr. & Carrier Guidance Cell) (Mr. Tarkeshwar Vyas)	04-25/09/2018	30
2018	Hands on Training programme on: "Tissue Culturing of Medical Plants and Organic Farming"	(Dept. of Seed & Hort. & Carrier Guidance Cell) (Dr. Paridhi Jain)	17- 29/09/2018	15
2018	Training Programme on: Computer Hardware & Networking"	(Dr. Sanjay Vyas & Expert Team)	07- 27/09/2018	30
2019	Workshop on: "Applications of Bio Chemical Techniques in Bio Sciences"	Dept. of Zoology & Biochemistry	25/02 – 03/03/2019	186
2019	Internship Prog.: on Chem-Informatics and Biophysical Techniques	(Dept. of Chemistry + Bio. Tech. & Bio. Info.)	01- 12/02/2019	100
2018	Basic Computer (Hardware, Software, & Internet)	(Dept. of Computer Science & Carrier Guidance Cell)	07- 29/09/2018	15
2019	International Conference on "New	Dept. of Mathematics	29-30/03/2019	45

	Fangled Methods of Physical Chemistry and Mathematics”			
2018	National Seminar on “Recent Trends in Basic Sciences, RTBS-2018”	Department of Chemistry	03- 04/10/2018	65
2018	Prof. Dinesh Varshney memorial National conference on “Physics and Chemistry of Materials (NCPCM-2018)	Dept. of Physics HSC & School of Physics DAVV	27-28/12/2018	55

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**7.1 - Institutional Values and Social Responsibilities**

7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period (from-to)	Participants	
		Female	Male
Self Defence: Judo Karate Camp (Sports)	12/10/18	150	--
Lecture on: Swarojgar, Development of Women & Children's (Carrier Guidance Cell)	13/08/18	40	05
Lecture by IG Police on "Safety & Security"	08/03/19	65	25

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:
Percentage of power requirement of the College met by the renewable energy sources

A number of measures have been initiated to make the Campus eco-friendly. College has made green policy to conserve the electricity, large size windows in the classrooms and laboratories have been made for good ventilation. Labs are mostly installed with CFL bulbs. In future for production of green energy and energy conservation solar power plant will be setup on the rooftop of the College building, with the expectations that more than two third of power requirements of the college will be met by solar power plant. To maintain a clean environment, the college maintains a vehicle free campus. Garden Committee of the College is instrumental in bringing about major environmental consciousness among students in the college and preserving a green campus. For production of green energy and energy conservation solar power plant setup is being proposed.

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	02
Provision for lift	No	Nil
Ramp/ Rails	Yes	01
Braille Software/facilities	No	Nil
Rest Rooms	Yes	02
Scribes for examination	Yes	01
Special skill development for differently abled students	Nil	Nil
Any other similar facility	Nil	Nil

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
2018-19		01	05/04/19 Pharma. Chem.	Jyoti Niwas old age Home visit	Precautions and awareness regarding arthritis	35 + 4
2018 - 19	--	01	21/02/19	Blood donation camp(NSS)	To create awareness in the	50 + 05

					society about Blood Donation	
2018-19	--	02	27/07/18, 29/09/18	Poster comp. And Nukkad Natak: Swachhata,	To address awareness about cleanliness	110+09
2018-19	--	01	05-11/02/19	Road Safety week	Awareness about Road Safety	35+02
2018 - 19	01	--	Continuous process	Scenic Beauty	Maintenance of natural geography	05 + students
2018 - 19	01	--	Continuous process	Pollution free environment	Maintenance Green area and once a week the staff member and student use bicycle to come the college	05 + students
2018 - 19	01	--	Continuous process	Facilitate to students for city bus concessional pass	College situated in the city and is properly connected with BRTS roads	students
2018 - 19	01	--	Continuous process	Facilities of hostels	Various private hostels and governments post metric hostels are at the walking distance from the College	students
2018 - 19	01	--	Continuous process	Academic environment	University campus is at the walking distance from the college, students can avail the facility of university central library	students
2018 - 19	01	--	Continuous process	Environment of competitive exams	Many private coaching inst. for competitive examinations like: civil services, banking services, CET etc. Are at the walking distance from the college	students
2018 - 19	01	--	Continuous process	PHE available in campus	Students seek consultancy about their health regularly	Students

7.1.5 Human Values and Professional Ethics		
Code of conduct (handbooks) for various stakeholders		
Title	Date of Publication	Follow up (maximum 100 words each)
Code of conduct	18/07/2018	<i>The college functions under the Dept. of Higher Education, Govt. of M.P.. The code of conduct for various stake holders is regulated by the state government. The state government follows all the rules and regulations given by UGC. The appointment of teachers and other staff is based on the rules laid down by UGC. The college adopts all the measures published in the Gazette of India to maintain the standards in Higher Education. Besides this the college has developed five policies: Green Policy, Research Policy, IT Policy, Women empowerment policy, Values & professional policy.</i>
7.1.6 Activities conducted for promotion of universal Values and Ethics		
Activity	Duration (from-----to-----)	Number of participants
Study of Air microflora of Indore City (Microbiology)	Dec. 2018	20
Visit Ture Tirupati Nursery, Barwah MP (Seed & Hort.)	19/01/2018	61
Old age home visit: Jyoti Niwas, (Pharma Chem.)	05/04/19	40
Tree plantation Programme(Red cross, Health care soldiers, NSS, Dept. of Biochem. & Pharma.)	29/07/18, 30/07/18,02/08/18,09/08/18	154
Komi Ekta Week(Red Cross)	19-25/11/18	35
Voter Awareness Programmes: Marathon(Vote Indore Vote), Cycle Rally for Vote (Red cross, NSS & Amulya club)	24/10/18, 26/11/18	335
Population Rally(NSS)	17/07/18	59
Cleanliness awareness programmes: Poster Making comp. On “Swacchhata hi seva” & “Swacchhata Rally: Nukkad Natak” (NSS)	27/07/18, 29/09/18	119
Road Safety week: Poster, Essay, Debate, Nukkad Natak etc(NSS)	05-11/02/19	37
Blood donation camp(NSS)	21/02/19	55
7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)		
<p>To reduce pollution and create a eco-friendly campus College is working in various ways.</p> <p>Energy conservation: Large size windows in the classrooms for good ventilation, labs are mostly installed with CFL bulbs to minimize the expense of electricity.</p> <p>Water harvesting: Water recharging pits have been constructed at many places in the campus. The college has installed rainwater harvesting water recharge techniques on the roofs of college</p>		

buildings.

Efforts for Carbon Neutrality: There is no major carbon release, AC facilities are available at the Principal's office, Yashwant Hall, Conference hall and the Examination Department.

Plantation: To make the campus green and eco friendly plantation is done throughout the campus. NSS volunteers and gardeners take care of the plants regularly. With this objective, the college has several well maintained gardens with plants of medicinal values. One sided printed paper and remaining practical file pages are reused.

Free vehicle campus: College has a free vehicle campus. A separate parking area behind the college near the sports ground is maintained by the college. The college staff and students come to the college by bicycle once in a week.

Disposal of Microbial culture: Microbial culture is always autoclaved after use for disposal. The college discourages the use of plastic material.

Others: Reuse of one sided printed paper and remaining practical file pages. Microbiological analysis of drinking water from various sources on campus. Reduce the use of plastic material. Online practices are promoted to reduce paper work to save greenery. Use separate dustbins for degradable and non-degradable matters.

7.2 Best Practices

Describe at least two institutional best practices. Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

(Annexure VII)

The college has been constantly following a number of best practices like: **"Butterfly Park"**, **"English Language Laboratory"**, **"Cleanliness Drive in the Campus"**, **"E-News letter& E-Magazine"**, **"Microbial Analysis of Water"** etc. Apart from these ongoing practices the college has taken up a number of other best practices like: **Old age home visit, Reuse of papers, Medicinal Park and National Awards in Chemistry etc.**

Title of the Practice : **"Microbial analysis of Water samples from different locations on GHSC campus"**

Aim and Objectives :

A. Aim: To provide facility of safe and healthy drinking water in college campus.

B. Objectives: The main objective behind this project is to provide facility of safe and healthy drinking water. This study will help in following ways:

Identifying existing problems

Ensuring whether water is suitable for the intended use, especially if used for drinking purpose

Tracking changes over time

Determining the effectiveness of a treatment system

The quality of a water source may change over time, even suddenly. Changes can go unnoticed as the water may look, smell, and taste the same.

The Context: The college has drafted its research policy to ensure a safe and healthy environment for everyone who visits the campus for various reasons. One of the best practices initiated for the betterment of facilities provided by the college is to check the water quality on campus to provide safe drinking water on campus for all. The Department of Microbiology has undertaken the project for water analysis. Dr Sanjay Vyas, Head and faculty members Dr. Deepti Khare, Prof. Anuja Sharma, Dr. Radhika Waghmare along with research scholar Neha Sharma, M.Sc. final students and staff will be working on this project. Standard Drinking Water Checks will be performed quarterly every year from various departments and drinking points on campus regardless of the water source. Water used by public municipalities and private homeowners must be tested regularly in order to keep the source of water safe and free from environmental risks and potential health disorders. When

the water is tested it offers the knowledge; required to address the problem that is currently involved with the water quality. It will also ensure that the water quality is protected from every potential cause of contamination and an appropriate approach is involved with the treatment system.

The Practice: Water testing is carried out to meet the regulatory requirements and adhere to the safety procedures that are needed for pollutant-free water.

Sampling of different water sources- tube well and R.O drinking water units on campus

Coliform bacteria- Indicate the presence of microorganisms in the water that are potentially harmful to human health.

Total dissolved solids- Represent the amount of inorganic substances (i.e. sodium, chloride, sulphate) that are dissolved in the water. High total dissolved solids (TDS) can reduce the palatability of water.

Evidence of Success: A total of 15 drinking water samples collected from various water sources on campus were analyzed every three months since the year 2016- till date in the Department of Microbiology. It was observed that out of 15 samples, 07 samples shown contamination by Coliforms in the session 2016-17. Out of 15 Samples 05 samples shown contamination by Coliforms in the session 2017-18. In the session out of 15 samples 03 samples shown contamination by Coliforms.

S.N.	YEAR	TOTAL NO. OF SAMPLES	CONTAMINATED SAMPLE NO.	TOTAL CONTAMINATED SAMPLES
1	2016-2017	15	03,04,05,06,07,08,10	07
2	2017-2018	15	03,04,05,07,10	05
3	2018-2019	15	03,04,05	03

Problems Encountered and Resources Required: The M.Sc. Students collected the samples from different water sources on campus and performed MPN for detecting the coliform using resources available in the department lab.

Title of the practice : **Working of the Examination Department**

OBJECTIVE: The aim of the Exam Department is to conduct the exams on time and declare the result at the earliest for the benefit of the students. The whole process is fair, impartial and transparent. The exam department aims at making the system smooth and hassle free for all. The department works with the objective of maintaining confidentiality, honesty and integrity of the entire procedure and to live up to the reputation of the institution To make innovations and thereby improve and upgrade the system according to the need of the hour.

Context: Holkar Science College is one of the oldest and the most prestigious institute in central India. It abides by the rules & regulations laid down by the Department of Higher Education Govt. of M.P. The number of students in the college is nearly 5000 and there are a variety of combinations at UG and PG levels. The exam department has to coordinate with all the departments regarding CCES, practical, seminars, internship etc. The department has to be watchful about on time conduction of exams, evaluation of the copies, declaration of the result etc.

Practice: There are five programs running successfully in the college namely B.Sc, BCA, M.Sc, M.Phil, Ph.D. The Exam Department functions round the year to maintain the annual time table declared by the Dept. of Higher Education. Some of the practices carried out by the department are:

- Central valuation of UG A/B's with the MOI by the setter.
- Valuation of PG A/B's by the paper setter
- Spot moderation (On the day of Examination)
- MOI prepared by the paper setter
- Showing valued A/B's to the students in front of parent's Subject expert and HOD of the subject concerned
- Revaluation of A/B's

- Displaying the answer books of the Toppers
- Coding of A/B's
- Micro scrutiny of A/B 's by subject expert
- Computerized Tabulation
- In house printing of non confidential material
- Hologram sticking on Mark sheet
- Merit Certificate to Toppers
- Revaluation in main & ATKT Exam
- M. Phil admission through Entrance Test followed by interview
- UG, PG admission through online system
- Exam fees deposition Online
- Special exam for those student who have represented in National/ state level activities of NCC/NSS etc.
- Preparation of transcripts for students going abroad for further studies.
- Exam form can be downloaded from the college website.
- Student's profile on college website with two layered security is available. A student can view his/her result, download exam forms, revaluation form, copy showing form etc.
- The profile of all the department is available on the website. It includes the details of the faculty members, syllabus of the programmes and all the courses/ papers, details of workshops, seminars, conferences etc.

7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust. Provide the web link of the institution in not more than 500 words. (Annexure VIII)

“Microbial analysis of Water samples from different locations on GHSC campus”
 To provide facility of safe and healthy drinking water in college campus. Through this project we can ensure that: to identifying existing problems, to ensure whether water is suitable for the intended use - especially if used for drinking purpose, to determining the effectiveness of a treatment system.
 The college has drafted its research policy to ensure a safe and healthy environment for everyone who visits the campus for various reasons. Under this college has done this activity to provide the facilities of drinking water in the college campus. The Department of Microbiology has undertaken this project for water analysis. Dr Sanjay Vyas, Head and faculty members Dr. Deepti Khare, Prof. Anuja Sharma, Dr. Radhika Waghmare along with research scholar Neha Sharma, M.Sc. final students and staff will be working on this project. Standard Drinking Water Checks will be performed quarterly every year from various departments and drinking points on campus regardless of the water source. Water used by public municipalities and private homeowners must be tested regularly in order to keep the source of water safe and free from environmental risks and potential health disorders. When the water is tested it offers the knowledge; required to address the problem that is currently involved with the water quality. It will also ensure that the water quality is protected from every potential cause of contamination and an appropriate approach is involved with the treatment system.
 Water testing is carried out to meet the regulatory requirements and adhere to the safety procedures that are needed for pollutant-free water. Sampling of different water sources on campus.
Total dissolved solids- Represent the amount of inorganic substances (i.e. sodium, chloride, sulphate) that are dissolved in the water. High total dissolved solids (TDS) can reduce the palatability of water. A total of 15 drinking water samples collected from various water sources on campus were analyzed every three months since the year 2016- till date in the Department of Microbiology. It was observed that out of 15 samples, 07 samples shown contamination by Coliforms in the session 2016-17. Out of 15 Samples 05 samples shown contamination by Coliforms in the session 2017-18. In the session out of 15 samples 03 samples shown contamination by Coliforms.

S.N.	YEAR	TOTAL NO.	CONTAMINATED	TOTAL
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			OF SAMPLES	SAMPLE NO.	CONTAMINATED SAMPLES	
	1	2016-2017	15	03,04,05,06,07,08,10	07	
	2	2017-2018	15	03,04,05,07,10	05	
	3	2018-2019	15	03,04,05	03	

8. Future Plans of action for next academic year (500 words)

The College and the IQAC has formed a plan to improve the academic and administrative performance of the institution to provide quality education and to develop a learner – centric environment. It is proposed that

- *More classrooms and laboratories are required.*
- *More classrooms should be converted into smart classrooms.*
- *To introduce CBCS system at UG level. As we have adopted CBCS system at PG level.*
- *To modernize labs with recent apparatus and establish separate labs for UG and PG for research in each department.*
- *To construct a fish farm in the Fisheries Department.*
- *To establish a Bio. Tech. Park in college campus.*
- *To establish waste management and manure unit.*
- *To establish solar panel plant for green energy.*
- *To establish separate computer labs and seminar halls in each department.*
- *To establish server client architecture in computer lab and an internet gallery in the college.*
- *New skill oriented and academic programmes should be started that would generate employment for the students.*
- *A well equipped modern research wing should be developed in each department for the research scholars and faculty members actively involved in research pursuits.*
- *To construct an auditorium and expand the cultural centre of the college to promote rich cultural heritage of our country.*
- *To expand the library with cubical and reading rooms.*
- *To construct a separate unit for central valuation.*
- *New canteen and gym should be established.*
- *To cover the front of the office buildings, Yashwant Hall, fronts of the buildings of various departments and the back of the office area Tin Sheds should be installed.*

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