

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

*AQAR of Academic Year*  
*(July 1, 2017 to June 30, 2018)*

**Part – A**

<b><u>Data of the Institution</u></b>		
<b>1.</b>	Name of the Institution	<b>Govt. Holkar (Model, Autonomous) Science College, Indore</b>
•	Name of the Head of the institution	Dr. Roop Lekha Vyas
•	Designation	Principal
•	Does the institution function from own campus	Yes
•	Phone no./Alternate phone no.	0731-2446806 / 0731-2464074
•	Mobile no.	9425903517
•	Registered Email	<a href="mailto:principalhsc@rediffmail.com">principalhsc@rediffmail.com</a>
•	Alternate Email	--
•	Address	AB Road, Bhanwarkua
•	City/Town	Indore
•	State/UT	M. P.
•	Pin Code	452001
<b>2.</b>	<b><u>Institutional status</u></b>	
•	Autonomous Status ( <i>provide the date of Conformation of Autonomous Status</i> )	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	<a href="mailto:IQAC_hsc@rediffmail.com">IQAC_hsc@rediffmail.com</a>
•	Alternate Email address	<a href="mailto:raj_rma@yahoo.co.in">raj_rma@yahoo.co.in</a>
<b>3</b>	Website address	<a href="http://www.collegeholkar.org">http://www.collegeholkar.org</a>
•	Web-link of the AQAR	<a href="http://www.collegeholkar.org/AQAR2017-18.doc">http://www.collegeholkar.org/AQAR2017-18.doc</a>
<b>4</b>	Whether Academic Calendar prepared during the year?	<b>Yes</b>
•	If yes, whether it is uploaded in the Institutional website	<a href="https://collegeholkar.org/pdfs/Academic%20Calender%202017-18%20.pdf.pdf">https://collegeholkar.org/pdfs/Academic%20Calender%202017-18%20.pdf.pdf</a>
•	Web link	<a href="http://www.collegeholkar.org">http://www.collegeholkar.org</a>

5.	Accreditation Details				
Cycle	Grade	CGPA	Year of Accreditation	Validity Period	
1 <sup>st</sup>	***	00	2001	from:05.11.2001 to: 04.11.2006	
2 <sup>nd</sup>	B	2.75	2009	from:30.09.2009 to: 29.09.2014	
3 <sup>rd</sup>	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		24/07/17		11	
Regular meeting of IQAC		18/06/18		12	
College Participated in AISHE		05/03/2018		00	
Feedback from all stakeholders collected, analysed and used for improvements		Collected and analyse and used for improvement at various department level		--	
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		Autonomy	UGC	09/07/89 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)				
❖	One programme on “Conservation of Environment and Wild life” (16/02/18), One programme on “Applications of Free and Open source software for Geospatial” (04/01/18) were organized during the session through different departments of the college.				
❖	Approx. 149 faculties participated in various seminars/workshops, Approx. 55 papers were presented by the faculty members in various seminars, 15 candidates awarded Ph.D. degree under the guidance of faculty members, 01 major and 02 minor projects are ongoing. About 69 research papers are published by the faculty member in various peer-				

	reviewed journals/proceedings during the session.
❖	One training programme on “Organic Farming & Mushroom Cultivation” (09-21 /09 /17, was organized by Seed Technology & Horticulture Department.
❖	Various entrepreneurship development programmes and skill oriented programmes were organized during the session.
❖	Four companies visited for campus placement and 54 students were placed in campus placement, while 08 students were placed off campus. 42 students cleared NET/SLET/GMAT/UGC JRF/State Govt. Exams and others exams during the session.
<b>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</b>	
<b>Plan of Action</b>	<b>Achievements/Outcomes</b>
<p>Academic programmes proposed:</p> <ul style="list-style-type: none"> <li>(i) To start B.Sc.-B.Ed., MBA, M.Phil. in Physics, Mathematics, M.Sc. in Genetics.</li> <li>(ii) To organize academic tours.</li> <li>(iii) To organize Lectures /seminars /workshop/symposium.</li> <li>(iv) To start new certificate courses.</li> <li>(v) To start New award if any.</li> <li>(vi) To motivate faculties for publication work.</li> </ul>	<p>Academic programmes implemented:</p> <ul style="list-style-type: none"> <li>(i) One Training programme and two others programmes were organized during the session through different departments of the college.</li> <li>(ii) Approx. 149 faculty members participated in various seminars/workshops.</li> <li>(iii) Approx. 55 papers were presented by the faculties in various seminars.</li> <li>(iv) 15 candidates awarded Ph.D. degree under the guidance of faculty members during the session.</li> <li>(v) 01 major and 02 minor projects are ongoing while 03 major and 01 minor projects have been completed during the session.</li> <li>(vi) About 69 research papers are published by the faculty member in various peer-reviewed journals /proceedings.</li> <li>(vii) Switched on annual system at UG level so that whole syllabi at UG level is revised and introduced.</li> </ul>
<p>Infrastructure development proposed:</p> <ul style="list-style-type: none"> <li>(i) To develop separate blocks for each department.</li> <li>(ii) To construct extra classrooms.</li> <li>(iii) To construct new Laboratories</li> <li>(iv) To renovate Playgrounds</li> <li>(v) To enrich the Library.</li> <li>(vi) Gardens should be covered by boundary walls</li> <li>(vii) Facility of Drinking water</li> <li>(viii) Up gradation of Canteen Facility.</li> <li>(ix) CCTV camera in campus and classrooms</li> <li>(x) Wi-Fi facilities in campus</li> </ul>	<p>Infrastructure development implemented :</p> <ul style="list-style-type: none"> <li>(i) Four new classrooms on the first floor of the Academic Block have been constructed.</li> <li>(ii) Play grounds of cricket, Foot ball, Kabbadi, Kho-Kho, Volley-ball, Basketball and Tennis were renovated during the session.</li> <li>(iii) For drinking water RO, installed in all the departments, Library, Red Building, Academic block, Examination department and various places of the college campus.</li> <li>(iv) All gardens were surrounded by boundary walls during the session.</li> <li>(v) CCTV camera in campus and classrooms were installed during the session.</li> <li>(vi) Wi-Fi facility is available in college campus.</li> </ul>
<p>Extension/Value added programmes proposed:</p> <ul style="list-style-type: none"> <li>(i) To start cleanliness drive in the college and to make it a polythene free zone.</li> <li>(ii) Yoga Karyakram for students.</li> <li>(iii) Gender equality programmes, self-defence programmes etc</li> <li>(iv) Subject like Moral Values should be incorporated as compulsory subject in the</li> </ul>	<p>Extension/Value added programmes implemented:</p> <ul style="list-style-type: none"> <li>(i) The students participated in the various programmes held on the occasion of Independence Day, Republic day and Gandhi Jayanti.</li> <li>(ii) The NCC cadets of the college performed various activities like Tree plantation, Nukkad Natak etc during the session.</li> </ul>

<p>curriculum.</p> <p>(v) To organize lecturers related to Moral values, spirituality, national integration, Indian tradition and culture etc.</p> <p>(vi) 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 &amp; "World Diabetes Day" and awareness campaign, programmes for women empowerment, cancer/ Breast Cancer awareness programme, workshop on violence against women, tree plantation.</p> <p>(vii) Civic Development Activities: Road safety programmes-Traffic rule, Awareness about RTI, Awareness about Gender sensitivity. Voting awareness campaign</p>	<p>(iii) The NSS unit organized various programmes like – Sadbhavana divas (20/08/17), Komi Ekta day (22/11/17), NSS day- tree plantation (24/09/17), 7 days camp at village Umrikheda (09 – 15/09/17), Monthly programmes of safety measures for girls with MP Police etc. during the session.</p> <p>(iv) The Red Cross Society organized Blood donation awareness rally (30/11/17), Vigilance awareness programme (30/10 – 04/11/17), Awareness about legal rights of women (09/11/17), Awareness about healthy heart (20/09/17), etc during the session.</p> <p>(v) Voter awareness programme with District Election office, Indore (25/01/18), Swaccha Bharat Abhiyan with Municipal Corporation, Indore (12-13/01/18) etc.</p> <p>(vi) <b>Assessment of Air quality of Indore City by Department of Microbiology: air sampling of different outdoor location of Indore city and their analysis for air quality (Dec 17 to Feb 18).</b></p> <p>(vii) <b>For drinking water "Microbial analysis of Water samples from different locations on GHSC campus" was conducted by Department of Microbiology during the session.</b></p>
<p>Skill oriented and student mentoring programmes proposed:</p> <p>(i) To organize lectures on entrepreneurship skill development.</p> <p>(ii) To organize lectures on personal grooming, personality development and attitude building. This will help the students to face placement agencies coming to the institution.</p> <p>(iii) To organize career fair in the college.</p> <p>(iv) To organize lectures on the use of social networking sites and on awareness for cyber crime.</p> <p>(v) Job oriented projects.</p> <p>(vi) Entrepreneurship development programme for self employment.</p> <p>(vii) To organize Workshop for improving "Communication Skill".</p> <p>(viii) Organize Zero hour classes and Bridge classes.</p> <p>(ix) To organize Remedial classes.</p> <p>(x) To organize Classes for the preparation of competitive examinations.</p> <p>(xi) To organize talent search examinations.</p>	<p>Skill oriented and student mentoring programmes implemented:</p> <p>(i) Entrepreneurship development programme is taught at the UG level as a separate course.</p> <p>(ii) Swami Vivekananda career guidance cell organized lectures: on GST (26/07/17), Interview etiquette (21/08/17), Mock Interview (14/09/17), Value addition of Agriculture product (15/09/17), SWOT Analysis (19/09/17), Development of self confidence (09/10/17), Women entrepreneurship (10/10/17), Time Management &amp; SWOT (01/02/18), Self employment &amp; Policies of Govt. for women (10/02/18),</p> <p>(iii) Personality Development Cell organized lectures on: Letter to persons related to Jan Pratinidhi/ Samajsevi/ Shashan evam Prashashan (29/12/17), Important points of Competitive Exams and Interview (06/03/18) etc.</p> <p>(iv) Remedial classes organized by department of Micro biology and Dept. of Pharma Chem. for slow learners during the session.</p> <p>(v) Training programme on "Organic Farming &amp; Mushroom Cultivation" organized by Dept. Of Horticulture &amp; seed Tech (09-21/09/17).</p> <p>(vi) 1509 UG and 185 PG students of the last semester carried out 60 hour job oriented</p>

	<p><i>projects/internship.</i></p> <p>(vii) <i>Four companies visited for campus placement and 54 students were placed, while 08 students were placed of Campus and 42 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 &amp; painting competition, Group singing, Solo singing/ rhymes. Rangoli competitions.</i></p> <p>(iii) <i>Literary Activities: Inter-House competitions, House meetings, English recitation, Hindi calligraphy, English calligraphy, Hindi &amp; English elocution (pronunciation).</i></p> <p>(iv) <i>Annual functions and Youth festivals.</i></p>	<p>Co-curricular/community extension programmes implemented:</p> <p>(i) <i>Department of Sports organized training camp of Cricket, Football, Volleyball, Basketball, Kho-Kho, Kabaddi, Softball, Table-Tanis, Tennis, Weightlifting, Badminton, Hand Ball etc during the session.</i></p> <p>(ii) <i>Department of Sports organized Judo Karate training camp for girls in self defence. Yoga training camp and Gymnasium training camp 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 Tennis (W), Volleyball(M), Basketball(W) and District level Volleyball(M) tournaments 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.</i></p> <p>(vi) <i>Many cultural and literacy activities organized by the institution during the session:</i></p> <ul style="list-style-type: none"> <li>• <i>Under “Ek Bharat Shrestha Bharat” Programme (15-20/07/17) programmes: Poster competition, Essay writing, Slogan competition.</i></li> <li>• <i>Under “Youth Festival 07-09/09/17” Programmes :Group singing, Solo singing(Classical, Sugam(Light) and Western), Instruments (Tabla), On spot Panting, Debate, Speech, Poster Making, Clay Modelling, Cartooning, Rangoli, Quiz etc competitions. Annual Function.</i></li> </ul> <p>(vii) <i>Annual functions and Youth festival were organized during the session.</i></p>
<p><b>14. Whether the AQAR was placed before statutory body?</b> Yes /No</p>	<p><b>No</b></p>
<p>Name of the statutory body: <b>Nil</b></p>	<p>Date of meeting(s): <b>Nil</b></p>
<p><b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning? Yes/No</b></p>	
<p><b>Yes - NAAC</b></p>	<p><b>Date: 07 - 09/12/2015</b></p>
<p><b>16. Whether institutional data submitted to AISHE</b></p>	<p><b>Yes</b></p>
<p>Year: <b>2017-18</b></p>	<p>Date of Submission: <b>05/03/2018</b></p>
<p><b>17. Does the Institution have Management Information System?</b></p>	<p><b>Yes (Partially)</b></p>
<p><b>If yes, give a brief description and a list of modules currently operational. (Maximum 500 words):</b></p>	
<p><i>College has Partially Management Information System as under:</i></p>	



1. 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](http://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 who facilitate 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 various committees comprising senior and experienced members of the staff for a number of activities taking place on the campus throughout the year. Constant monitoring is done to avoid any slackness in the administration.
2. Being an autonomous institution the college has its own examination department. All the activities related to the exam are carried out by this department. The administrative staff of the examination department comprises controller, deputy controller, several clerks and the peons. Students can seek information regarding their examination queries from the exam department directly. All information regarding examinations, the student can seek from college website. Fee collection is online through SBI collect. Student can submit their form online, can see their results and download provisional mark sheets online from college website.
3. Admission to the college is based on merit basis and done online through a central agency appointed by the Dept. of Higher Education Govt. of MP.
4. 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.
5. Every teaching departments of the college has been equipped with internet/Wi-Fi in order to facilitate research activities. The college website is regularly updated.

## **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(25/07/17), Biotechnology(03/08/17), Computer Sc.(12/07/17), Zoology(08/09/17), Botany(25/07/17), Bioinformatics(03/08/17), Bio Chemistry(17/08/17), Microbiology(17/07/17), Pharma Chemistry(17/08/17), Horticulture(01/08/17), Seed Tech.(01/08/17), Forensic Sc. (16/09/17), Geography(26/08/17), Fisheries(07/09/17), Geology(25/07/17), Physics(26/07/17), Electronics(04/08/17), Mathematics(03/08/17), Statistics(19/07/17), Economics(19/08/17), English Lang. (31/08/17), Entr. Dev.(21/08/17), Hindi Lang. & Moral Value(29/08/17).
UG – BCA	U002	12/07/17
PG - M.Sc. – Bio Chemistry	P003	17/08/17
PG - M.Sc. – Bio Technology	- do -	03/08/17
PG - M.Sc. – Botany	- do -	25/07/17
PG - M.Sc. – Chemistry	- do -	25/07/17
PG - M.Sc. – Computer Sc.	- do -	12/07/17
PG - M.Sc. – Fisheries	- do -	07/09/17
PG - M.Sc. – Forensic Sc.	- do -	16/09/17
PG - M.Sc. – Geology	- do -	25/07/17
PG - M.Sc. – Mathematics	- do -	03/08/17
PG - M.Sc. – Microbiology	- do -	17/07/17
PG - M.Sc. – Pharma. Chemistry	- do -	17/08/17
PG - M.Sc. – Physics	- do -	26/07/17
PG - M.Sc. – Statistics	- do -	19/08/17
PG - M.Sc. – Zoology	- do -	08/09/17
M.Phil. – Bio Chemistry	P004	17/08/17
M.Phil. – Bio Technology	- do -	03/08/17
M.Phil. – Botany	- do -	25/07/17
M.Phil. – Chemistry	- do -	25/07/17
M.Phil. – Comp. Sc.	- do -	12/07/17
M.Phil. – Zoology	- do -	08/09/17
1.1.2 Programmes/ courses focused on employability/ entrepreneurship/ skill development during the Academic year		

<b>Programme with Code</b>	<b>Date of Introduction</b>	<b>Course with Code</b>	<b>Date of Introduction</b>
All programmes listed in 1.1.1 are employable	July 17	All courses are employable. Some of them are listed below. For detailed nomenclature of courses visit our website <a href="https://collegeholkar.org/pdfs/Program%20&amp;%20course%20code.pdf">https://collegeholkar.org/pdfs/Program%20&amp;%20course%20code.pdf</a>	July 2017
		Biochemistry at UG(101-301)	July 2017
		Bioinformatics at UG(102-302)	July 2017
		Biotechnology at UG(103-303)	July 2017
		Computer Sc. at UG(106-306)(153-155,253-255,352-355,451-456,552-554,651-654),310,	July 2017
		Electronics at UG(107-307)	July 2017
		English Lang. at UG(108-308),156	July 2017
		Hindi Lang. at UG(109-309),256	July 2017
		Geology at UG(111-311)	July 2017
		Horticulture at UG (112-312)	July 2017
		Fisheries at UG(113-313)	July 2017
		Mathematics at UG(114-314) (151,251, 351, 451,551)	July 2017
		Microbiology at UG(115-315)	July 2017
		Pharma Chemistry at UG(116-316)	July 2017
		Seed Tech. at UG(118-318)	July 2017
		Statistics at UG(119-319)(152,252)	July 2017
		Forensic Sc. at UG(122-322)	July 2017
		Entrepreneurship Development at UG(110,356,456)	July 2017
		Biochemistry at PG(BC11-14,21-24,31-34, 41-44)	July 2017
		Biotechnology at PG(BT11-14,21-24,31-34, 41-44)	July 2017
		Botany at PG(BO11-14,21-24,31-34,41-44)	July 2017
		Chemistry at PG(CH11-14,21-24,31-34,41-44)	July 2017
		Computer Sc. at PG(CS11-14,21-24,31-34, 41 - 44)	July 2017
		Fisheries at PG(F11-14,21-24,31-34,41-44)	July 2017
		Forensic Sc. at PG(FS11-14,21-24,31-34,41-44)	July 2017
		Geology at PG(G11-14,21-24,31-34,41-44)	July 2017
		Mathematics at PG(M11-15,21-25,31-35,41-45)	July 2017
		Microbiology at PG(MB11-14,21-24,31-34, 41-44)	July 2017
		Pharma Chemistry at PG(PC11-14,21-24,31-34, 41-44)	July 2017
		Physics at PG(P11-14,21-24,31-34,41-44)	July 2017
		Statistics at PG(S11-14,21-24,31-34,41-44)	July 2017
		Zoology at PG(Z11-14,21-24,31-34,41-44)	July 2017



		60 hours job oriented project/internship is mandatory for the students of last semester/year at UG and PG level.	July 2017
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## 1.2 Academic Flexibility

### 1.2.1 New programmes/courses introduced during the Academic year.

Programme/Course	Date of introduction
Biomolecules (Paper I) UGI	17/08/17
Biophysical and Biochemical Tech(PaperII)UGI	17/08/17
Introduction to Bioinformatics(Paper I)UGI	03/08/17
Concept of Bioinformatics(Paper II)UGI	03/08/17
Cell structure Biology(Paper I)UGI	03/08/17
Microbiology(Paper II)UGI	03/08/17
Diversity of Lower plants(Paper I)UGI	25/07/17
Diversity of Higher plants (Paper II)UGI	25/07/17
Physical Chemistry(Paper I)UGI	25/07/17
Inorganic Chemistry (Paper II)UGI	25/07/17
Organic Chemistry (Paper III)UGI	25/07/17
Fundamentals of Computers(Paper I)UGI	12/07/17
Programming in C(Paper II)UGI	12/07/17
Basics of semiconductors & Devices (Paper I)UGI	04/08/17
Electronics Circuits & Fundamentals of Electronics(Paper II)UGI	04/08/17
Geodynamics and Geomorpho(Paper I)UGI	25/07/17
Crystallography & Mineralogy(Paper II)UGI	25/07/17
Basics of Horticulture(Paper I)UGI	01/08/17
Fruits & Vegetable Production(Paper II)UGI	01/08/17
Fish Biology(Paper I)UGI	07/09/17
Capture Fisheries(Paper II)UGI	07/09/17
Algebra & trigonometry(Paper I)UGI	03/08/17
Calculus of Differential Equation(Paper II)UGI	03/08/17
Vector Analysis and Geometry(Paper III)UGI	03/08/17
General Microbiology and Cell Biology(Paper I)UGI	17/07/17
Tools and Techniques in Microbiology(Paper II)UGI	17/07/17
Pharmaceutical Organic Chemistry(Paper I)UGI	17/08/17
Inorganic and Pharmaceutical Analysis(Paper II)UGI	17/08/17
Mathematical Physics, Mechanics & Prop. Of Matter(Paper I)UGI	26/07/17
Thermodynamics and Statistical Physics(Paper II)UGI	26/07/17
Principal of Seed Technology(Paper I)UGI	01/08/17
Seed Production and Practices(Paper II)UGI	01/08/17
Statistical Methods(Paper I)UGI	19/08/17
Probability & Probability Distribution(Paper II)UGI	19/08/17
Invertebraye(Paper I)UGI	08/09/17
Cell Biology & Developmental Biology(Paper II)UGI	08/09/17
Micro Economics(Paper I)UGI	19/08/17
Indian Economy(Paper II)UGI	19/08/17
Introduction of Forensic Science(Paper I)UGI	16/09/17
Crime Investigation(Paper II)UGI	16/09/17
Physical Geography(Paper I)UGI	26/08/17
Introduction to Geography & Human Geography(Paper II)UGI	26/08/17

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)				Nil	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	
Nil		Nil		Nil	
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: Forest Conservation, Food Preservation, Zoo Management, Teaching, Pathology, Pharmaceutical Lab, Business Management, Dairy, Museum Management, Hospital Management, Shifa Khana, Bio Fertilizers, Quality Control (Pharma, Drugs & Dugdh Sangh), Medical Investigations, Soil Examination, Medical Store Management, Paramedical Services, Manufacturing and Quality Control of Pharmaceutical Product in Drugs Industries, Crime Scene Management, Pathology & Impression Marks, NGO, Geological Field study Projects, Mushroom Culture, Trees of Zoo, Plant Tissue culture, Forest Nursery, Flora in Zoo, Horticulture, Vermi composting, Floriculture, Organic Forming, Soil Analysis, Bonsai Techniques.		1509			
60 hour job oriented project/internship is mandatory for all the students at PG level in the last semester: Fruit Preservation, Pathology Lab, Biosunces; Dugdh Sangh(Quality Control), Anti Microbial activities of medicinal plant, Agro crop Science; Manufacturing and Quality Control (Pharma Compound); Questioned document, Anthropology, Crime Scene, Investigation, DNA, Profiling and Serology, Instrumentation; Study of Water analysis, Study of Native Plants, Flora in		185			

Zoo, Teaching and School Management. Computer Hardware and Networking, computer software, Cyber café, Online services etc.				
<b>1.4 Feedback System</b>				
<b>1.4.1 Whether structured feedback received from all the stakeholders. Feedback Taken by Various department at department level.</b>				
1) Students	2) Teachers	3) Employers	4) Alumni	5)Parents
<b>Yes</b>	<b>Yes</b>	<b>No</b>	<b>Yes</b>	<b>Yes</b>
<b>1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)</b>				
<b>During the session the feedback are obtained at various department level, Feedback analysed and steps are taken as per suggestions given.</b>				
<b>Evaluation(Zoology):</b> <ul style="list-style-type: none"><li>• Feedback of Teachers on: Knowledge, communication skills, sincerity, ability to integrate course, material accessibility of teacher, ability to design quizzes. Feedback of Course on: Course depth, coverage of course, applicability, relevance, learning value, clarity and library.</li><li>• Feedback of parents on: Performance of ward, quality of teaching, examination system, discipline, subject knowledge, teacher’s behaviour, library, students counselling &amp; guidance, internet facility, extracurricular activities &amp; sports.<ul style="list-style-type: none"><li>➤ More than 50% students of M.Sc. Zoology and their parents are not only satisfied with the teaching quality but also with the existing facilities.</li><li>➤ 55.29% students appreciated the teaching and the efforts taken by the teachers.</li><li>➤ Canteen facility was not up to the mark as perceived by the parents.</li></ul></li></ul> <p>To improve the teaching methods many instruments, charts, models, specimen &amp; slides are added to the present stock of zoology department. Seminar lectures guest lecture have also been arranged.</p>				
<b>Evaluation(Biochemistry):</b> Feedback from students, parents, alumni is regularly taken by the department. Most of the parents are satisfied with the academic, teaching and other activities.				
<b>Evaluation(Microbiology) :</b> Department has taken feedback from the students, parents, teachers. 80% students are well satisfied.				
<b>Evaluation(Pharma Chemistry):</b> Feedback committee collects and analyzes the feedback and gives suggestions to appropriate bodies. Feedback on curriculum is collected from students and suggestions are incorporated by the department. Feedback of parents is collected in PTM and the feedback of alumni is collected in alumni meeting. Feedback is analysed and steps are taken as per suggestions given.				

<b>CRITERION II -TEACHING-LEARNING AND EVALUATION</b>
<b>2.1 Student Enrolment and Profile</b>

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 -	25		
PG-M.Sc.–Bio Technology	15	- do -	15		
PG - M.Sc. – Botany	20	- do -	20		
PG - M.Sc. – Chemistry	40	- do -	38		
PG – M.Sc.– Computer Sc.	30	- do -	16		
PG – M.Sc. – Fisheries	20	- do -	04		
PG – M.Sc. – Forensic Sc.	30	- do -	30		
PG – M.Sc. – Geology	25	- do -	25		
PG – M.Sc. – Mathematics	60	- do -	60		
PG –M.Sc. – Microbiology	20	- do -	20		
PG –M.Sc.–Pharma.Chem.	20	- do -	20		
PG – M.Sc. – Physics	25	- do -	25		
PG – M.Sc. – Statistics	25	- do -	08		
PG – M.Sc. – Zoology	20	- do -	20		
M.Phil. – Bio Chemistry	05				
M.Phil. – Bio Technology	05				
M.Phil. – Botany	10				
M.Phil. – Chemistry	10				
M.Phil. – Comp. Sc.	10				
M.Phil. – Zoology	10				
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
2017-18	5538	511	196	116	196
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
196	125	OHP: 10,	23	13	Over Head Projector, Power

		LCD Projector 15 Smart Board: 15 Computers: 259 Internet, wi-fi available			Point Presentation, e-Library (delnet/Infibnet), e-book, online videos & animation, Internet, etc.
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### 2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)

Mentoring of the students is done through the proctors. For every section of UG and PG classes a proctor is assigned by the institute. The proctor acts as a mentor for the students of his section and he guides them 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 at 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 correct career path.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
<b>6049</b>	<b>196</b>	<b>1:31</b>

## 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.
<b>Regular: 107</b>	<b>85</b>	<b>22</b>	<b>Recruitment done by Govt.</b>	<b>72</b>
<b>Guest Faculty (Govt.)</b>			<b>14</b>	<b>06</b>
<b>Guest Faculty:97</b>	<b>97</b>	<b>07</b>	<b>97</b>	<b>23</b>
<b>Total: 204</b>	<b>182</b>	<b>22</b>	<b>111</b>	<b>101</b>

### 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
2017	Dr. Angurbala Bafna	Associate Prof.	Best Paper Publication award in International Journal of agricultural science and Research by TJPRC Journals of best paper award committee 31/10/17.
2017	Dr. Tasneem Rangwala	Assistant Prof.	Best Paper Publication award in International Journal of agricultural science and Research by TJPRC Journals of best paper award committee 31/10/17.

## 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	16.05.18	11.06.18
B.C.A.	U002	Semester	05.05.18	11.06.18
M..Sc.	P003	Semester	09.05.18	20.06.18
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
280			10865	2.57%
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	Programme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage
U001	B.Sc.	1409	1264	89.71%
U002	B.C.A.	100	90	90%
P003	M.Sc.	185	175	94.59%
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 web link) - Nil				

### CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION



<b>3.1 Promotion of Research and Facilities</b>				
3.1.1 The institution provides seed money to its teachers for research,				
Yes..... No. .... if yes give details				
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
<b>3.2 Resource Mobilization for Research</b>				
3.2.1 Research funds sanctioned and received from various agencies, industry and other organisations				
Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major projects	2 Years	MPCST	478000	209000(Bot)
Minor Projects	3 Years	UGC	175000	60000(Bot)
	3 Years	UGC	175000	80000(Micro)
Interdisciplinary Projects	Nil	Nil	Nil	Nil
Industry sponsored Projects	Nil	Nil	Nil	Nil
Projects sponsored by the University/ College	Nil	Nil	Nil	Nil
Students Research Projects (other than compulsory by the College) “ <b>Water Analysis Project</b> ”	Nil	Nil	Nil	Nil
International Projects	Nil	Nil	Nil	Nil
Any other(Specify)	Nil	Nil	Nil	Nil
<b>Total</b>			<b>828000</b>	<b>349000</b>
3.2.2 Number of ongoing research projects per teacher funded by government and non-government agencies during the years				
Major Project - 01, Minor Project - 02				
<b>3.3 Innovation Ecosystem</b>				
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)	
Training Programme on Organic Farming & Mushroom Cultivation	Seed Technology & Horticulture		09 – 21/09/ 2017	
Conservation of environment and wild life	Dept. of Micro Biology & Forest Department M.P. Govt. Badgonda		16/02/18	
Invited Talks on Applications of Free and Open Source software for Geospatial.	Department of Geology, OSGeo India		04/01/18	
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
<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

### 3.3.3 No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Centre	Name	Sponsored by
<b>Nil</b>	<b>Nil</b>	<b>Nil</b>
Name of the Start-up	Nature of Start-up	Date of commencement
<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

## 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	05
Chemistry	02
Physics	02
Zoology	06
<b>Total</b>	<b>15</b>

### 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	01	--
	Zoology	07	--
	Chemistry	01	--
	<b>Total</b>	<b>09</b>	
International	Bio Chem.	07	--
	Bioinfo.	01	--
	Botany	02	--
	Fisheries	01	--
	Maths	10	--
	Zoology	27	--
	Chemistry	07	3.2
	Physics	05	5
	<b>Total</b>	<b>60</b>	<b>4.1</b>
<b>Total</b>		<b>69</b>	<b>4.1</b>

### 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.	<b>02</b> (ISBN978817677311-5) (ISBN978817677312-3)

### 3.4.4 Patents published/awarded during the year

Patent Details	Patent status <b>Published/Filed</b>	Patent Number	Date of Award
<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

### 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 authors	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Vignaradiata: A Potent Pythofiltrator of Lead Grown Hydroponically in Sewage	Angurbala Bafna	Agriculture Environment and Biotechnology Citations	2018	Nil	Dept. of Biochemistry Holkar Science, Indore	Nil
Status of serum anti-mullerian hormone and lipid profile in polycystic ovarian syndrome: a cross sectional study at tertiary care centre of central India	Sangita Paneri, Shakti Suslade, Angurbala Bafna, Jayshree Shreedhar, P. Dey Sarkar, Meena Verma	International Journal of Research in Medical Sciences	2018	Nil	Dept. of Biochemistry, Holkar Science, Indore	Nil
Status of serum AMH and lipid profile in polycystic ovarian syndrome	Shakti Suslade, Sangita Paneri, Angurbala Bafna, J. Shreedhar	International Journal of Recent Trends in Science and Technology	2018	Nil	Dept. of Biochemistry, Holkar Science, Indore	Nil
Study of Chlorophyll, Carbohydrate and Protein content of Trigonella foenum graecum (Fenugreek) irrigated with Different Sources of Water	Sharma P., Bafna A., Batham A. R.	International Journal of Research in Chemistry and Environment	2017	Nil	Dept. of Biochemistry, Holkar Science, Indore	Nil
Role of Soluble Silica in Reducing Oxidative Stress in Trigonella foenum graecum (Methi) Grown Hydroponically in Sewage Water	Jaiswal P., Bafna A., Rangwala T., Vyas N. and Gupta R.	International Journal of Agricultural Innovation and Research	2017	Nil	Dept. of Biochemistry, Holkar Science, Indore	Nil
Soluble Silica as a boon for alleviation toxic effects of heavy metals on Vigna radiata grown hydroponically in sewage	Harshal Goyal, Angurbala Bafna, Tasneem Rangwala, Nagesh Vyas and Rohan Gupta	International Journal of Agricultural science and Research	2017	Nil	Dept. of Biochemistry, Holkar Science, Indore	Nil
Phyto-filtration of toxic heavy metal from sewage water by growing Trigonella foenum graecum seedlings hydroponically	Jaiswal P., Bafna A. and Batham A.R.	Life Sciences Leaflets	2017	Nil	Dept. of Biochemistry, Holkar Science, Indore	Nil
"A study on relation Between various	Prof. Aakriti Shrivastava	Indian Journal	2018	Nil	Dept. of Bioinformatics	Nil

prognostic factors and survival outcomes of retinoblastoma patients.”		applied research (ophthalmology)			ics, Holkar Science, Indore	
Folk Herbal Drugs used in birth control by tribal's of western of Madhya Pradesh, India	Ravindra Singh, NK Jain and Jitendra Singh Pachaya	Life Science International Research Journal	2018	Nil	Dept. of Botany, Holkar Science, Indore	Nil
Ecofriendly dyeing with Senegalia catechu using biomordant	Taiyaba N. Ansari, Sanjeeda Iqbal, Shyam Barhanpurkar	International Journal of Creative Research Thoughts (IJCRT)	2018	Nil	Dept. of Botany, Holkar Science, Indore	Nil
Application of natural dyes with biomordants for coloration of cotton	Sanjeeda Iqbal, Arif Patel	Journal of Emerging Technologies and Innovative Research (JETIR)	2018	Nil	Dept. of Botany, Holkar Science, Indore	Nil
Evaluation of Antimicrobial Potential of Silver Nanoparticles Using Osmium Sanctum Ficus Bengalensis against Two Pathogenic Bacteria	Pramila Kori	International Journal of research	2018	Nil	Dept. of Chemistry, Holkar Science, Indore	Nil
Phytochemical Analysis of Carica Papaya Leaves & Root Extra CTS and Citrus Sinensis Leaves Extracts.	Pramila Kori	Ind. Res. Comm.	2018	Nil	Dept. of Chemistry, Holkar Science, Indore	Nil
Comparative Evaluation of Phytochemicals, TPC and TFC in Aqueous and Ethanolic Extracts of Calotropis gigantea L. Leaves and Roots	Pramila Kori	International Journal of Science and Research	2018	Nil	Dept. of Chemistry, Holkar Science, Indore	Nil
Comparative study of preliminary phytochemical extract of Catharanthus roseus Leaves	Dr. Ashok Barua	International Journal of Scientific Development and research	2018	Nil	Dept. of Chemistry, Holkar Science, Indore	Nil
Comparative assessment of water quality of river kshipra during kumbh mela Ujjain 2016	Dr. Ashok Barua	International Journal of Scientific Development and research	2018	Nil	Dept. of Chemistry, Holkar Science, Indore	Nil

Investigation of Mentha spicate extract as green corrosion inhibitor for mild steel in 2 M sulphuric acid medium	Dr. Pramod Jain	Research journal of Pharmacy and technology	2018	Nil	Dept. of Chemistry, Holkar Science, Indore	Nil
Molecular Interaction Study of Binary Solutions of n-Butyl Acetate and Isopropanol at Various Temperatures	Chanchala Joshi and Dr. Geetha Sarasan	Research Inventy: International Journal of Engineering And Science	2018	Nil	Dept. of Chemistry, Holkar Science, Indore	Nil
Micellization of Dodecyltrimethyl ammonium bromide in pure and binary solvent system of water and ethylene glycol: A thermodynamic Approach	M. Khandedelwal and Geetha Sarasan	IAETSD journal for advanced research in applied sciences	2018	Nil	Dept. of Chemistry, Holkar Science, Indore	Nil
Assessment of physicochemical quality of the sub pond of the Gawala Talab Maheshwar, Khargone (MP)	Rohit Verma	South Asian Journal of Multidiscipli nary Study	2018	Nil	Dept. of Industrial Fish & Fisheries, Holkar Sc. College, Indore	Nil
A Fuzzification of Follicle Stimulating Hormone Computerized Prediction	Nutan Verma , Vivek Raich and Sharad Gangele	International Journal of Computer Application (2250-1797) Volume 7– No.5, September-October 2017	2017	Nil	Dept. of Mathematics, Govt. Holkar Sc. College, Indore	Nil
Common fixed point of semi-compatible maps in partially ordered complex valued generalized metric space.	R. K. Sharma, C.S.Chauhan, V. Raich	South east. Asian J. of Math.& Math. Sci 13(2), 2017, 105-124	2017	Nil	Dept. of Mathematics, Govt. Holkar Sc. College, Indore	Nil
Global dynamic of an SIQR epidemic model with saturated incidence rate.	Harish Joshi G.L. Prajapati, R.K. Sharma	Asian J. of Math. & Comp. Res. 24(1), 2017, 156-166	2017	Nil	Dept. of Mathematics, Govt. Holkar Sc. College, Indore	Nil
Dynamic analysis of an epidemic model with saturated incidence rate involving treatment.	Harish Joshi G.L. Prajapati, R.K. Sharma	J. Indian Academy of Mathematics, 39(1), 2017,	2017	Nil	Dept. of Mathematics, Govt. Holkar Sc. College,	Nil

		113-128.			Indore	
On Generalization of Banach Contraction Principle in Partial Ordered Metric spaces	R. K. Sharma, C.S.Chauhan, V. Raich	Global J. of Pure & Appl. Maths., 13(5), 2213-2234, 2017	2017	Nil	Dept. of Mathematics, Govt. Holkar Sc. College, Indore	Nil
Simulation studies of public transport vehicle at various routs using single server M M I Quene Model	R.K. Sharma, Nidhi Sharma Pradeep Joshi	South east J. of Math & Math. Sc. 3(1), 2017, 71 - 86	2017	Nil	Dept. of Mathematics, Govt. Holkar Sc. College, Indore	Nil
Stability Analysis of an SIQS Model with Saturated Incidence Rate	Harish Joshi, G.L. Prajapati, R.K. Sharma	IJRSE 6(1), 624-631, 2017	2017	Nil	Dept. of Mathematics, Govt. Holkar Sc. College, Indore	Nil
Fuzzy Computerized Profile Prediction of Luteinizing Hormone	Nutan Verma , Vivek Raich and Sharad Gangele	International Journal of Theoretical & Applied Sciences, 10(1): 234-238(2018)	2018	Nil	Dept. of Mathematics, Govt. Holkar Sc. College, Indore	Nil
Algorithm: Fuzzification of Anti-Mullerian Hormone and Thyroid	Nutan Verma , Vivek Raich and Sharad Gangele	Biological Forum – An International Journal 10(1): 125-128(2018)	2018	Nil	Dept. of Mathematics, Govt. Holkar Sc. College, Indore	Nil
Generalized common fixed point theorem for four self mappings in b-metric space Generalized common fixed point theorem for four self mappings in b-metric space	R.K. Sharma, Akash Singhal Anil Agrawal	IJSRMSS 5(4), 218-225, 2018	2018	Nil	Dept. of Mathematics, Govt. Holkar Sc. College, Indore	Nil
Quantum size effect on the heat capacity of nickel nanolattice	J. Singh, Tarachand, S. S. Samatham, D. Venkateshwarlu, NetramKaurav, V. Ganesan and G. S. Okram	Appl. Phys. Lett.	2017	Nil	Dept. of Physics, Govt. Holkar Sc. College, Indore	Nil
Surface Plasmon resonance effect of Cu nanoparticles in Dye sensitized solar cell	Mahesh Dhonde, KirtiSahu, VVS Murty, Siva Sankar Nemala & Parag Bhargava	Electrochimica Acta	2017	Nil	Dept. of Physics, Govt. Holkar Sc. College, Indore	Nil



X-Ray K-Absorption Near Edge Structural Studies of Mixed Ligand Copper II With Pyridine-2-Carboxamide and Amino Acids	P.K.Malviya , Varsha Malviya and Rashmi Kame	International Journal of Scientific Research in Physics and Applied Sciences	2017	Nil	Dept. of Physics, Govt. Holkar Sc. College, Indore	Nil
X-ray Absorption Near Edge (XANES) Studies of Cu-Ni Ferrites	P. Sharma, Ashutosh Mishra , Rashmi kame	International Journal of Scientific Research in Physics and Applied Sciences	2017	Nil	Dept. of Physics, Govt. Holkar Sc. College, Indore	Nil
Synthesis and characterization of Co nanoparticles	Netram Kaurav	DAE Solid State Physics Symposium 2016	2017	Nil	Dept. of Physics, Govt. Holkar Sc. College, Indore	Nil
Hunting behavior and stenophagous diet of spider myrmacophage Amyciaeforticeps	V. K. Sharma and K. Khandelwal	Indian research communicati on	2017	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Immune response of goat (Capra hircus) against Fasciola hepatica	Dr. Santosh Gaherwal	International Journal of Scientific Research in Multidiscipli nary Sciences	2017	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Impact of Zinc Oxide nanoparticles on pathogenic Bacteria	Santosh Gaherwal and MMP Shrivastava	Life Science Bulletin	2017	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
In Vitro Antimicrobial Potential of Boerhaviadiffusa Leaf extract on Pathogenic Organism	Dr. Kiran Billore	World Journal of Pharmaceutic al Research	2017	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Isolation of Latrodectus Venom and Proteomic Analysis of $\alpha$ -Latrotoxin	Ankit Kumar Jain, Vipul keerti Sharma, N.K. Dhakad, Sachin Rahangdale	International Journal of Research Studies in Biosciences (IJRSB)	2017	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Narcotics drugs abuse	Dr. M.M.P.	Int.J.Pharmac	2017	Nil	Dept. of	Nil

pattern of Indore city with special reference of opium, marijuana and cannabis	Shrivastava	ol.Biol.Sci.			Zoology, Govt. Holkar Sc. College, Indore	
Narmada Nadi ke Bhotik Rasayanik Manako ka Muliyankan	Dr. Abida Qureshi	International Resear4ch Journal	2017	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Relative abundance, borer density and infection percentage of maize stem borers (Chilopartellus) of Indore district of MP, India	Dr. Santosh Gaherwal	International Journal of life Science	2017	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Survival strategies of instar nymphs of Solifugae (Family: Galeodidae, Arachnida) in the laboratory conditions	Bharat Pandram, V.K. Sharma	International Journal of Zoology Studies	2017	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Time related expulsion of Heligmosomidespolygyr uas in mice vaccinated with adult somatic antigens	V. K. Sharma	Indian research communicati on	2017	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Use of effective herbal plants against tick removal in mhow region (M.P.)	Santosh Gaherwal and MMP Shrivastava	Indian research communicati on	2017	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Population Dynamics of Zooplanktons in Sirpur lake in Indore Dist., (M.P.)	Dr. Rekha Sharma	Indian Journal of Applied Research	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Measurement of transparency using Prakash - Dagaonkar column method at Munj sagar talaab,Dhar(M.P.)	Dr. M.M.P. Shrivastava	J. Env. Sciences Toxicology and Food Technology	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Effect of various narcotics drugs on sensory response on	Dr. M.M.P. Shrivastava	Int.J.Pharmac ol.Biol.Sci.	2018	Nil	Dept. of Zoology, Govt.	Nil

chick, sole and palm of drugs addict person					Holkar Sc. College, Indore	
Study of lymphocyte migration inhibition factors in mice experimentally infected and vaccinated with <i>Aspicularistetraptera</i>	Dr. M.M.P. Shrivastava	Int. J. of Zoology Studies	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Change Albumin and globulin in mice experimentally infected and vaccinated with <i>Aspicularistetraptera</i>	Dr. M.M.P. Shrivastava	International Journal of Research	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Application of Multivariate Statistical Metod (Cluster Analysis) to Physico-Chemical Parameters of MunjSagarTalab, Dhar( Madhya Pradesh, India).	Dr. M.M.P. Shrivastava	Ind Res. Comm	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Population Dynamics of Zooplanktons in Sirpur lake in Indore Dist., (M.P.)	Dr. Rekha Sharma	Indian Journal of Applied Research	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Antibacterial activities of fenugreek leaves and stems against the pathogenic bacteria <i>E.coli</i>	Dr. Kiran Billore	International Journal of Research	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Assessment of phytochemicals, antioxidant activity of extracts & various fraction of <i>friganella</i> ...roots	Dr. Kiran Billore	International Journal of Research	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Mating strategies of solifugae <i>Galeodes Olivier 1791</i> , (arachnida: galeodidae) in laboratory conditions	Bharat Pandram and Vipul Keerti Sharma	International Journal of Zoology and Applied Biosciences.	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Measurement of Transparency Using Prakash-	Dr. Amita Dagaonkar	IOSR J. of Environmental Science, Toxicology	2018	Nil	Dept. of Zoology, Govt. Holkar Sc.	Nil

		and Food Technology			College, Indore	
Study of Correlation of Drinking Water in Indore City (M.P.)	Ram Prajapati and Reena Rokde	International Journal of Science and Research	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Study of Benthic macro Invertebrates Communities of Narmada River in (M.P.)	Ram Prajapati and Smitha G. Nair	International Journal of Science and Research	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Biochemical changes in Kidney & Liver of Clarias batrachus induced by cypermethrin	Dr. Santosh Gaherwal	International Journal of Zoology Studies	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Diversity of Macro invertebrates in Kunda reservoir District Dhar MP	Dr. Santosh Gaherwal	International Journal of Zoology Studies	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
To compare the dominance of Natural enemy complex against maize stem borer, Chilopartellus	Dr. Santosh Gaherwal	International Journal of Advance Research in Science & Engineering	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
A Preliminary study on Avian Fauna at Govt. (Model, Autonomous) Holkar Science College, Indore, (MP)	Dr. Santosh Gaherwal	International Journal of Scientific Research in Biological Sciences	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Effect of herbicide 2,4-D on hematological parameters of Clarias Batrachus	Dr. Santosh Gaherwal	International Journal of Current Research in Life Science	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Effect of Juvenile Hormone Analogue (Methoprene) on Development of Silkworm Larvae and Silk Production	Dr. Santosh Gaherwal	International Journal of Research	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Evaluation of	Dr. Santosh	International	2018	Nil	Dept. of	Nil

Antimicrobial Potential of Silver Nanoparticles using Osmium Sanctum Ficus Bengalensis against Two Pathogenic Bacteria	Gaherwal	Journal of Research			Zoology, Govt. Holkar Sc. College, Indore	
Study on lymphocyte migration inhibition factors in mice experimentally infected and vaccinated with Aspicularistetraptera	Dr. Santosh Gaherwal	International Journal of Zoology Studies	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
Synthesis of plants extract mediated copper nanoparaticles and thir impact on Pathogenic Bacteria	Dr. Santosh Gaherwal	International Journal of Research and Analytical Reviews	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil
A Preliminary study on Avian Fauna at Govt. (Model, Autonomous) Holkar Science College, Indore, (MP)	Dr. Renu Jain	International Journal of Scientific Research in Biological Sciences	2018	Nil	Dept. of Zoology, Govt. Holkar Sc. College, Indore	Nil

#### 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	14	80	20	35
Presented papers	50	05	00	00
Resource Persons	01	01	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/Sponsoring 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 in such activities	Number of students participated in such activities	
Blood donation awareness rally(30/11/17)	Red Cross Soc. & Biochem.	05	20	
Vigilance awareness (30/10 -0 4/11/17)	Red Cross Soc. & Biochem.	05	50	
Competition to create awareness about legal rights of women. (09/11/17)	Red Cross Soc. & women empowerment cell (Lecture delivered by Shri Vijay Mukut Joshi)	06	60	
Blue whale game(13/09/ 17)	Red Cross Soc. Biochem	05	30	
Lecture on awareness about keeping healthy heart (20/09/17)	Red Cross Soc. & Lions Club Indore (Biochem) (Lecture delivered by J. Hezig, Germany)	05	50	
Health Checkup Camp	Red Cross Soc. & Biochem	05	30	
“Sadbhavna day”( 20/08/17) Saphat graham and sadbhavna rally.	NSS both Units	50	136	
“Komi ekta day” ( lecture and easy writing) 22/11/17	NSS both Units	20	120	
“Village adoption” (Umrikheda” adopted during the session)	NSS both Units	05	120	
“NSS day” (On “NSS day” tree plantation, essay writing and eye check-up camp. Organized) 24/09/17	. NSS both Units	05	120	
“7 days special camp” (7days special NSS camp organized at village “Umrikheda”), 09 - 15/09/17	NSS both Units (in which 19 activities are organized)	04	100	
Monthly programme of safety measures for girls.	NSS both Units (Every month Police station in charge organized meetings with girls and gave safety measures)	02	50	
Tree Plantation	1MP Girls BN NCC	03	20	



Blood Donation	1MP Girls BN NCC	03	15
Traffic Rule Cyclothon	1MP Girls BN NCC	02	45
Nukkad Natak	9MP BN NCC	03	45
Traffic Control Programme (01-07/01/18)	9MP BN NCC	01	15

### 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 Camp(Boys)	Two students selected for University level camp (20-24/02/18)	University	<b>02</b>
NSS Camp(Boys)	One students selected for State level camp (23-29/03/18)	State	<b>01</b>
NSS Camp(Girls)	Three students selected for University level camp (20-24/02/18)	University	<b>03</b>
NSS Camp(Girls)	One student selected for State level camp (22-28/02/18)	State	<b>01</b>
NSS Camp(Girls)	One student selected for National level camp (Pre. RD)(16-26/10/17)	National	<b>01</b>
National Awards in NCC	Five cadets awarded at national during the session	National	<b>05</b>
RDC Parade camp	Two Girls cadets selected for RDC parade camp	National	<b>02</b>
1MPBNNCC(Girls)	NATIONAL , SNIC-2018(Port Blair)(05-16/01/18)	National	01 Shriya Bhavsar
1MPBNNCC(Girls)	NATIONAL , All India NCC Girls Trekking Expedition 2018(Baijnath)(02-11/06/18)	National	03, Anam Sheikha, Neetu Mourya, Tanuja Balodiya

### 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-ordinate such activities	Number of students participated in such activities
Gender Issue	NSS both Units	Monthly programme of safety measures for girls. (Every month Police station in charge organized meetings with	02	50

		girls and suggested safety measures)		
Gender Issue (09/11/17)	Red Cross Soc. & women empowerment cell	Competition to create awareness about legal rights of women. (Lecture delivered by Shri Vijay Mukut Joshi)	06	60
Heart Awareness (20/09/17)	Red Cross Soc. & Lions Club Indore (Biochem)	Lecture on awareness about keeping healthy heart (Lecture delivered by J. Hezig, Germany)	05	50
Voter Awareness Program	District Election Office Indore (M.P)/ (For. Sc.)	Voter awareness related competitions like Slogan writing, Essay writing, Debate, Drawing etc. (25/01/18)	03	15
Swachh Bharat Abhiyan	Dept. of Microbiology & Municipal Corporation, Indore	Two days Seminar on "Role of Science and Technology in Swachh Bharat Abhiyan" (12& 13 Jan. 2018)	50	148
Assessment of Air Quality of Indore City	Department of Microbiology, Govt. Holkar Science College, Indore	Air sampling of Different outdoor locations of Indore (Dec. 17 to Feb. 18)	06	20

### 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
Nil	Nil	Nil	Nil

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 (Micro Bio)	Internship	Gurajar Hospital	2017-18 (Jan. to Feb.)	31
do	Internship	Shinton Chemicals	2017-18 (Jan. to Feb.)	11
do	Internship	Swasthik Pathology Lab	2017-18 (Jan. to Feb.)	4
do	Internship	Greater Kailash Hospital	2017-18 (Jan. to Feb.)	1
do	Internship	Forest circle Badgonda	2017-18 (Jan. to Feb.)	6
do	Internship	Cyano Pharma Pvt. Ltd.	2017-18 (Jan. to Feb.)	1
do	Internship	CHL, Hospital	2017-18 (Jan. to Feb.)	1
do	Internship	Ruchi Soya Industry	2017-18 (Jan. to Feb.)	1
PG student's training(Geo)	Internship	Geological Survey of India, Central Region State Unit M.P.,Bhopal	13-17/01/2018	04

UG Student's training(Geo)	Internship	Mining Officer, Indore district, Ujjain district, M.P.		12+15
do	Internship	Rajeev Gandhi Water Shed Mission, Panchayat Office, Panchayat Bhawan, Indore		12
do	Internship	Directorate of Geology and Mines, Bakshi Bag, INDORE, M.P.		15

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

Organisation	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs
Institute of Excellence in Higher Education (IEHE), Bhopal (M.P.) (Dept. of For. Sc.)	Dec. 2016	Exchange of researchers, students, publications, books, academic programs and research projects.	01(Faculty BOS Member)
PG Tech Research Institute		Training Programme	35 (Pharma)
PG Tech Research Institute		Internship by UG Students	30 (Pharma)

**CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES**

<b>4.1 Physical Facilities</b>						
<b>4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year</b>						
Budget allocated for infrastructure augmentation			Budget utilized for infrastructure development			
31000000			30754700			
<b>4.1.2 Details of augmentation in infrastructure facilities during the year</b>						
Facilities			Existing		Newly added	
Campus area			34 Acres		--	
Class rooms			45		04	
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 (≥ 1-0 lakh) during the current year.			19		25	
Value of the equipment purchased during the year (Rs. in Lakhs)			Nil		740221	
Others			Nil		Nil	
<b>4.2 Library as a Learning Resource</b>						
<b>4.2.1 Library is automated {Integrated Library Management System (ILMS)}</b>						
Name of the ILMS software		Nature of automation (fully or partially)		Version		Year of automation
SOUL		Fully		2.0		2015
<b>4.2.2 Library Services:</b>						
	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	62627	--	517	187439	63144	--
Reference Books	28890	--	--	--	28890	--
e-Books	Del-net	--	--	--	--	--
Journals	3791	--	--	--	--	--
e-Journals	Infilbnet	--	--	--	--	--
Digital Database	65114	--	--	--	--	--
CD & Video	350	--	--	--	--	--
Library automation	Fully	--	--	--	--	--
Winding (Hard & Soft)	--	--	--	--	--	--
Others (specify)Thesis	619	--	14	--	633	--
<b>4.2.3 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 &amp; institutional (Learning Management System (LMS) etc</b>						
Name of the teacher	Name of the module		Platform on which module is developed		Date of launching e - content	
Nil	Nil		Nil		Nil	
<b>4.3 IT Infrastructure</b>						

4.3.1 Technology Up gradation (overall)									
	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MGBPS)	Others
Existing	259	13	Yes	03	02	18	21	100MBPS	
Added	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	
Total	259	13	Yes	03	02	18	21	100MBPS	
4.3.2 Bandwidth available of internet connection in the Institution (Leased line)									
..... MBPS /GBPS									
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		6700000		24000000		24054700			
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) (Annexure VI)									
<b>Response:</b>									
<i>The college has its Maintenance Policy which was implemented in 2015. (<a href="http://www.collegeholkar.org">http://www.collegeholkar.org</a>)</i>									
<i>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.</i>									
<i>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.</i>									
<i>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.</i>									
<i>Adequate provision in the budget is made by the Janabhagidari Samiti and the State Government to conduct the above activities smoothly</i>									

*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 infrastructure 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 officers 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 work under the supervision of the college administration. They are in charge of the security of 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.*



<b>CRITERION V - STUDENT SUPPORT AND PROGRESSION</b>			
<b>5.1 Student Support</b>			
<b>5.1.1 Scholarships and Financial Support</b>			
	Name /Title of the scheme	Number of students	Amount in Rupees
Financial support from institution	Half Free ship	<b>49</b>	<b>322750</b>
Financial support from other sources			
a) National	SC	519	9103940
	ST	578	9427311
	OBC	1144	11102837
	Gaon Ki Beti	89	445500
	Vikramaditya	21	52500
	Pratibha Kiran	24	120000
	Nishaktjan	05	156875
	MMV	1416	16266700
	Minority & Central Sector	245	Sanctioned by Central Govt.
	RGNF(Zoology)	01	25000
<b>Total</b>		<b>4042</b>	<b>46675663</b>
b) International	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>
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
Remedial Coaching	17/07/17	94	Dept. of Microbiology
Remedial classes	24/11/17	50	Dept. of Pharma Chemistry
GST	26/07/17	50	(Career Guidance Cell) Lectures by: Shri Deepak Mulchandani (CA) & Shri Nikhil Gokhru(CA)
Interview etiquette	21/08/17	55	(Career Guidance Cell) Lectures by: Dr. Vinita Singh Choudahray , Govt. Hamidia College, Bhopal
Mock Interview	14/09/17	55	(Career Guidance Cell) Lecture by: Prof. Khushbu Jain
Value Addition of Agriculture Products	15/09/17	55	(Career Guidance Cell) Lecture by: Dr. Swati Barche, Assistant Prof. Agricultural College, Indore
SWOT Analysis	19/09/17	50	(Career Guidance Cell) Lecture by: Prof. Deependra Umath
Development of self Confidence	09/10/17	60	(Career Guidance Cell) Lecture by: Dr. Suwarna Tanwani
Women Entrepreneurship	10/10/17	65	(Career Guidance Cell) Lecture by: Dr. Bharti Sisodiya
Time Management and SWOT	01/02/18	62	(Career Guidance Cell) Lectures by: Dr. Kanta Mulchandani

			Dr. Suwarna Tanwani Govt. Holkar Sc. College Indore
Self Employment Schemes & Policies of Govt. for Women	10/02/18	60	(Career Guidance Cell) Lectures by: Mr. Neelesh Trivedi (Assistant Director MSME, Indore) Mr. Deepak Daryani (Industrialist, Indore)
Guru Deway Namah	10/07/17	102	Personalty Development Cell : Guru Purnma Utsav
Bharat ki Ajadi aur Kranti ki Dhara	25/09/17	80	Personalty Development Cell : Lecture by Shri Pranav Dhurve
Pt. Deendayal Upadhyayji ka Ekatmwad	26/09/17	60	Personalty Development Cell : Lecture by Dr. Subroto Guha
Granth Hamare Mitra	30/11/17	80	Personalty Development Cell : Lecture by Dr. Vikas Dave
Jan Pratinidhi/ Samajsevi/ Shashan evam Prashashan se Jude Vyktitva ko Patra	29/12/17	26	Personalty Development Cell : Patra Lekhan Compitition
Bharat ki Sanskritik Virasat	02/02/18	85	Personalty Development Cell : Lecture by Dr. Vikas Dave
Samajik Samrasata	03/02/18	60	Personalty Development Cell : Lecture by Dr. Vnayak Pandey
Pratiyogi Parikshayien evam Sachatkar ke Mhatvapurna bindu	06/03/18	80	Personalty Development Cell : Lecture by Dr. Yogendra Nath Shukla

**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
2017-18		94	05	Net: 02; SLET: 01; State Govt. Exam: 02; GMAT: 01(Microbiology)	02 (Microbiology)
2017-18			450	NET: 03; State Govt. Exam: 04; UGC JRF: 01 (For. Sc.)	
2017-18				NET: 02; State Govt. Exam: 05 (Zoology)	
2017-18					02 (Pharma)
2017-18				NET: 01; GATE: 03; Other:02 (Geology)	03 (Geology)
2017-18				SET : 07; State Govt. Exam: 06; Other:01	

				(Chemistry)	
2017-18				State Govt. Exam: 01 (Biochemistry)	
2017-18					03 (Comp. Sc.)
2017-18	Campus placement in various companies	305			52
<b>Total</b>		<b>399</b>	<b>455</b>	<b>42</b>	<b>62</b>

**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
<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

**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
Symbiotech (Open)	--	01 (Microbiology)	01 (Microbiology)
Unichem Laboratori (Open)	--	01(Pharma. Chem.)	01(Pharma. Chem.)
	--	--	03(Geology)
	--	--	03(Computer Science)
Monymaker Research & Investment Advisor Pvt. Ltd. Company (07/09/17)	50	11	
Azim Premzi Foundation (08/11/17)	40	03	
Industrial Staffing Services (India) Pvt. Ltd. Company (15/01/18)	60	04	
Concentrix Company	155	34	
<b>Total</b>	<b>305</b>	<b>54</b>	<b>08</b>

**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
2017-18	03	B.Sc.	Department of Forensic Science	Gujarat Forensic Science University, Gandhi Nagar Gujarat	M.Sc. Forensic Sc.
2017-18	01	B.Sc.	Department of Forensic Science	Rakshashakti university, Gujrat	M.Sc. Forensic Sc.

2017-18	01	B.Sc.	Department of Forensic Science	Indian Association for the cultivation of Science (IACS) Jadavpur, Kolkata	M.Sc. Applied Biology
2017-18	01	B.Sc.	Department of Forensic Science	Regional Center for Biotechnology, Pali, Faridabad Haryana	Integrated Ph.D.
2017-18	20	B.Sc.	Zoology Department	Holkar Science College	M.Sc. Zoology
2017 -18	20	B.Sc.	Dept. of Pharma Chem.	Govt. Holkar Science College	M.Sc. (Pharma Chem.)
2017-18	02	B.Sc.	Dept. of Computer Science	Govt. Holkar science College	M.Sc. (Comp. Sc.)

**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	02(Microbiology)	Not Available
	02 (Zoology)	305228, 304755
	03(Forensic Science)	40005714,40005666,40005702
	01( Geology)	207985
	<b>Total: 08</b>	
SET	07(Chemistry)	Not Available
SLET	01(Microbiology)	Not Available
GATE	03( Geology)	GG18S43040311, GG18S48010042, GG18S48007190
GMAT	01(Microbiology)	No information
CAT	--	--
GRE	--	--
TOFEL	--	--
Civil Services	--	--
State Government Services	02 (Horticulture & Seed tech.)	782819477, 23510047
	02(Microbiology)	Not Available
	02(Forensic Science)	F-1-/7/4A/2018/SN/203, 782753960
	05(Zoology)	1007500,100811876,1011337,1010776,1007807
	06 (Chemistry)	Not Available
	01(Biochemistry)	1011944
	<b>Total: 18</b>	
Any Other	02(Forensic Science) Naib Tahsildar, Patwari	Official order No: 1832/SN/09 Official order No: 1832/SN/23
	02( Geology)	1393,GG801F163
	01(Chemistry)	Not Available
	<b>Total: 05</b>	
(UGC-JRF)	01(Forensic Science)	40005714

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year		
Activity	Level	Participants
Tennis (W)	Division level	150
Volleyball(M)	District level	150
Volleyball(M)	Division level	180
Basketball(W)	Division Level	160
Employees Tournaments	State Level	180
Training camp was organized during the session for various games: Cricket, Football, Volleyball, Basketball, Kho-Kho, Kabaddi, Softball, Table-Tanis, Tanis, Weight 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
“Ek Bharat Shrestha Bharat” Programme (15-20/07/17): Poster competition	College Level	25
“Ek Bharat Shrestha Bharat” Programme (15-20/07/17): Essay writing	College Level	30
“Ek Bharat Shrestha Bharat” Programme (15-20/07/17): Slogan competition	College Level	25
Essay Writing Competition (Pharma)	College Level	01 Naushaba Sheikh
Quiz Competition(Chemistry)	National Level	01 Avinash Sanoniya
“Youth Festival 07-09/09/17”: Group Singing	College Level	25
“Youth Festival 07-09/09/17”: Solo Singing classical	College Level	04
“Youth Festival 07-09/09/17”: Solo Singing sugam	College Level	43
“Youth Festival 07-09/09/17”: Solo Singing western	College Level	03
“Youth Festival 07-09/09/17”: Instruments classical	College Level	02
“Youth Festival 07-09/09/17”: On spot panting	College Level	08
“Youth Festival 07-09/09/17”: Debate	College Level	26
“Youth Festival 07-09/09/17”: Speech	College Level	20
“Youth Festival 07-09/09/17”: Poster Making	College Level	05
“Youth Festival 07-09/09/17”: Clay Modelling	College Level	04
“Youth Festival 07-09/09/17”: Cartooning	College Level	06
“Youth Festival 07-09/09/17”: Rangoli	College Level	14
“Youth Festival 07-09/09/17”: Quiz	College Level	250

### 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
2017-18	Soft Ball	University /National	Sports			Jyoti Mourya (Silver Madal)
2017-18	Soft Ball	University /National	Sports			Jaya Mourya (Silver Madal)
2017-18	Volleyball	University	Sports			Sana Khan (Caption Univ. Team)

2017-18	Shatranj	University	Sports			Anusha Agrawal (University Representation)
2017-18	Squash Rekat	University	Sports			Akash Banodha (University Representation)
2017-18	Handball	University	Sports			Hiral Chouhan (University Representation)
2017-18	Basketball	University	Sports			Mihir Jamjut (University Representation)
2017-18	Basketball	University	Sports			Nikita Motwani (University Representation)
2017-18	Athletics	University	Sports			Vijay Rathore (Winner in Discus throw & University Representation)
2017-18	Badminton	University	Sports			Harshita Rawat (University Representation)
2017-18	Badminton	University	Sports			Ishita Malviya (University Representation)
2017-18	Football	University	Sports			Shobha Yadav (University Representation)
2017-18	Hockey	University	Sports			Ayush Chouhan (University Representation)
2017-18	Cricket	University	Sports			Abhishek Moga (University Representation)
2017-18	Hockey	University	Sports			Tejashvi Goud (University Representation)
2017-18	Kushti	University	Sports			Ajruddin Mansuri (Third Position)
2017-18	Badminton	University	Sports			Winner Team
2017-18	Table Tennis	University	Sports			Runner up Team
2017-18	“Ek Bharat Shrestha Bharat” Programme (15-20/07/17): Poster competition	College		Cultural		Ku. Fratika Modi (First), Ku. Akanksha Falwadiya (First), Vivek Garg (Second) Sachin Dawar (Third), Mahak Jain (Third)
2017-18	“Ek Bharat Shrestha Bharat” Programme (15-20/07/17): Essay writing	College		Cultural		Aniruddha Chandravanshi (First) Shivani Ahirwal (Second) Sunil Choudhary (Third)
2017-18	“Ek Bharat Shrestha Bharat” Programme (15-20/07/17): Slogan competition	College		Cultural		Kratika Modi (First) Shivani Ahirwal (Second) Sunil Choudhary (Third)
2017-18	“Youth Festival 19-22/09/17”: Group Singing	Selected for District		Cultural		Vanshika Mehta, Uttam Rai, Vaishali Puchri, Rahul Parvar, Suvarna Subhedar, Chanchal Chandora

2017-18	"Youth Festival 19-22/09/17": Solo Singing classical	Selected for District		Cultural		Suwarna Subedar
2017-18	"Youth Festival 19-22/09/17": Solo Singing sugam	Selected for District		Cultural		Karan Suryavanshi
2017-18	"Youth Festival 19-22/09/17": Solo Singing western	Selected for District		Cultural		Ritika Malviya
2017-18	"Youth Festival 19-22/09/17": Instruments classical	Selected for District		Cultural		Sourabh Gadwal
2017-18	"Youth Festival 19-22/09/17": On spot panting	Selected for District		Cultural		Shivani Ahirwal
2017-18	"Youth Festival 19-22/09/17": Debate	Selected for District		Cultural		Aniruddha Chandravanshi, Charu Rahandale
2017-18	"Youth Festival 19-22/09/17": Speech	Selected for District		Cultural		Shivansh Kumar Diwedi
2017-18	"Youth Festival 19-22/09/17": Poster Making	Selected for District		Cultural		Vivek Garg
2017-18	"Youth Festival 19-22/09/17": Clay Modelling	Selected for District		Cultural		Sachin Dawar
2017-18	"Youth Festival 19-22/09/17": Cartooning	Selected for District		Cultural		Vivek Garg
2017-18	"Youth Festival 19-22/09/17": Rangoli	Selected for District		Cultural		Versha Lowvanshi
2017-18	"Youth Festival 19-22/09/17": Quiz	Selected for District		Cultural		Praveer Joshi, Pooja Raghuvanshi, Anil Jat
2017-18	"Youth Festival 03-07/11/17": Instrumental	Selected for University		Cultural		Sourabh Gadwal

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

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



<b>5.4 Alumni Engagement</b>	
<b>5.4.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):</b>	
<i>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:</i>	
<i>Dr. Narendra Dhakad</i>	<i>President</i>
<i>Dr. R.C. Dixit</i>	<i>Vice President</i>
<i>Dr. Sanjay Vyas</i>	<i>Secretary</i>
<i>Dr. Pradeep Sharma</i>	<i>Joint Secretary</i>
<i>Dr. Suwarna Tanvani</i>	<i>Treasurer</i>
<i>Dr. M M P Shrivastava</i>	<i>Executive Member</i>
<i>Dr. R. K. Nagar</i>	<i>Executive Member</i>
<i>Dr. Monika Jain</i>	<i>Executive Member</i>
<i>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.</i>	
.	
<b>5.4.2 No. of registered Alumni:</b>	
250	
<b>5.4.3 Alumni contribution during the year (in Rupees) :</b>	
Nil	
<b>5.4.4 Meetings/activities organized by Alumni Association :</b>	
Nil	

<b>CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT</b>
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<b>6.1 Institutional Vision and Leadership</b>
<b>6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)</b>
<p><i>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.</i></p> <p><i>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 look after the various schemes, admission process, finance, career counselling for the students etc. The entire college works together for the betterment of the institution.</i></p> <p><i>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 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 A/O and the principal. Permission for exceptional proposals is put up in Governing body meeting and in front of Janbhagidari Samiti for approval.</i></p> <p><i>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 has adopted annual system at UG level.</i></p>
<b>6.1.2 Does the institution have a Management Information System (MIS)?</b>
<b>Yes/No/Partial:</b>
<b>Partial</b>
<b>6.2 Strategy Development and Deployment</b>
<b>6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):</b>
<p><b>❖ Curriculum Development:</b></p> <p><i>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 as per the need of the hour. 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.</i></p>
<b>❖ Teaching and Learning</b>

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 slow- learners.

#### ❖ **Examination and Evaluation**

The rules and regulations concerning the evaluation process 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 has 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 is 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.

#### ❖ **Research and Development**

The college has a 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:

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

<i>students focus mainly on more specific and directed objectives and investigations.</i>
<b>❖ Library, ICT and Physical Infrastructure / Instrumentation</b>
<i>The library is fully automated and has 63144 text books and 28890 reference books all bar coded, 517 books have been added in 2017-18, 3791 Journals, 350 CDs, 660 Thesis, 65114 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. 49 classrooms(3 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 college. New constructions activities are also in progress.</i>
<b>❖ Human Resource Management</b>
<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 and other related issues 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 are 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>
<b>❖ Industry Interaction / Collaboration</b>
<i>Educational Trips to Industries were organised by the 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 the syllabus and with respect to various job opportunities. Students are prepared for interviews by arranging lectures of eminent personalities. 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 were organized yearly in collaboration with this institute during the session. During the session 2017-18 department of Biotechnology and Bioinformatics visited Biotech Institute Rangwasa. Collaborative support for internship and field training from different governments, public sectors and private organizations such as GSI, ONGC, MOIL, Rajami Geo-Exploration and SS enterprises has been extended to the institute. Placement Cell 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, Sahkari Dugdh Sangh Maryadit Indore etc. Agriculture College Indore, BioRe Association Kasrawad, JNU New Delhi, MPUAST Udaipur. International institutes - Research Institute of Organic Agriculture, Switzerland.</i>
<b>❖ Admission of Students</b>
<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</i>



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.

#### **6.2.2 : Implementation of e-governance in areas of operations:**

##### **❖ Planning and Development**

The college has its own website. Each and every information is 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. Student 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](http://www.collegeholkar.org).

##### **❖ Administration**

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 and communication between AO and various departments are made through e-mail of each department/ through college website. Student 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.

##### **❖ Finance and Accounts**

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.

##### **❖ Student Admission and Support**

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.

##### **❖ Examination**

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.

#### **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 provided	Amount of support	
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)
2017-18	Workshop on “Linux, Networking, C & C <sup>++</sup>	Nil	16-17/02/18	26	Nil
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 Programme(Forensic Sc.)			04	22-23/09/ 2017	
Refresher Course(Botany)			02, Pramila Sadhav, Seemavati Sisodiya	04- 24/11/2017	
Machine learning basics and emerging trends (Computer Science)			05	01-06/09/2017	
Tr. Programme: Solar thermal Technology			01, Vinay Dashore	17/07-05/08/17	
Tr. Programme: Soft skill Development (Old GDC Indore)			02, Nidhi Parmar, Shubhangi Soni,	18-25/09/17	
Tr. Programme: Electronics & ICT Academy(HSC, Indore)			02, Nidhi Parmar, Sheetal Malviya	12-17/02/18	
Total			16		
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	<b>Health services:</b> 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: Blood donation awareness rally on 30/11/17, Vigilance awareness programme on 30/10-04/11/17, Lectures on heart awareness on 20/09/17 by J. Hezig, Germany. <b>Medical Reimbursements:</b> As per the guidelines of state Govt. medical reimbursement is given to teachers. Group Insurance Scheme is available for all teachers. Reservation scheme in admission of wards in the college of teachers is available. <b>Leave:</b> As per the rules laid down by the state government various types of leave like - casual leave, optional leave, earned leave, medical leave are available for all teachers. <b>TWF:</b> 4% Teachers welfare fund is collected and made available by the college as per the necessity of teachers. <b>Academic Facilities:</b> Computer facility with internet is available in library and for all teachers and employees. <b>Staff Quarters:</b> The college provides four residential house for the faculty members in the college campus.				

Non-teaching	<p><b>Health services:</b> 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: Blood donation awareness rally on 30/11/17, Vigilance awareness programme on 30/10-04/11/17, Lectures on heart awareness on 20/09/17 by J. Hezig, Germany.</p> <p><b>Medical Reimbursements:</b> 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><b>Leave:</b> As per the rules laid down by state government various type of leave facilities like casual leave, optional leave, earned leave, medical leave are available to all employees.</p> <p><b>Academic Facilities:</b> Computer facility with internet is available in library and for all employees.</p> <p><b>Staff Quarters:</b> The college provides fourteen residential quarters available for non teaching staff in the college campus.</p>
Students	<p><b>Health services:</b> 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 from time to time. Various awareness programmes are organized during the session: Blood donation awareness rally on 30/11/17, Vigilance awareness programme on 30/10-04/11/17, Lectures on heart awareness on 20/09/17 by J. Hezig, Germany.</p> <p><b>Teaching and Learning support:</b> 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 stationery 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><b>Free ship and Scholarship:</b> 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, Gaon ki beti, Pratibha Kiran, Vikrmaditya, Inspired and Minority scholarships are available for students.</p> <p><b>Hostel facility:</b> College has a 72 seater boy's hostel in the campus.</p>
<b>6.4 Financial Management and Resource Mobilization</b>	
<b>6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)</b>	
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 hires 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.	
<b>6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)</b>	
Name of the non-government funding agencies/ individuals	Funds/ Grants received in Rs. Purpose



Nil		Nil		Nil
6.4.3 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	Auth ority
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 supports 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.				
MOU’s and Collaboration: MOU with various institutes of national and international repute have been proposed.				
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 participant s
2017	Training Programme on Organic Farming & Mushroom Cultivation	Seed Technology & Horticulture	09 – 21/09/2017	60
2018	Conservation of environment and wild life	Dept. of Micro Biology & Forest Department M.P. Govt. Badgonda	16/02/ 2018	75
2018	Invited Talks on Applications of Free and Open Source software for Geospatial.	Department of Geology, OSGeo India	04/01/18	27

CRITERIONVII –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
Vigilance awareness ( Red Cross)		30/10 -0 4/11/17		45		10
Competition to create awareness about legal rights of women. (Red Cross Soc. & women empowerment cell: Lecture delivered by Shri Vijay Mukut Joshi)		09/11/17		50		16
Monthly programme of safety measures for girls ( NSS):(Every month Police station in- charge organized meetings with girls and suggested safety measures)		Every month		47		05
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.						
7.1.3 Differently abled (Divyangjan) friendliness						
Items Facilities		Yes/No		No. of Beneficiaries		
Physical facilities		Yes		08		
Provision for lift		No		Nil		
Ramp/ Rails		Yes		05		
Braille Software/facilities		No		Nil		
Rest Rooms		Yes		08		
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
2017 - 18	--	01	30/11/17	Blood donation awareness rally (Red Cross)	To create awareness in the society about Blood Donation	20 + 05

2017 - 18	--	01	(30/10 - 04/11/17)	Vigilance awareness (Red Cross)	Vigilance Awareness programme organized	50+05
2017 - 18	--	01	20/09/17	Lecture on awareness about keeping healthy hear (Red Cross & Lions club)	Lecture delivered by J. Hezig, Germany about the heart awareness to the society	50+05
2017 - 18	--	01	24/09/17	Tree plantation on NSS day (NSS)	Plantation programme in college campus to protect environment	120+05
2017 - 18		01	03/10/2017	Aastha Old age Home visit (Pharma)	Awareness regarding diabetes	17+3
2017 - 18	01	--	Continuous process	Scenic Beauty	Maintenance of natural geography	05 + students
2017 - 18	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
2017 - 18	01	--	Continuous process	Facilitate to students for city bus concessional pass	College situated in the city and is properly connected with BRTS roads	students
2017 - 18	01	--	Continuous process	Facilities of hostels	Various private hostels and governments post metric hostels are at the walking distance from the College	students
2017 - 18	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
2017 - 18	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
2017 - 18	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	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.
<b>7.1.6 Activities conducted for promotion of universal Values and Ethics</b>		
Activity	Duration (from--to--)	Number of participants
Blood donation awareness rally ( Red Cross Soc. & Biochem.)	30/11/17	25
Vigilance awareness ( Red Cross Soc. & Biochem.)	30/10 – 04/11/17	55
Competition to create awareness about legal rights of women: Lecture delivered by Shri Vijay Mukut Joshi ( Red Cross Soc. & women empowerment cell)	09/11/17	66
“Sadbhavna day”: Saphat graham and sadbhavna rally.( NSS )	20/08/17	186
“Komi ekta day”: lecture and easy writing (NSS)	22/11/17	140
Voter's Awareness Program (District Election Office Indore (M.P) & For. Sc.)	25/01/18	18
Swachh Bharat Abhiyan(Dept. of Microbiology & Municipal Corporation, Indore)	12 -13/01/18	198
Interview etiquette :(Career Guidance Cell) Lectures by: Dr. Vinita Singh Choudhary , Govt. Hamidia College, Bhopal	21/08/17	55
Mock Interview : ( Career Guidance Cell) Lecture by: Prof. Khushbu Jain	14/09/17	55
Value Addition of Agriculture Products: ( Career Guidance Cell) Lecture by: Dr. Swati Barche, Assistant Prof. Agricultural College, Indore	15/09/17	55
Development of self Confidence: ( Career Guidance Cell) Lecture by : Dr. Suwarna Tanwani	09/10/17	60
Guru Deway Namah : Personalty Development Cell : Guru Purnma Utsav	10/07/17	102
Bharat ki Ajadi aur Kranti ki Dhara : Personalty Development Cell : Lecture by Shri Pranav Dhurve	25/09/17	80
Pt. Deendayal Upadhyayji ka Ekatmwad : Personalty Development Cell : Lecture by Dr. Subroto Guha	26/09/17	60
Granth Hamare Mitra : Personalty Development Cell : Lecture by Dr. Vikas Dave	30/11/17	80
Bharat ki Sanskritik Virasat : Personalty Development Cell : Lecture by Dr. Vikas Dave	02/02/18	85
Samajik Samrasata : Personalty Development Cell : Lecture by Dr. Vnayak Pandey	03/02/18	60
<b>7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)</b>		
To reduce pollution and create a eco-friendly campus College is working in various ways.		
<b>Energy conservation:</b> Large size windows in the classrooms for good ventilation, labs are mostly installed with CFL bulbs to minimize the expense of electricity.		
<b>Water harvesting:</b> 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 buildings.		
<b>Efforts for Carbon Neutrality:</b> There is no major carbon release; AC facilities are available at the Principal's office, Yashwant Hall, Conference hall and the Examination Department.		
<b>Plantation:</b> 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.

## 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 paper, 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.

1. Sampling of different water sources- tube well and R.O drinking water units on campus
2. Coliform bacteria- Indicate the presence of microorganisms in the water that are potentially



harmful to human health.

3. 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. While out of 15 Samples 05 samples shown contamination by Coliforms in the session 2017-18.

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

**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 timely 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:-

1. Central valuation of UG A/B's with the MOI by the setter.
2. Valuation of PG A/B's by the paper setter
3. Spot moderation (On the day of Examination)
4. MOI prepared by the paper setter
5. Showing valued A/B's to the students in front of parent's, Subject expert and HOD of the subject concerned
6. Revaluation of A/B's
7. Displaying the answer books of the Toppers
8. Coding of A/B's
9. Micro scrutiny of A/B 's by subject expert
10. Computerized Tabulation
11. In house printing of non confidential material
12. Hologram sticking on Mark sheet
13. Merit Certificate to Toppers

14. Revaluation in main & ATKT Exam
15. M. Phil admission through Entrance Test followed by interview
16. UG, PG admission through online system
17. Exam fees deposition Online
18. Special exam for those student who have represented in National/ state level activities of NCC/NSS etc.
19. Preparation of transcripts for students going abroad for further studies.

#### **From 2017**

1. Exam form can be downloaded from the college website from 2017
2. 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.
3. From 2017 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)**

#### ***“Biodiversity and Concentration of Airborne Fungi in different locations of Indore city.” :***

*To investigate the Air mycoflora of different outdoor environment of Indore city and find their role in allergic diseases. This practice done by the college. To perform the activity following steps have been taken:*

- i. Selection of sampling sites in Indore city.*
- ii. To perform Air monitoring in selected locations by passive sampling method.*
- iii. Collection of soil samples from selected locations.*
- iv. Calculation of CFU of Air samples and soil samples.*
- v. Isolation and identification of bacteria and fungi.*
- vi. Assessment of Antibiotic resistant strains of bacteria.*

*The study of aero mycoflora of particular region provides a clear view about interaction of fungal spores in the form of disease on plants and also occurrence of allergy in human being. It is of great clinical value to know the identity of the dominant airborne fungi in a particular area, as the fungal population varies from one place to another. Fungi live as saprophytes on organic material or as parasites (mainly plant pathogens), so the majority of fungal spores in the air outdoors come from farms, forest stands and decomposing plant matter. When sensitive individual inhaled the aerial fungal spores, allergic symptoms are noticed. In order to identify the dominant fungi, an aero mycology investigation had been conducted in the atmosphere of Indore.*

*In 2017-2018 the outdoor environment of Indore city was investigated for the occurrence and biodiversity of fungal flora which may be responsible for the allergic diseases and also find out the concentration of Air borne fungi after Swachh Bharat Abhiyan. Department of Microbiology, Govt. Holkar Science College, Indore had conducted a study which included microbiological assessment of air to monitor the presence of several species of fungi that are effectively used as pollution indicators for detecting the faecal contamination, human activity waste, heavy metals and crude oil. This study was conducted to evaluate the impact of Swachhta Abhiyan on local environment of Indore.*

*Present study was carried out between the months of December 2017- February 2018. Total 12 outdoor locations were selected as sampling sites which includes Temple campus, crowded areas, public places of Indore city. Air sampling of different locations was done by using passive sampling method (Settled plate method). Meterological parameters effecting fungal distribution and diversity were also monitored. Different fungi were identified on the basis of colonial morphology and microscopic studies by using standard literature. Then the Petri plates were brought into the laboratory and percentage*



*frequency and percentage contribution of the total fungal flora were assessed.*

*% Frequency = (No. of observations in which a species appeared / Total no. of observations) X 100*

*% Contribution = Total No. of colonies of species in all the observations taken together / Total No. of colonies in all the species X 10*

*Total 155 colonies of fungi belonging to 7 different genera were studied from different locations of Indore. The highest prevalence of Aspergillus sp. and Alternaria sp. were found in all selected sampling sites which are one of the known causes of allergic problems. The prevalence of fungal spores found more in the month of December and January as compared to February which proves that low temperature favours the growth of fungi.*

*The students were divided under team leaders who performed area monitoring exposing microbiological agar media plates at the allotted locations of Indore.*

*This practice helped in making the students participated in solving the present issues of environmental changes. It aims in making the students aware about their environment, their social responsibilities as science students and would help them in continuing these practices for the best future of the coming generations as well.*

## **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 adopted CBCS system at PG level.*
- *To modernize labs with recent apparatus and established separate labs for UG, PG and 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 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 for promoting our rich cultural heritage.*
- *To extend the library with cubical and reading rooms.*
- *To construct a separate unit for central valuation.*
- *New canteen facility and gym should be established.*
- *To construct separate well equipped departments with separate cubicles along with computer and internet facility for the teachers, separate PG and M.Phil. Class rooms, bigger labs and independent departmental libraries.*

*(Dr. T. Abbasi)*  
*(Member IQAC)*

*(Dr. Vivek Raich)*  
*(Member IQAC)*

*(Dr. R.C. Dixit)*  
*(Member IQAC & AO)*

*(Dr. R.K.Sharma)*  
*(Co-ordinator IQAC)*

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*(Principal & Chairperson IQAC)*

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