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

(AQAR of Academic Year July 1, 2019 to June 30, 2020)

# Part - A

	Data of the Institution								
1.	Name of the In	stitution		Govt. Holkar (Model, Autonomous) Science College, Indore					
•	Name of the H	ead of the insti	tution	Dr. Suresh T. S	Silawa	t			
•	Designation			Principal					
•	Does the institu	ution function f	from own	Yes					
•	Phone no./Alte	rnate phone no	).	0731-2446806	7 0731	-2464074			
•	Mobile no.			9302100611					
•	Registered Em	ail		principalhsc@	rediffn	nail.com			
•	Alternate Emai	il							
•	Address			AB Road, Bha	nwark	ua			
•	City/Town			Indore					
•	State/UT			M. P.					
•	Pin Code			452001					
2.			Institu	utional status					
•	Autonomous S	\ <b>A</b>		01/09/1989					
	of Conformant		s Status)						
•	Type of Institu			Co-education					
	education/Men		T T 1	** 1					
•	Location : Rura		Urban	Urban	(D) 1	G 16 6' ' (D 4' 11 )			
•	Financial Statu					Self-financing (Partially)			
•	Name of the IQ			Dr. R.K.Sharma					
	ordinator/Direct Phone no. /Alte	2	0731-2446806	/ 0721	2464074				
•	Mobile Mobile	ernate phone no	<u> </u>	9425081367	/ 0/31	-2404074			
	IQAC e-mail a	ddraec		IQAC_hsc@re	diffma	il com			
-	Alternate Emai			raj_rma@yaho					
3	Website address		http://www.col						
•	Web-link of the					tar.org/AQAR2019-20.doc			
4	Whether Acade		nrenared	Yes	2.1011				
	during the year	?							
•	If yes, whether Institutional we		in the	Yes		(Annexure I)			
•	Web link			http://www.col	legeho	lkar.org			
5.	Accreditation I	Details		I					
Cycle	Grade	CGPA	Year of	Accreditation		Validity Period			
1 <sup>st</sup>	***			2001	from:	05.11.2001 to: 04.11.2006			
2 <sup>nd</sup>	В	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 Establis	hment of IQAO	C:DD/MM	/YYYY	•	01/11/2003			

	al Quality Assurance							
	ity initiatives by IQA		ne y					
IQAC	tle of the quality initia	ative by		Date & du		Number of participants/beneficiaries		
Regular	meeting of IQAC			20/07/1	19		15	
Regular	meeting of IQAC			25/02/2	20		15	
College	Participated in NIRF	,		27/01/2	20		VIRF Ran 017(101-	_
College	Participated in AISH	E		28/02/2	20			
	k from all stakeholde l, analysed and used		ollected and a ed for improve	•				
improve	•	,01		rious departm				
	de the list of Special S		errec	d by Central/S		ment-U	GC/ CSII	R/ DST/
	MR/TEQIP/World B		f UC		** *			
Institution Departm	on/ ent/Faculty	Scheme		Funding agency	Year of aw duration	ard with	1	Amount
	Model			State Govt.	05	5/07/85		
A	Autonomous			UGC	09/07/8	9 to till	now	
Colle	ge of Excellence			State Govt.	12/07/1	18 to till now		
9.	Whether composition guidelines	on of IQAC	as per latest NAAC				Yes	
•	upload latest notific	cation of for	mation of IQAC			Uploaded on Website (Annexure II)		
10.	No. of IQAC meeti	ngs held du	ring the year				02	
•	The minutes of IQA decisions have been website Yes/N and action taken rep	n uploaded o No(Please up	on tl	he institutiona	1		Yes (Annexum	
11.	Whether IQAC reco	eived fundir	_	•	_		No	
•	If yes, mention the						Nil	
12.	Significant contribu				the current y	ear (max	ximum fiv	ve bullets)
National Workshop on Intellectual Property Rights (12-13/03/20); International Conference on "Recent Advances in Life Science for Betterment of Human Health" (ICRALBEH-19) (14-15/12/19); One week workshop on "Qualitative & Quantitative Analysis" (10-15/10/19); One week Workshop on "Research Methodology" (16-20/12/19) and various webinars between April to June 20 were organized during the session through different departments of the college.								
*	Two workshops: "I "Instrumentation through different de	Techniques" epartments o	" (( of th	06-18/01/20) ne college.	were organ	nized di	uring th	e session
*	Three training prog for Entrepreneursh on "Mushroom of employment orient	ip Developr Cultivation	men for	t'' (22/01-14/0 r self emplo	02/20); Hand coyment" (1	ds on Tr 0-11/10	raining P /19); Sl	rogramme hort term

	during the session through different departments of the college.
*	More than 227 faculties were participated in various seminars/workshops, Approx. 05
	papers were presented by the faculties in various seminars, 14 candidates awarded
	Ph.D. degree under the guidance of faculty members, 01 major project is ongoing,
	About 82 research papers are published by the faculty member in various peer-
	reviewed journals/proceedings during the session.
*	CSIR NET CLASSES: Dept. of Biotech.& Bioinfo. (01/09-01/12/19); Various
	entrepreneurship development programme and skill oriented programme were
	organized during the session.

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

Quanty Ennancement and the outcome acme	•
Plan of Action	Achievements/Outcomes
Academic programmes proposed:	Academic programmes implemented:
(i) To start B.ScB.Ed., MBA, B.Sc. (Onours)	(i) B.Sc. (Onors) in Mathematics and
courses, M.Sc. in Genetics. (ii) To organize academic tours.	Physics are under proposal.
(ii) To organize academic tours.  (iii) To organize Lectures /seminars	(ii) Four national /International seminar
/workshop/symposium.	/conference/Workshops and various
(iv) To start new certificate courses.	webinars were organized during the session through different departments of
(v) To start New award if any.	the college.
(vi) To motivate faculties for Research activities.	(iii) Three Training/Internship Programme
(vii) Science Exhibition. (viii) Remedial Classes.	and various other programmes for students were organized during the session through different departments/Cells of the college during the session.
	(iv) Bhuvisanwad Programme by Dept. of Geology on 15-16/11/19.
	(v) More than 227 faculties were
	participated in various seminars/workshops. Approx. 05 papers were presented by the faculties in various
	seminars during the session.
	(vi) 14 candidates awarded Ph.D. degree under the guidance of faculty members during the session.
	(vii) 01 major project is ongoing during the session.
	(viii) About 82 research papers were published by the faculty member in various peer-reviewed journals /proceedings.
	(ix) Switched on annual system at UG level
	so that all syllabi at UG(B.Sc.)III Year
	level are revised and introduced.
	(x) Remedial classes were organized for
	slow learners.
Infrastructure development proposed:	Infrastructure development implemented :
(i) To develop separate blocks for each	(i) Six new classrooms are under
department.	construction.
(ii) To construct extra classrooms. (iii) To construct new Laboratories	(ii) Fifteen new labs are under construction.
(iii) To construct new Laboratories (iv) To renovate Playgrounds	(iii) Construction of two buildings for computer science department and
(v) To renovate Flaygrounds (v) To enrich the Library.	examination are in progress.
(vi) Up gradation of Canteen Facility.	(iv) New canteen and gym buildings are under construction.
	(v) First floor of on Library is constructed

- and Library building renovated during the session.
- (vi) Old classrooms in Red-Building, and in Yashwant Hall, Language lab, Dept. of For. Sc.& Dept. of Pharma Chemistry are renovated during the session.
- (vii) New building construction for Dept. of Geology is under process.
- (viii) Play grounds were renovated during the session.
- (ix) Sheds are installed in front of Office, and back side of the office and on front of departments during the session.
- (x) NSS wing is renovated during the session.
- (xi) One store/workshop hall is constructed during the session.

#### Extension/Value added programmes proposed:

- (i) To start cleanliness drive in the college and to make it a polythene free zone.
- (ii) Yoga Karyakram for students.
- (iii) Gender equality programmes, self-defence programmes etc
- (iv) Subject like Moral Values should be incorporated as compulsory subject in the curriculum.
- (v) To organize lecturers related to Moral values, spirituality, national integration, Indian tradition and culture etc.
- Social Welfare Activities: Blood donation (vi) camp, Organs/Body donation programme, Awareness about disease/health like: AIDS, Personal hygiene pr. Health check up camps-Eye testing, Bone density, Lipid profile etc., Vector born disease awareness camp, clean environment programme, Eradication of child labourers, differentially able Day, Women's Day & "World Diabetes and awareness campaign, programmes for women empowerment, cancer/ **Breast** Cancer awareness programme, workshop on violence against women, tree plantation.
- (vii) Civic Development Activities: Road safety programmes-Traffic rule, Awareness about RTI, Awareness about Gender sensitivity. Voting awareness campaign

#### Extension/Value added programmes implemented:

- (i) The students participated in the various programmes held on the occasion of Independence Day, Republic day and Gandhi Jayanti.
- (ii) The NCC cadets of the college performed various activities like Tree plantation, Nukkad Natak etc during the session.
- organized various (iii) The NSS units programmes like: Sadbhavana Divas (20/08/19),Plantation-Hariyali Mahotsav (11/08/19), Rally against "Food Adulteration" (24/08/19) Women Empowerment Session JUDO/Karate "Kaumi Ekta" Shapath" (07/09/19). Programmes on AIDs (19/11/19).21/11/19, 28awareness (20/11/19, YUVADiwas 30/12/19), Rastriya celebration (12/01/20), Blood donation camp (01/12/19 at MY Hospital & 30/12/19 in college campus.), Eye Checkup camp (17/11/19), NSS camp (21-27/11/19) etc during the session.
- (iv)The NCC units organized various programmes like: PolioAbhiyaan (16/10/19),Kagil Vijay Divas (26/07/19), Painting Programme by cadets: on Gandhi Jayanti (11/07/19), Traffic Control Programme (15/07/19), Tikakaran motivation to people, Assist to Medical Staff. Cleanliness Drive(Sawccha Bharat) (14/12/19),Awarding Ceremony (24/11/19), Visit to Heritage (Kastoorba Gram) (29/11/19)
- (v) The Red Cross Society organized:
  Plantation on Kargil Martyr (31/07/19),
  Blood Donation Camp (30/12/19),
  Polythene Free Campus Prog.
  (26/01/20), Lecture on scientific basis of
  cancer awareness and training on CPR
  (07/02/20), Health Checkup camp on
  women day (07/03/20), Poster

competition on AIDS Awareness (17/01/20), Poster competition on cancer Awareness (04/02/20), Visit to Musakhedi Slum area and Nutrition Awareness (08/08/19), Vigilance Awareness Week (29/10-03/11/19 etc during the session.

- (vi) Dept. of Botany organized: National AIDS Control Program, Environment Awareness programme on air pollution (30/07/19), Plantation Activities: Botanical Garden (30/08/19), Tagging of Plant (22/09/19), Visit to Jyoti Niwas old age home (14/01/20), Vermi compost Training: Kasturba Gram (25/01/20)etc.
- (vii) Dept. of Pharma organized: Poster competition: Route of drug Administration and dosage form (30/12/19), Quiz Competition (14/01/20), Astha Old Age Home Visit (14/11/19), Alumni Meet (02/11/19) etc
- (viii) Dept. of Microbiology organized:
  Research Studies on Unknown Foul
  Odour of Indore City" (Nov.-Dec. 19),
  Excursion trip: "Parenteral drugs pvt.
  Ltd., Mandlehwar" (22/01/20), PTA
  (04/03/20), Covid-19 Awareness
  Programme (04-06/06/20)etc.
- (ix) Dept. of Biochemistry organized: Kargil Divas Calibration: Basket Ball Complex, Indore (28/07/19), Programme on Health and Nutrition (16/09 12/10/19), Alumni Meet (03/11/19, PTA (15/02/20), Mushroom Cultivation training (06/03/20), Online Quiz: (Nutrition and Immunology) (03/06-09/06/20) etc.
- (x) Dept. of Geology organized: Gosthi-Jal Evam Paryavaran Sankat, Samadhan and Upay (06/08/19).
- (xi) Dept. of Biotech & Bioinfo. Organized:
  Plantation: 01/08/19, CSIR NET Classes:
  01/09-30/11/19, Parents Teacher
  meeting: 02/11/19, A visit to Jeevan
  Shala Visharjan Ashram (slum
  area):02/11/19, Science Olympiad:
  29/02/20 etc.
- (xii) For drinking water "Microbial analysis of Water samples from different locations on GHSC campus" is conducted by Department of Microbiology during the session.
- (xiii) Various programmes organized by Eco Club & Dept. of See & Horticulture.

Skill oriented and student mentoring programmes proposed:

- (i) To organize lectures on entrepreneurship skill development.
- (ii) To organize lectures on personal grooming, personality development and attitude building. This will help the students to face

Skill oriented and student mentoring programmes implemented:

- (i) Entrepreneurship development programme is taught at the UG level as a separate course.
- (ii) Carrier Guidance Cell organized various

- placement agencies coming to the institution.
- (iii) To organize career fair in the college.
- (iv) To organize lectures on the use of social networking sites and on awareness for cyber crime.
- (v) Job oriented projects.
- (vi) Entrepreneurship development programme for self employment.
- (vii) To organize Workshop for improving "Communication Skill".
- (viii) Organize Zero hour classes and Bridge classes.
- (ix) To organize Remedial classes.
- (x) To organize Classes for the preparation of competitive examinations.
- (xi) To organize talent search examinations.

programmes: *'SWOT'* (29/07/2019); Lecture on 'C.V. Writing' (30/09/2019); Lecture on 'Mock Interview (Practical) (04/10/2019): (व्याख्यान) 'राजीव गाँधी का आई.टी. – कम्प्यूटर में अग्रणी देश हो अपना (निबंध) छात्रों में आई.टी. से सबंन्धित कार्य क्षेत्र पर चर्चा (परिचर्चा)(11/11/2019); Lecture on "Career Aspects of Bio Sciences Students in Conservation of National Parks" (12/12/2019); Lectures "Career Opportunities in Govt. Sector" & "Assessment of Aptitude through hand writing" (30/01/2020); Yoga Meditation (23/09-14/10/19); Lecture on नैतिक मुल्य और विद्यार्थी जीवन'' (07/11/2019); Personal Counseling and Mentoring (23/09-14/10/19) etc.

- (iii) Personality Development Cell organized:
  Rashtriy Aandolan (21/08/2019);
  Aatankvad Samasya Evam Samadhan (
  09/09/2019); Gandhi Evam
  Aatmnirbharta (10/10/2019);
  Gurunanak ke Vichar (27/11/2019);
  Bangladesh Ke Kranti (28/01/2020) etc.
- (iv) Various skill oriented course organized by various departments: Hands on Training on "Programme on Mushroom Cultivation" for self employment (10 -11/10/19) by Dept. of Horticulture & Technology; Tr. Prog. on "Advanced Agro *Techniques* Entrepreneurship Development" (22/01-14/02/20) by Dept. of Botany & Carrier Guidance Cell; Tr. Prog. on "Organic Farming for Sustainable. Development and Conservation of Environment" (Carrier Guidance Cell & Dept of Seed & Hort.)( 28/02-03/03/2020); Lectures on "Bio Diversity Conservation Through a lens of a Forester", "Technology for Avian Studies", "Wild Life Sustainability and Management", "Zoo Management", "Biodiversity by (Biochem & Carrier Guidance Cell)(02/03/2020); Short term employment oriented Tr. On "Health and (16/09-12/10/19 & 02-Nutrition" 31/12/19) by Dept. of Biochem. & Career Guidance Cell; Lecture on career opportunities in Geology (Carrier Guidance Cell & Dept of Geology)( 26/11/2019); Lectures "Job Opportunities in Questioned Documents" & "Forensic Examination of Blood, **Bloodstains** and BloodGrouping System" (Carrier Guidance Cell & Dept of For. Sc.)( 15/01/2020); Personality Communication **Development** & Programme (Career Guidance Cell &

Dept. of Chemistry)( 23/09-14/10/19); Language Lab (Career Guidance Cell & Dept. of Chemistry)( 23/09-14/10/19); Computer Hardware, **Equipment** Repairing fabrication training Workshop (Career Guidance Cell & Dept. of Electronics)(18/11-16/12/19); Tr. On Basic Programming with Python(Career Guidance Cell & Dept. of Electronics)(2019-20); Tr. On Embedded System Design based on Aurdino (Career Guidance Cell & Dept. of Electronics)( 2019-20) etc.

- (v) Remedial Classes organized by Dept. of Zoology, Pharma Chemistry, Chemistry and English for slow learners during the session.
- (vi) Placement cell organized Meetings with HR's of Various Companies.
- (vii) 1605 UG and 248 PG students of last semester have carried out 60 hours job oriented projects/internship.
- (viii) Total eight companies visited for campus placement and 64 students are placed, while 01 students placed off campus and 20 students cleared various competitive exams during the session.

Co-curricular/community extension programmes proposed:

- (i) Physical Activities: YOGA, Judo Karate, sports activities: Institutional/ Division/state/National/International sport competitions.
- (ii) Aesthetic and Cultural Activities: On the spot drawing & painting competition, Group singing, Solo singing/ rhymes. Rangoli competitions.
- (iii) Literary Activities: Inter-House competitions, House meetings, English recitation, Hindi calligraphy, English calligraphy, Hindi & English elocution (pronunciation).
- (iv) Annual functions and Youth festivals.

Co-curricular/community extension programmes implemented:

- (*i*) Dept. of sports organized various competition during the session: Basketball(W) (08-09/11/19) (Division Level), Tennis(M)(21/12/19) (Division Level), Tennis(M)(Jan. 20) (Division Level), Teachers/Employee Sports(Feb. 20) (Division Level), Volleyball(M) (09-10/11/19) (District Level), Volleyball(W) (14-15/10/19) (District Football(M) (02-05/11/19) (District Level), Borans Cup: Cricket(District Level)
- (ii) Dept. of sport organized Training camp of various games: Volleyball, Basketball, Softball, Chess, Table-Tennis etc during the session.
- (iii) Department of sport organized Judo Karate training camp for girls in self defence. Yoga training camp during the session.
- (iv) Yoga Karyakram Surya Namaskar on Vivekanand Jayanti was organized by sports Department.
- (v) On the occasion of annual function various sports activities organized by the department of sports.
- (vi) Many cultural and literacy activities organized by the institution during the session.

	(vii) Annual functions and youth festival were organized during the session.  (viii) Many students achieve awards/Meda during the session (Listed in 5.3.1)						
<b>14.</b> Whether the AQAR was placed before statutory	body? No						
Yes /No							
Name of the statutory body: Nil	Date of meeting(s):	Nil					
<b>15.</b> Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning? Yes/No: <b>Yes</b>							
NAAC	Date: 07 - 09/12/2015						
Autonomy Team	Date: 12 - 13/05/2017						
<b>16.</b> Whether institutional data submitted to AISHE	Yes						
Year: <b>2019-20</b>	Date of Submission: 28/02/2020						
17. Does the Institution have Management Informati	tion Yes (Partially)						
System?							
If yes, give a brief description and a list of modules currently operational. (Maximum 500							

words):

Management information system is a system formed and developed by the institution for updating, co-ordinating, analysing and controlling various information in the organization. College has Partially Management Information System.

In Govt. Holkar Science College the IT cell of the examination department manages and uploads news and information from time to time on the college website. The IT cell has created student's profile where all the details of the students seeking admission in the college are readily available. The students can see their results, fill the examination form can print out their admit cards etc. online. In addition to this the IT cell also update the details given to it by various Departments like - information regarding workshops, seminars and conferences etc. organized and also those which will be organized in future. The IT cell displays and uploads all the official notices on the website. In a nutshell the objective of MIS is to share notices, results, admission process, ongoing activities etc. with the students, faculty members and all those who want to seek information about the college.

The college has a well-defined administrative set up for the smooth functioning of the institution. The administrative procedure and fee structure are given in the college brochure and they are also displayed on the college website- www.collegeholkar.org. This information can also be sought directly from the college inquiry office. While the principal as the head of the institution remains at the helm of all the academic and administrative affairs in the college, the administrative officer serving as a link between the principal and the other staff members facilitates day to day administration of the institution. Every teaching department is headed by a senior professor entrusted with the administrative and academic responsibilities of that particular department. There are formed various committees comprising senior and experienced members of the staff for a number of activities taking place on the campus through the year. Constant monitoring is done to avoid any slackness in the administration.

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.

Admission to the college is based on merit basis is done online through a central agency appointed by the Dept. of Higher Education Govt. of MP.

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.

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.

The students passing out from the college have to fill a feedback form. It helps to trace the location and to keep the data of the students as they give their details regarding the college they have taken admission or sought jobs at various companies.

CRITERION I-CURRICULAR ASPECTS							
1.1 Curriculum Design and Deve	lopment						
1.1.1 Programmes for which syllal	bus revision was o	carried out during the Academic year					
Name of programme	Programme Code	Dates of revision					
UG - B.Sc.	U001	Chemistry(20/06/19),					
		Biotechnology(03/06/19),					
		Computer Sc.(12/07/19),					
		Zoology(18/10/19),					
		Botany(22/06/19),					
		Bioinformatics(03/06/19),					
		Bio Chemistry(06/07/19),					
		Microbiology(25/06/19),					
		Pharma Chemistry(17/07/19),					
		Horticulture(05/07/19),					
		Seed Tech.(06/07/19),					
		Forensic Sc. (06/08/19),					
		Geography(27/06/19),					
		Fisheries(28/05/19),					
		Geology(21/06/19),					
		Physics(05/07/19),					
		Electronics(24/06/19), Mathematics(08/07/19),					
		Statistics(31/07/19),					
		Economics(31/07/19),					
		English Lang. (20/07/19),					
		Engrish Eding. (20/07/19), Entr. Dev.(20/07/19),					
		Hindi Lang. & Moral Value(10/07/19).					
UG – BCA	U002	12/07/19					
PG - M.Sc. – Bio Chemistry	P003	06/07/19					
PG - M.Sc. – Bio Technology	-do-	03/06/19					
PG - M.Sc. – Botany	-do-	26/06/19					
PG - M.Sc. – Chemistry	-do-	20/06/19					
PG - M.Sc. – Computer Sc.	-do-	12/07/19					
PG - M.Sc. – Fisheries	-do-	28/05/19					
PG - M.Sc. – Forensic Sc.	-do-	06/08/19					
PG - M.Sc. – Geology	-do-	21/06/19					
PG - M.Sc. – Mathematics	-do-	08/07/19					
PG - M.Sc. – Microbiology	-do-	25/06/19					
PG - M.Sc. – Pharma. Chemistry	-do-	17/07/19					
PG - M.Sc. – Physics	-do-	05/07/19					
PG - M.Sc. – Statistics	-do-	31/07/19					
PG - M.Sc. – Zoology	-do-	18/10/19					
M.Phil. – Bio Chemistry	P004	06/07/19					
M.Phil. – Bio Technology	-do-	03/06/19					
M.Phil. – Botany	-do-	26/06/19					
M.Phil. – Chemistry	-do-	20/06/19					
M.Phil. – Comp. Sc.	-do-	12/07/19					
M.Phil. – Zoology	-do-	18/10/19					

	1.1.2 Programmes/ courses focused on employability/ entrepreneurship/ skill development during the Academic year							
Programme with Code	Date of Introd uction	Course with Code	Date of Introducti on					
All programmes listed in 1.1.1 are employable	July 19	All courses are employable. Some of them are listed below. For detailed nomenclature of courses visit our website <a href="https://www.collegeholkar.org">www.collegeholkar.org</a> (Annexure IV)	July 2019					
		Biochemistry at UG(101-301)	July 2019					
		Bioinformatics at UG(102-302)	July 2019					
		Biotechnology at UG(103-303)	July 2019					
		Computer Sc. at UG(106-306)(153-155, 253-255, 352-355, 451-456, 552-554, 651-654), 310	July 2019					
		Electronics at UG(107-307)	July 2019					
		English Lang. at UG(108-308),156	July 2019					
		Hindi Lang. at UG(109-309),256	July 2019					
		Geology at UG(111-311)	July 2019					
		Horticulture at UG (112-312)	July 2019					
		Fisheries at UG(113-313)	July 2019					
		Mathematics at UG(114-314) (151,251,351,451,551)	July 2019					
		Microbiology at UG(115-315)	July 2019					
	Pharma Chemistry at UG(116-316)							
		Seed Tech. at UG(118-318)	July 2019					
		Statistics at UG(119-319)(152,252)	July 2019					
		Forensic Sc. at UG(122-322)	July 2019					
		Entrepreneurship Development at UG (110,356,456)	July 2019					
		Biochemistry at PG(BC11-14,21-24,31-34,41-44)	July 2019					
		Biotechnology at PG(BT11-14,21-24,31-34,41-44)	July 2019					
		Botany at PG(BO11-14,21-24,31-34,41-44)	July 2019					
		Chemistry at PG(CH11-14,21-24,31-34,41-44)	July 2019					
		Computer Sc. at PG(CS11-14,21-24,31-34,41-44)	July 2019					
		Fisheries at PG(F11-14,21-24,31-34,41-44)	July 2019					
		Forensic Sc. at PG(FS11-14,21-24,31-34,41-44)	July 2019					
		Geology at PG(G11-14,21-24,31-34,41-44)	July 2019					
		Mathematics at PG(M11-15,21-25,31-35,41-45)	July 2019					
		Microbiology at PG(MB11-14,21-24,31-34,41-44)	July 2019					
		Pharma Chem. at PG(PC11-14,21-24,31-34,41-44)	July 2019					
		Physics at PG(P11-14,21-24,31-34,41-44)	July 2019					
		Statistics at PG(S11-14,21-24,31-34,41-44)	July 2019					
		Zoology at PG(Z11-14,21-24,31-34,41-44)	July 2019					
	60 hours job oriented project/internship is mandatory for the students of last semester/year at UG and PG level.							
1.2 Academic	Flexibility							
	•	courses introduced during the Academic year.						
Programme/Co			Date of Introduction					
Molecular Bio	logy (Pane	er-I) UGIII	06/07/19					
		Environmental Biochemistry (Paper-II) UGIII	06/07/19					

Displaying (Decemb) HCIII	02/06/10
Biostatistics (Paper-I) UGIII	03/06/19
Mathematics for Biological Science (Paper-II) UGIII	03/06/19
Molecular biology and Genetic Engineering (Paper-I) UGIII	03/06/19
Applied Biotechnology (Paper-II) UGIII	03/06/19
Plant Physiology & Biochemistry (Paper-I) UGIII	22/06/19
Cell Biology Genetics & Biotechnology (Paper-II) UGIII	22/06/19
Physical Chemistry (Paper-I) UGIII	20/06/19
Inorganic Chemistry (Paper-II) UGIII	20/06/19
Organic Chemistry (Paper-III) UGIII	20/06/19
Database Management System (Paper-I) UGIII	12/07/19
Operating System Concept (Paper-II) UGIII	12/07/19
Thyristors, IC technology, Microprocessor & Electrical Motors (Paper-I) UGIII	24/06/19
Communication Electronics (Paper-II) UGIII	24/06/19
English Language (Paper-I) UGIII	20/07/19
Hindi Language (Paper-II) UGIII	10/07/19
Computer Concept (Paper-III) UGIII	12/07/19
Palaeontology and Stratigraphy (Paper-I) UGIII	21/06/19
Earth resources and Applied Geology (Paper-II) UGIII	21/06/19
Soil Productivity & Agro Forestry (Paper-I) UGIII	05/07/19
Processing of Horticultural Crops & Value addition (Paper-II) UGIII	05/07/19
Fishery Economics & Extension Education (Paper-I) UGIII	28/05/19
Limnology and Fish Productivity (Paper-II) UGIII	28/05/19
Linear Algebra & Numerical Analysis (Paper-I) UGIII	08/07/19
Real and Complex Analysis (Paper-II) UGIII	08/07/19
Optional (Paper-III) UGIII	08/07/19
Applied & Environmental Microbiology (Paper-I) UGIII	25/06/19
Immunology & Medical Microbiology (Paper-II) UGIII	25/06/19
Medical Chemistry - II (Paper-I) UGIII	17/07/19
Instrumental Analysis (Paper-II) UGIII	17/07/19
Quantum mechanics & Spectroscopy (Paper-I) UGIII	05/07/19
Solid State Physics, Semiconductor (Paper-II) UGIII	05/07/19
Seed Pathology & Entomology (Paper-I) UGIII	06/07/19
Seed Processing, Storage & Marketing (Paper-II) UGIII	06/07/19
Applied Statistics (Paper-I) UGIII	31/07/19
SQC & Design of Experiments (Paper-II) UGIII	31/07/19
Genetics (Paper-I) UGIII	18/10/19
Ecology and Applied Zoology (Paper-II) UGIII	18/10/19
Development & Environment Economics (Paper-I) UGIII	31/07/19
Statistics (Paper-II) UGIII	31/07/19
Forensic Medicine & Toxicology (Paper-I) UGIII	06/08/19
Detective Tools & Techniques (Paper-II) UGIII	06/08/19
Geography & India (Paper-I) UGIII	27/06/19
Environment & Resources (Paper-II) UGIII	27/06/19
Forensic Sc. PG - Computer & Cyber Forensic	06/08/19
Chemistry PG - Chem-Informatics	20/06/19
1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective C	
implemented at the College level during the Academic year.	ourse bystem
Name of Programmes	G PG
Traine of Frogrammes   OG   Date of implementation of CDCs /   OG	, 10

adopting CBCS	PG	Elective Course System				
Already adopted (mention		· · · · · · · · · · · · · · · · · · ·		Nil	2015-16	
1.3 Curriculum Enrichm						
		ansferable and life skills o	ffered durin	g the v	ear	
Value added courses			Date of	5 )	Number of	
, 42.50 4.50 5.50			introduction	on	students	
				,,,	enrolled	
Hardware/ Networking wo	15-16/11	/19	250			
Mishra, Amit Pandit	ornonop. Dop.	. or comp. sc. & risting	10 10,11	110	250	
Computer Hardware, Equ	ipment Repai	ring & Fabrication	18/11/1	9	36	
Tanning Workshop	-po					
Certificate Course on Basi	ic Programmi	ng with Python: Dept. of	24/01/20	)20	36	
Electronics	i i i ogrammi	ng with 1 julion, 2 opt. of	21/01/20	,_0	20	
Certificate course on Emb	edded System	Design using Arduino:	24/01/20	)20	20	
Dept. of Electronics	edded Bystell	Design using rindamo.	21/01/20	20	20	
Personality Development	& Communic	ation Skill for M Sc	23/09-13/1	0/19	88	
Student: Dept. of Chemist			<u> </u>	.0,1)	00	
Psychological counseling			23/09-13/1	0/19	80	
Students : Dept. of Chemi			25/07 15/1	10/17	00	
Internship Programme on			06-18/01	/20	48	
of Chemistry & Pharma. (		non reeminques . Bept.	00 10/01	720	10	
Short term Tr. On "Advan		chniques for				
Entrepreneurship Develop	22/01-14/02/20		25			
Hands on Training Progra	10 -11/10/19		30			
self employment (student			30			
Bio Diversity ( <b>Students</b> )(	/\	·	02/03/2	25		
Short term employment or						
( <b>Students</b> )( Dept. of Bioc			16/09-12/1	10/19	40	
CSIR NET CLASSES: De			01/09-01/12/19		35	
1.3.2 Field Projects / Inter			01/07 01/1	2/17	33	
· ·	ct/Programme		No. of students enrolled for			
Trojec	og i rogramme		Field Projects / Internships			
60 hours job oriented pro	oiect/internsh	in is mandatory for each	110101110](			
student at UG level at in	•	•				
school management, Path	•					
_	ement, Fish	-				
Techniques; Computer sof						
Pathology & Pharmace						
		ic Computer, Library		1605		
Management, Nursery M		*		1000		
Geological field study; M	_	•				
Tissue Culture, Forest Nursery, Flora in Zoo, Horticulture,						
Vermicomposting, Food Preservation, Floriculture, Organic						
Forming, Soil Analysis						
management, Pathology a						
		ip is mandatory for each				
		semester : Instrumental		0.40		
Techniques; Pollution,				248		
- · · · · · · · · · · · · · · · · · · ·	•	Medical; Printing Press,				

Media Work, Cyber Security, DTP, Fisheries; Geological field study; Bio Fertilizer, Cow pat pit biodynamic compost, Questioned Document, Anthropology, Crime Scene, Investigation, DNA, Profiling and Serology, Wheat crop improvement, Wheat breading.

## 1.4 Feedback System

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

1) Students	2) Teachers	3) Employers	4) Alumni	5)Parents
Yes	Yes	No	Yes	Yes

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

Due to Corona pandemic the feedback of students are taken on the impact of covid-19: On Impact of Covid-19 on mental status of students.

Most government around the world has temporally closed education institution in an attempt to reduce the spread Covid-19. In our opinion this lockdown has many adverse effect on the college students. Looking to this we have studied the impact of Covid -19 on the students of Holkar Science College, Indore (M.P.), which is leading science institution of central India and catering students of various district of Madhya Pradesh.

For this study a survey was designed to assess initial psychological impact of Covid-19 among college students (fears, worries and impairment in sleep etc.). We collected data using an online survey platform (Google form) to minimize face-to-face or physical interaction as students continued to isolate themselves at home. Students were invited through a text message, which lead them to a Google form page designed by authors. All students who have enrolled to Holkar College were sent the message for participation in this Covid study survey. The period of Goggle form submission was between 22 May, 2020 to 07June, 2020. has

The goggle form has some questions regarding their psychological state. The questions in the survey were closed questions wherein respondents were requested to choose between certain options. We receive 2484 response from students of different classes (UG and PG). We have analysis the all 2484 responses. The outcome on various parameters is given below:

Q. No.	Question	YES	MAYBE	NO
1	Are you feeling more nervous, anxious or on edge?	1774	327	265
2	Are you worrying too much about its effect on your health and safety?	1563	321	257
3	Are you worrying too much about its effect on your family's health and safety?	1756	239	167
4	Are you worrying too much about its effect on your studies	2332	157	131
5	Are you becoming so restless that it is hard to sit still?	1237	676	420
6	Are you losing interest or pleasure in doing things?522919	1217	679	444
7	Are you facing trouble falling asleep or staying asleep, or sleeping too much?	1001	970	0
8	Are you feeling tired or having little energy?	963	969	0
9	Are you struggling in keeping your Schedule while you are at home during lock down ?661618	1545	374	421
10	Has COVID 19 disturbed your future plan681220	1592	281	468

On the basis of results obtained in the present study we can conclude that students were more nervous, anxious, tired and less energetic during lockdown period and were worried about health and future

Apart from this feedback, various departments have been taken feedback at departmental level from various stakeholders. The feedback is analysis and the step taken as per the analysis.

CRITERION II -TEACHING-LEARNING AND EVALUATION									
	nt Enrolment a								
	nand Ratio durin	g th							
Name of the	he Programme		Number of		Number of	app	lications re	eceived	Students
			seats available						Enrolled
UG - B.Sc	<b>.</b> .		2610		Not Availa	ble (	Online Ac	lmission	2601
					done centra		•	f Higher	
					education (	Govt	. of M.P.)		
UG - BCA			120				-do-		120
	.–BioChemistry		40				-do-		31
	-Bioechnology		20				-do-		20
	c. – Botany		30				-do-		28
	c. – Chemistry		60				-do-		55
	c.— Computer Sc.	•	30				-do-		29
	c. – Fisheries		20				-do-		11
	c. – Forensic Sc.		40				-do-		38
	c. – Geology		40				-do-		35
	c. – Mathematics		75				-do-		74
	. – Microbiology		30				-do-		29
PG -M.Sc	.–Pharma. Chem		25				-do-		22
	c. – Physics		35				-do-		34
	c. – Statistics		25		-do-				18
	c. – Zoology		25						25
	Bio Chemistry		05						00
	Bio Technology		05						01
M.Phil. –			10						00
	Chemistry		10						02
	Comp. Sc.		10						02
M.Phil. –			10						03
	ing to Student I								
	dent – Full time		·		•	ı)			T
Year	Number of		mber of		nber of full		Number		Number of
	students		dents				time teachers		teachers
	enrolled in		olled in		lable in the		available in the		teaching
	the institution		institution		titution teaching				both UG
	(UG)	(PC	J)	only	y UG courses		teaching only PG		and PG
2010 20	FOOC		607		105		courses 102		courses
2019-20	5896	D	697		195		10	J <i>L</i>	195
	ing - Learning			o f.c	Alexa 4 1 '	•	LT '	~ \ \ /	
	entage of teache						n Learnin	g ivianage	ment
	LMS), E-learning	ig re			•		mbor of	E #202333	and and
Number			ICT tools and		Number of CT enabled		mber of	E-resource	
teachers	of teachers using				lassrooms	sma		technique	es used
on roll	ICT (LMS, e- Resources)		resources available	C	assiooms	Cias	classrooms		
195	125		Available	_	23		13	Over Use	ad Projector,
173	125		Available		43		13	Power Po	
								Presentat	
								Library (	
	l .		l					(	

		Infibnet), e-book, online videos &
		animation, Internet,
		etc.

2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)

For mentoring of the students proctors are assigned for every class and section of UG and PG classes by the institute. The proctor acts as a mentor for the students of his section and he guides the students throughout the session. Mentor/proctor periodically meets the students to solve their problems. Proctors continuously monitor, counsel and motivate students and help him 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. Mentors acts as a link between the students and the institution and perform following functions:

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

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
6593	195	1:34

### 2.4 Teacher Profile and Quality

# 2.4.1 Number of full time teachers appointed during the year

2.7.1 Nulliber of 10	ин ише каспеть арроші	cu during the year		
No. of sanctioned	No. of filled positions	Vacant positions	Positions filled	No. of
positions			during the current	faculty
			year	with
				Ph.D.
Regular: 107	87	20	Recruitment done	74
Regular. 107	87	20	by Govt.	/-
<b>Guest Faculty</b>	1.4		1/	06
(Govt.)	14	0	14	06
<b>Guest Faculty:94</b>	94	0	94	19

## 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
2019-20	Dr. Kislaya Pancholi	Professor	<ol> <li>Shikshak Patra(Denik Bhaskar):National Level</li> <li>KDP Pen to publish Contest award: International, Amazon.in</li> </ol>
2019 -20	Dr. Seemavati Sisodiya	Asst. Prof.	National level certificate of recognition by National AIDS control organization.
2019-20	Dr. A. Bafna	Asst. Prof.	Best Paper Presentation

	T								
2019-20	Tasneem	n Rangwala	Asst. P	rof.	_	Young So			
					2.			entation	
2019-20		eta Hardiya	Guest I			r Scientist			
2019-20	Anuja Sl		Guest I			g Scientist			
2019-20	J		Profess		Appreciation award for research: GHSC				
2019-20	Dr. Deep	oti Khare	Guest I	Faculty	Appre	ciation aw	ard for	research: GHSC	
		cess and Reforms							
2.5.1 Nu	mber of day	ys from the date of	f semester-	end/ ye	ar- end	examination	on till th	ne declaration of	
results du	iring the ye	ear							
Progra	Program	Semester/ year	Last date	of the l	ast	Date of de	eclarati	on of results of	
mme	me		semester	-end/ ye	ar-	semester-	end/ ye	ar- end	
Name	Code		end exan	nination		examinati	on		
B.Sc.	U001	Year	05	5.09.20			20.1	10.20	
B.C.A.	U002	Semester	05	5.09.20			20.1	20.10.20	
MSc.	P003	Semester		5.09.20				20.10.20	
2.5.2 Average percentage of Student complaints/grievances about evaluation against total number									
appeared	in the exam	ninations during the	he year $*L$	o not in	iclude i	re-evaluati	on/ re-t	totalling	
Number	of complain	nts or grievances	Total	number	of stud	ents	Percen	ıtage	
about eva	aluation		appea	red in tl	he exan	nination			
	2	9		1	400			2.07%	
<b>2.6 Stud</b>	ent Perfor	mance and Learn	ing Outco	omes					
								programs offered	
by the in	stitution are	e stated and displa	yed in wel	osite of t	the inst	itution (to j	provide	the weblink)	
			(Anno	exure V	)				
2.6.2 Pas	s percentag	ge of students							
Progra	Progra	Number of studer	nts	Numb	er of st	udents	Pas	ss Percentage	
mme	mme	appeared in the fi	nal year	passed	d in fina	al Semester			
Code	name	examination		/year	examin	ation			
U001	B.Sc.	1522			15	19		99.8%	
U002	B.C.A.	83			8	3		100%	
P003	M.Sc.	248			24	18		100%	
<b>2.7 Stud</b>	ent Satisfa	ction Survey							
2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink) <b>Yes</b> (Annexure VA)									

2. Vo.	Questions	Parameters					
01	How much of the syllabus was	85 to 100%	70 -84	55-69	30-54	Below 30	
	covered in the class?	61.1	29.8	9			
02	How well did the teachers prepare for the classes?	Thoroughly	Satisfactory	Poorly	Indifferently	wont teach at all	
		38.4	53.5	2	1	1	
)3	How well were the teachers able to	Always	Some time	Just	Generally		Very
	communicate.	effective	effective	satisfactory	ineffective		poor
		65.3	21.2	10			
4	The teacher's approach to	Excellent	Very good	Good	Fair	Poor	
	teaching can best be described as		45.6	32.4	17.9		
5	Fairness of the internal evaluation process by the teachers	Always fair	Usually	Sometimes unfair	Usually unfair	Unfair	
1		62.6	37.7				
06	The institute takes active interest in	Regularly	Often	Sometimes	Rarely	Never	I am

	promoting internship, field visit			unfair			final
	opportunities for students	438	10.9	13.1			25.9
)7	The institution provides multiple opportunities to learn and grow	Strongly disagree	Disagree	Neutral	Agree	Strongly agree	
		20,2	6	15.4	40.9	17.5	
8	Your mentor/ proctor does a necessary follow-up with an	Every time	Usually	Occasionally	Rarely	I don't have mentor	
	assigned task to you.	54.2	27.2	11.2			
9	The teachers illustrate the concepts through examples and	Every time	Usually	Occasionally	Rarely	I don't have mentor	
	applications.	60.3	27.6				
0	The teachers identify your	Fully	Reasonably	Partially	Slightly	Unable	
	strengths and encourage you with providing right level of challenges.	58.1	21.9	9,1			
1	Teachers are able to identify your	Every time	Usually	Occasionally	Rarely	Never	
	weaknesses and help you to overcome them	54.3	21.1	12.7	7		
2	The institution makes effort to engage students in the monitoring,	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	
	review and continuous quality improvement of the teaching learning process.	40.7	42.2	12.2			
3	The institute/teachers use student centric methods, such as	To a great extent	Moderate	Some what	Very little	Not at all	
	experiential learning, participative learning and problem solving methodologies for enhancing learning experiences.	51.7	31.2				
4	Teachers encourage you to participate in extracurricular	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	
	activities.	44.3	42.8			· ·	
5	Efforts are made by the institute/ teachers to inculcate soft skills, life	To a great extent	Moderate	Some what	Very little	Not at all	
	skills, personality development and employability skills to make you ready for the world of work	51.6	29.1	I	1	1	
6	What percentage of teachers use	Above 90	70-89	50-69	30-49	Below 29	
-	ICT tools such as LCD projector, Multimedia etc. while teaching and practical	20.3	35.8	21.6		14.1	
7	The overall quality of teaching- learning process in your institute is very good.	Strongly agree	Neutral	Disagree	Strongly disagree		
		63.9	31.3				
8	Percentage of classes attended	81-100	61-80	41-60	21-40	0-20	
		30.4	51.1	11.7			
9	Number of hours per week spent on	2 to 4	4 to 6	6 to 8	8 to 10		
	the course (Other than lecture hours)	35	36.3	21.2	7.6		
		0 and 21 are re	lated to Preparati	on for the course b	y the student		_
0	Have done part of this course	Yes	No				
	earlier	78.3	21.7	1	1		
1	Has adequate prior exposure to the	Yes	No				
	prerequisites	83.4	16.6		1 , , ,	,	
				s for taking the co	urse by the stud	lent	
2	Enhance by skill base in the area	Yes	No		-	-	
2	of specializations	93.6			-	-	
3	Get exposed to a relevant subject	Yes	No		-		
		92.6	7.4	1	1		
4 Curiosity		Yes	No		1		1
4		06.0					
<i>4 5</i>	Better Employment Opportunity	96.9 yes	no				

Chitebion III Di	ECE A D.C.I	I INNOVATIO	ONIC AND E	VTENCION			
CRITERION III – RI 3.1 Promotion of R				XTENSION			
3.1.1 The institution				hers for re	search		
Yes <b>No.</b>		es give details		1015 101 10	bocaren		
Name of the teacher		he amount of		Year of re	eceiving grant	Duration	of the grant
getting seed money		noney	secu	1 car or re	ceciving grant	Duration	or the grant
Nil	11	Nil			Nil		Nil
3.1.2 Teachers awar	ded Nat		ional fello	wshin for a		s/ research	
year	ded I vai	ionai/micinat	ionai ieno	winp for t	davancea stadie	s/ researci	during the
jear	Name	of the	Name of	the.	Date of Award	Aw	arding Agency
		r awarded	Award		Date of Tiwara		arang rigonej
		owship					
National		Nil	N	il	Nil		Nil
International		Nil	N		Nil		Nil
	1	-				L	<del></del>
3.2 Resource Mobi	lization	for Research	1				
3.2.1 Research fund				various age	encies, industry	and other	organizations
Nature of the Pr		Duration		e of the	Total grant		ount received
	J			g Agency	sanctioned		ring the year
Major projects		3		DAECSR	1527879		999(Physics)
Minor Projects							
Interdisciplinary Pro	piects						
Industry sponsored Projects							
Projects sponsored l							
University/ College	<i>y</i>						
Students Research F	roiects						
(other than compuls							
the College) "Water							
Analysis Project"&		2010 20	Govt. I	Holkar Sc.	Microbiolog	y	5000
Temporal Study of	Water	2019 - 20	Colleg	ge, Indore	Geology		5000
bodies of Indore Us	ing						
Remote sensing and	d GIS						
Technologies.							
International Projec	ts						
Any other(Specify)							
Total				03			463999
3.2.2 Number of or		esearch projec	ets per teac	her funded	l by government	t and non-	government
agencies during the	•						
1 - Major Project (P	hysics)						
3.3 Innovation Eco							
3.3.1 Workshops/Se			Intellectu	al Property	Rights ( <b>IPR</b> ) a	nd Industi	y-Academia
Innovative practices				1			т
		hop/Seminar			Name of the De	ept.	Date(s)
One day Symposium					of Botany		05/11/19
Webinar on "A Futu					of Botany & Env		13-14/06/20
National Webinar o				_	of Horticulture	& Seed	19-20/06/20
Hydrononic Technic	nuec in t	he Pandemic	Time"	Techr	nology		

Hydroponic Techniques in the Pandemic Time"

Technology

National Webinar on "Environmental Imbalance and Corona – Havoc"	Department of Chemistry & Pharma Chem.	05/06/20
International Webinar on "Challenges in Science and Technology for tackling Covid-19"	Department of Bio Chemistry	11-14/06/20
National Workshop on Intellectual Property Rights	Dept. of Physics, Electronics	12-13/03/20
Webinar on "Modern Physics and Material Science"	Dept of Physics	26-30/05/20
National Symposium on Mathematics (Ramanujan Day)	Dept. of Mathematics	24/12/19
Webinar on "Recent Trends in Mathematics"	Dept. of Mathematics	11/06/20
International Webinar on "Covi-19 Pandemic: Prevention & Management"	Dept. of Microbiology	04-06/06/20
Webinar on "To Improve Immunity & Peace by Meditation" (International Day of Yoga)	Dept. of Sports	21/06/20
International Conference on "Recent Advances in Life Science for Betterment of Human Health" (ICRALBEH-19)	Dept. of Zoology	14-15/12/19
National webinar on "Zoology for Human Health"	Dept. of Zoology	17-18/06/20
One week workshop on "Qualitative & Quantitative Analysis	Dept. of Pharma Chem. & PG Tech. Research Inst. Indore	10-15/10/19
Application of Advanced Scientific Instrumentation with entrepreneurship guidance	Dept. of Pharma Chem. & PG Tech. Research Inst. Indore	08-15/06/20
Webinar on "Immunity Through Ayurveda in Present Scenario"	Dept. of Pharma Chem.	16/06/20
One week Workshop on "Research Methodology"	Dept. of Comp. Science	16-20/12/19
National webinar on "Python Programming & Computer Vision"	Dept. of Comp. Science	25-26/05/20
National Webinar on "Future opportunities in Information Technology"	Dept. of Comp. Science & ISROSET	15-16/06/20
Webinar on "Advanced Computer Hardware & Networking"	Dept. of Comp. Science	25/05/20
Webinar on "Cyber Security"	Dept. of Comp. Science	27/03/20
National Webinar on "Water Management and Career Opportunities in Geosciences"	Dept. of Geology	12-13/06/20
Conference on "Water and environmental crisis of Indore City" (Social workers, Scientist Environmental & Pollution Control Board)	Dept. of Geology	??
Bhuvisanwad (Academic Interaction Programme)	Dept. of Geology and Geological Survey of India	15-16/11/19
National Webinar on "A Healthy Approach Towards Future: Ayurveda vis a vis Modern Research"	Dept. of Bio. Tech. & Bio. Info.	21-22/06/20
Webinar on "Positive Aspects of Corona"	Dept. of Bio. Tech. & Bio. Info.	08-09/06/20
Online Certificate course on "Molecular &		
Computational Biology"	Dept. of Bio. Tech. & Bio. Info.	15-28/10/20
Webinar on "Mental Health & Covid-19"	Red cross & Women Empowerment cell	21/07/20
National Webinar on "Teaching- Learning and Evaluation"	IQAC HSC, Indore	19-20/06/20
Webinar on "Concept and Applications of Statistical Methods in Research"	Dept. of Statistics	21-22/06/20
Webinar on "Fundamentals of Modern electronics"	Dept. of Electronics	08-10/06/20

							Dept. of English			
National webina Mulyon ki Bhun		dalte P	ridrashya m	ne Naitik	Dept. of	Dept. of Hindi			19-20/06/20	
Online Lecture S Instrumentation	Series on		_	es &	Dept. of	Fore	nsic science		23/04- 27/05/20	
National Webina	National Webinar on "Recent Innovation in Forensiscience and other applications in Criminal Investigation"					Forei	nsic science		17-20/06/20	
332 Awards for	r Innovati	ion we	n hy Inctitu	ution/Teac	hers/Resear	ch sch	olars/Stude	nte du	ring the year	
3.3.2 Awards for Innovation won by Institution/Teac Title of the innovation Name of the Awardee					Awarding Agency	D	ate of ward	Cate		
Eco friendly Dye	eing	Taiya (Bota	aba Naim A any)	nsari	ICRALEH		5-12-2019	Yong Awa	g Scientist rd	
•	Vay reduced Agri. Taiyaba Naim A (Botany)  (Botany)			nsari	MPCST	28	3-02-2020		owship of ing young ntist	
3.3.3 No. of Incu		entre c	reated, star	rt-ups inc	ubated on ca	mpus	during the	year		
	Incubation Centre Nil				ne I	Sponsored by Nil			•	
Name of the	e Start-up	)	ı	Nature of	Start-up		Date	of com	nmencement	
Nil	l			Ni	il Nil				il	
3.4 Research Pu										
3.4.1 Ph. Ds awa				1	NI.	of D	ole De Arrien	ا ما ما		
	f the Dep Bio chem		nı	No. of Ph. Ds Awarded 01						
	Zoology				05					
(	Chemistr			03						
	Physics				05					
	Total						14			
3.4.2 Research P	ublicatio	ns in t	he Journals	notified o	on UGC web	site d	uring the ye	ear		
			rtment	N	o. of Publica	ation	Average	Impac	et Factor, if any	
National			Chem.		01				_	
	Bio		& Bio Info.		01				-	
			mistry otal		03 <b>05</b>				-	
International			tany		09			5.0	69	
			mistry		13				33	
			ıp. Sc.		03				1	
			: Sc.		01			_	-	
			ematics		08				<u>-</u>	
		•	ysics		14			0		
		Stat	istics		02		1	-	-	

	Zoo	ology		2	27			
		otal			7		4.25	
		otal		8	32		4.25	
3.4.3 Books and Chapt Conference Proceeding					shed, and	d papers	in National/Interr	national
Department					. of publ	ication		
For. Sc.		•		ence on	Recent	Advanc	es in Life Science	
Bio Tech. & Bio Info		tterment	of Environm	ent and	Human 01	Health I	held on Dec. 14-1:	5, 2019)
Chemistry		proceed	ing (2019), 0	2 Books		apters P	ublished	
		1				1		
3.4.4 Patents published	/awarde	ed durin	g the year					
Patent Details			ent status	Patent	Number		Date of Award	
			blished/					
***			Filed		N 741		***	
Nil			Nil		Nil		Nil	
3.4.5 Bibliometrics of the	he nuhli	cations	during the lo	et Acade	emic vec	r hacad	on average citatic	n indev
in Scopus/ Web of Scie						1 based	on average chanc	III IIIGCX
Title of the paper		of the	Title of the		Year	Citation	Institutional	Number
1 1	author	r	journal		of	Index	affiliation as	of
					public		mentioned in	citations excluding
					ation		the	self
							publication	citations
Beneficial Role of	T.	_	Current		2019	Nil	Dept. of	Nil
Soluble Silica in	Rangy		Agricultural				Biochemistry,	
enhancing chlorophyll	A. Ba		research Jou	ırnal			Holkar	
contained in Onion leaves	•	as and					Science College,	
leaves	R. Gu	pta					Indore	
Youth inclination	Namı	rata	Internationa	1	2019	NIL	Dept. of	NIL
towards Higher	Khura		journal of	1	2017	TVIE	Biotech.,	TVIL
Education			scientific re	search			Holkar Sc.	
			and review.				College,	
							Indore	
Viriation in range of	Sanje	eda	Internationa	1	2019	Nil	Dept. of	Nil
Colours Obtaind by	Iqbal		Journal of				Botany,	
Application of Natural	Arif P	atel	Advance an	d			Holkar Sc.	
Dyes and Mordants on			Innovative				College,	
Silk Fabric	** *		Research		•010	2	Indore	2 711
The Effect of Agro-	H. L.	diva	Internationa		2019	Nil	Dept. of	Nil
	meteorological Indices Khapediya, Snjeeda Iqbal, Journal of						Botany,	
and Planting Date on the Growth,		harma,	Microbiolog Applied Sci	•			Holkar Sc.	
Development and	Ranjee G. R.	t,	Applied SCI	CHUES			College, Indore	
Productivity of	Ambay	vatia					Indoic	
Soybean Grown in	and K.							
Vertisols	Singh							
	1		<u>I</u>		1	1	1	1

Noise Level Near Educational Institutions at Indore, MadhyaPradesh	Chitnis S., Chitnis U. and Nirgude V.	Various Aspect for Sustainable Development	2019	Nil	Dept. of Botany, Holkar Sc. College, Indore	Nil
Isolation and identification of keratinophilic fungi from regional park of Indore, (M.P.)	Dr. Sanjay Vyas	Journal of emerging technology and innovative research (Jetir)	2019	Nil	Dept. of Botany, Holkar Sc. College, Indore	Nil
ANTIFUNGAL ACTIVITY OF WEED'S EXTRACTS AGAINST IMPORTANT PHYTOPATHOGEN S	Deepti Khare, Sanjay Vyas, Neha Sharma	Journal of Emerging Technologies and Innovative Research (JETIR)	2019	Nil	Dept. of Botany, Holkar Sc. College, Indore	Nil
Comparison of nodule formation in desi and kabuli varities of chick pea(Cicer arietinum L.)under irrigated and rain fed conditions	Sanjay Vyas	Indian Research Communication	2019	Nil	Dept. of Botany, Holkar Sc. College, Indore	Nil
THE COMAPARITIVE STUDY OF SEED YEILD IN DESI AND KABULI VARIETIES OF CHIKPEA (Cicer arietinum L.) UNDER MOISTURE STRESS AND NON- MOISTURE STRESS ENVIRONMENT.	Sanjay Vyas	Indian Research Communication	2019	Nil	Dept. of Botany, Holkar Sc. College, Indore	Nil
WOODY PHYTO- RESOURCES OF MEDICINAL IMPORTANCE USED BYTHE TRIBAL POPULATIONS BETWEEN SATPURAAND VINDYAN HILLS, MADHYA PRADESH, INDIA	Seemavati Sisodiya and Harish Chander Dutt	Plant Archives	2020	Nil	Dept. of Botany, Holkar Sc. College, Indore	Nil
ASSESSMENT OF PREVALENCE OF DRUG RESISTANT Escherichia coli IN	A. Mukati, S. Vyas, S. Hardia, D. Khare and	Journal of Emerging Technologies and Innovative	2020	Nil	Dept. of Botany, Holkar Sc. College,	Nil

KHAN RIVER, INDORE	A. Sharma,	Research			Indore	
STUDY OF COMPARISON OF FRESH AND DRAINAGE WATER CONDUCTOMETRY CALLY OF LABS FROM GOVT.HOLKAR SCIENCE COLLEGE, INDORE	Nameeta Bende	World Journal of Pharmaceutical Research	2019	Nil	Dept. of Chemistry, Holkar Sc. College, Indore	Nil
Analysis of Water of River Kshipra during Kumbh Mela 2016 Ujjain, Madhya Pradesh	S. K. Gohar, P. Solanki., A. Barua	IJRTI	2019	Nil	Dept. of Chemistry, Holkar Sc. College, Indore	Nil
ANALYSIS OF PHYSICO- CHEMICAL AND BACTERIOLOGICA L STUDIES OF WATER SAMPLES FROM THE SUB- URBAN AREAS OF SANWER TEHSIL, MADHYA PRADESH	Ashok Barua, Prakash Solanki, Sandeep Kumar Gohar	IJSDR	2019	Nil	Dept. of Chemistry, Holkar Sc. College, Indore	Nil
Review Of Research	P. Solanki , S. K. Gohar and A. Barua	Review Of Research	2019	Nil	Dept. of Chemistry, Holkar Sc. College, Indore	Nil
Removal of Methylene Blue Dye from Wastewater using Zeolite Synthesized from Coal Fly Ash	M. K. Dwivedi, I.P. Tripathi, C. Alawa &P. Shrivastava	IOSR Journal of Applied Chemistry (IOSR- JAC)	2019	Nil	Dept. of Chemistry, Holkar Sc. College, Indore	Nil
Adsorptive Removal of Brilliant Green Dye from Wastewater by Zeolite Synthesized from Coal Fly Ash	M. K. Dwivedi, I.P. Tripathi, C. Alawa, P. Shrivastava, V. Malviya	IJRAR	2019	Nil	Dept. of Chemistry, Holkar Sc. College, Indore	Nil
PHYSICOCHEMICA L ANALYSIS OF WATER AND SOIL SAMPLES	Richa Pathak, Payal Jain, S. L. Garg,	IJRAR	2019	Nil	Dept. of Chemistry, Holkar Sc. College,	Nil

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COLLECTED FROM	and M. K.				Indore	
DIFFERENT SITES	Dwivedi					
OF PITHAMPUR						
INDUSTRIAL						
AREA, INDORE MP						
QSAR studies of β-	P. D. Soni,	Internat ional	2019	Nil	Dept. of	Nil
Carboline derivatives	I.P Tripathi,	Journal of			Chemistry,	
as potentantiviral	M.K.	Advanced Scient			Holkar Sc.	
agents	Dwivedi	ific Research and			College,	
		Management			Indore	
A Kinetic study on	M.	Journal Of	2020	Nil	Dept. of	Nil
solubilization of	Khandelwal	Engineering			Chemistry,	
Sudan I dye by	Ampily. J.S	sciences			Holkar Sc.	
Sodium	and Geetha				College,	
dodecylsulphate	Sarasan				Indore	
Antimicrobial Activity	Pramila	International	2020	Nil	Dept. of	Nil
and Phytochemical	Kori	Journal of Science			Chemistry,	
Analysis of Citrus		and Research			Holkar Sc.	
Sinensis Leaves					College,	
Extracts					Indore	
ASSESSMENT OF	Bijendra	Juni Khyat	2020	Nil	Dept. of	Nil
HEAVY METALS	Rai and				Chemistry,	
TOXICITY ON	Pramod				Holkar Sc.	
BIOCHEMICAL &	Singh				College,	
PHYSIOLOGICAL	8				Indore	
CHANGES IN						
PULSES						
BREAST CANCER:	Bijendra	WORLD	2020	Nil	Dept. of	Nil
MOLECULAR	Rai	JOURNAL OF	2020	1,11	Chemistry,	1 111
MECHANISM		PHARMACY			Holkar Sc.	
		AND			College,	
		PHARMACEUTI			Indore	
		CAL SCIENCES			maore	
Adsorptive Removal	M. K.	2020 IJRAR	2020	Nil	Dept. of	Nil
of Brilliant Green Dye	Dwivedi,	2020 1010110	2020	1,11	Chemistry,	1111
from Wastewater by	I.P.				Holkar Sc.	
Zeolite Synthesized	Tripathi,				College,	
from Coal Fly Ash	C.Alawa, P.				Indore	
110111 Court by 11511	Shrivastava,				Indoic	
	V. Malviya					
CADMIUM	PayalJain,	UGC Care Group	2020	Nil	Dept. of	Nil
REMOVAL FROM	Suresh Jain	I Listed Journal	2020	1 111	Chemistry,	1 111
AQUEOUS	and	1 Listed Journal			Holkar Sc.	
SOLUTION BY NA-	M.K.Dwive				College,	
P ZEOLITE	di				Indore	
SYNTHESIZED	uı				muore	
FROM COAL FLY						
ASH						
Synthesis,	Anamika	AIP Conference	2019	Nil	Dept. of	Nil
characterization and			2019	1111	*	1111
Characterization and	Jain	Proceedings 2100			Chemistry,	

biological activity of flavonoid derivatives with amine					Holkar Sc. College, Indore	
Polarographic determination of stability constant of Zn (II) complexes with antibiotics – Clindamycin complexes in aqueous medium	Laxmi Tantuvay	AIP Conference Proceedings 2100	2019	Nil	Dept. of Chemistry, Holkar Sc. College, Indore	Nil
Comparative Invetigation of SKC Algorithm for Secure Information with different Parameters	Shiv Lal Mewada & Praeep Sharma	International Journal of Future Generation Communication and Networking	2020	Web of Science	Dept. of Comp. Sc., Holkar Science College, Indore	Nil
Agricultural Informatics as a Branch of Study in Information Sciences and Technology Domain—A Proposal towards Digital Agriculture	Shivlaal Mewada	Academic Research Publishing Group	2020	Nil	Dept. of Comp. Sc., Holkar Science College, Indore	Nil
Artificial Bee Colony- Based Approach for Privacy Preservation of Medical Data	Shivlaal Mewada, Pradeep Sharma	International Journal of Information System Modeling and Design Volume 11, Issue 3	2020	Nil	Dept. of Comp. Sc., Holkar Science College, Indore	Nil
DIFFERENTIAL CELL VIABILITY IN NITZSCHIA PALEA ON EXPOSURE TO DIFFERENT ORGANIC AND INORGANIC ENVIRONMENTAL EFFLUENTS	A. AHIRWAR S.GUPTA, M. KASHYAP & P. SHUKLA, V.A. VINAYAK	INTERNATION AL JOURNAL OF ENVIRONMENT AL SCIENCE AND TECHNOLOGY	2019	Nil	Dept. of For. Sc., Holkar Sc. College, Indore	Nil
Compatibility of maps and common fixed point theorems in Complex valued Metric Spaces	R.K. Sharma, G. Yadav	Jour. Ind. Acad. Math. 41(2), 195- 218, 2019	2019	Nil	Dept. of Mathematics, Holkar Sc. College, Indore	Nil
Takagi Sugeno Inference for Single Slope Single Basin Solar Still	Raich, V.; Yadav, N.	Journal of Computer and Mathematical Sciences	2019	Nil	Dept. of Mathematics, Holkar Sc. College,	Nil

					Indore	
CONTRACTION PRINCIPLE IN RECTANGULAR M- METRIC SPACES WITH A BINARY RELATION	SHISHIR JAIN AND POOJA CHAUBEY	Advances in Mathematics: Scientific Journal	2020	Nil	Dept. of Mathematics, Holkar Sc. College, Indore	Nil
NEW RESULTS IN CONE PENTAGONAL METRIC SPACES	SHISHIR JAIN AND POOJA CHAUBEY	South East Asian Journal of Mathematics and Mathematical Sciences	2020	Nil	Dept. of Mathematics, Holkar Sc. College, Indore	Nil
RELATION- THEORETIC ψ- CONTRACTIVE MAPPINGS IN CONE PENTAGONAL METRIC SPACES	SHISHIR JAIN AND POOJA CHAUBEY	J. Math. Comput. Sci.	2020	Nil	Dept. of Mathematics, Holkar Sc. College, Indore	Nil
Stability Analysis of a Deterministic Vaccination Model with non-monotonic Incidence Rate	Harish Joshi G.L. Prajapati, R.K. Sharma	J. Math. Comput. Sci. 10(1), 2020, 51 - 67	2020	Nil	Dept. of Mathematics, Holkar Sc. College, Indore	Nil
Global Dynamics of an SIR Epidemic Model with Specific Non-linear Incidence rate with treatment	R.K. Sharma, Garima Saxena, Ankit Agrawal	Bul. Cal. Math Soc. 112, (4), 371 – 388, 2020	2020	Nil	Dept. of Mathematics, Holkar Sc. College, Indore	Nil
Dynamical Analysis of Hyper-Susceptible Population over Susceptible Population in an Epidemic Model	Harish Joshi G.L. Prajapati, R.K. Sharma	Bul. Cal. Math Soc. 112, (2), 169 – 186, 2020	2020	Nil	Dept. of Mathematics, Holkar Sc. College, Indore	Nil
Measurement and Analysis of Normal- State Transport Properties of FeSe Superconductor	P. D. Lodhi, N. Kaurav, K. K. Choudhary, Y. K. Kuo	Journal of Low Temperature Physics (Springer)	2019	Nil	Dept. of Physics., Holkar Sc. College, Indore	Nil
Temperature- dependent transport properties of a FeTe compound	P. D. Lodhi, N. Kaurav, K .K. Choudhary, and Y K Kuo	Bull. Mater. Sci.(Indian Academy of Sciences: In association with Springer)	2019	Nil	Dept. of Physics., Holkar Sc. College, Indore	Nil
High pressure structural phase transition and elastic properties of	S. Verma, A. Jain, K. K. Choudhary	International Journal of Modern Physics B (World Scientific)	2019	Nil	Dept. of Physics., Holkar Sc. College,	Nil

ZnSexTe1-x	and N.				Indore	
semiconducting	Kaurav				ilidore	
compounds	Kaurav					
Structural,	Monika	Optik	2019	Nil	Dont of	Nil
· ·		Орик	2019	INII	Dept. of Physics.,	INII
photoluminescent and thermoluminescent	Somania,, M. Saleemb				Holkar Sc.	
studies of rare earth						
	, M. Mittala				College,	
ion (RE = Eu3+)	, P.K.				Indore	
doped Sr2SiO4	Sharmaa					
phosphor	77' 1 1	• ,•	2010	27.1	D	NT'1
BARIUM (BA2+)	Vishal	jetir	2019	Nil	Dept. of	Nil
DOPED CU-ZN	Tandon				Physics.,	
FERRITE:					Holkar Sc.	
ELUCIDATION OF					College,	
STRUCTURAL AND					Indore	
DIELECTRIC						
PROPERTIES	NT /	D CD: 1	2010	NT'1	D : C	NT'1
Synthesis and characterization of	Netram	Prof. Dinesh	2019	Nil	Dept. of	Nil
	Kaurav	Varshney			Physics.,	
ZnO nanoparticles by		memorial			Holkar Sc.	
thermal decomposition		National			College,	
method		Conference on			Indore	
		Physics and				
		Chemistry of				
T. C.	NT /	Materials	2010	NT'1	D	3.711
Interpretation of	Netram	Prof. Dinesh	2019	Nil	Dept. of	Nil
Raman modes in FeTe	Kaurav	Varshney			Physics.,	
and FeTe0.9S0.1		memorial			Holkar Sc.	
compounds		National			College,	
		Conference on			Indore	
		Physics and				
		Chemistry of				
Defeat of sintening		Makes! -1-				
HITECT OF CINTAMING	Natur	Materials  Draf Dinash	2010	NT!1	Dorst - C	NI:1
Effect of sintering	Netram	Prof. Dinesh	2019	Nil	Dept. of	Nil
temperature on the	Netram Kaurav	Prof. Dinesh Varshney	2019	Nil	Physics.,	Nil
temperature on the dielectric properties of		Prof. Dinesh Varshney memorial	2019	Nil	Physics., Holkar Sc.	Nil
temperature on the dielectric properties of non-stoichiometric		Prof. Dinesh Varshney memorial National	2019	Nil	Physics., Holkar Sc. College,	Nil
temperature on the dielectric properties of		Prof. Dinesh Varshney memorial National Conference on	2019	Nil	Physics., Holkar Sc.	Nil
temperature on the dielectric properties of non-stoichiometric		Prof. Dinesh Varshney memorial National Conference on Physics and	2019	Nil	Physics., Holkar Sc. College,	Nil
temperature on the dielectric properties of non-stoichiometric		Prof. Dinesh Varshney memorial National Conference on Physics and Chemistry of	2019	Nil	Physics., Holkar Sc. College,	Nil
temperature on the dielectric properties of non-stoichiometric nickel oxide	Kaurav	Prof. Dinesh Varshney memorial National Conference on Physics and Chemistry of Materials			Physics., Holkar Sc. College, Indore	
temperature on the dielectric properties of non-stoichiometric nickel oxide  Structural and Raman	Kaurav	Prof. Dinesh Varshney memorial National Conference on Physics and Chemistry of Materials Prof. Dinesh	2019	Nil	Physics., Holkar Sc. College, Indore  Dept. of	Nil
temperature on the dielectric properties of non-stoichiometric nickel oxide  Structural and Raman analysis of double	Kaurav	Prof. Dinesh Varshney memorial National Conference on Physics and Chemistry of Materials Prof. Dinesh Varshney			Physics., Holkar Sc. College, Indore  Dept. of Physics.,	
temperature on the dielectric properties of non-stoichiometric nickel oxide  Structural and Raman analysis of double perovskite	Kaurav	Prof. Dinesh Varshney memorial National Conference on Physics and Chemistry of Materials Prof. Dinesh Varshney memorial			Physics., Holkar Sc. College, Indore  Dept. of Physics., Holkar Sc.	
temperature on the dielectric properties of non-stoichiometric nickel oxide  Structural and Raman analysis of double	Kaurav	Prof. Dinesh Varshney memorial National Conference on Physics and Chemistry of Materials Prof. Dinesh Varshney memorial National			Physics., Holkar Sc. College, Indore  Dept. of Physics., Holkar Sc. College,	
temperature on the dielectric properties of non-stoichiometric nickel oxide  Structural and Raman analysis of double perovskite	Kaurav	Prof. Dinesh Varshney memorial National Conference on Physics and Chemistry of Materials Prof. Dinesh Varshney memorial National Conference on			Physics., Holkar Sc. College, Indore  Dept. of Physics., Holkar Sc.	
temperature on the dielectric properties of non-stoichiometric nickel oxide  Structural and Raman analysis of double perovskite	Kaurav	Prof. Dinesh Varshney memorial National Conference on Physics and Chemistry of Materials Prof. Dinesh Varshney memorial National Conference on Physics and			Physics., Holkar Sc. College, Indore  Dept. of Physics., Holkar Sc. College,	
temperature on the dielectric properties of non-stoichiometric nickel oxide  Structural and Raman analysis of double perovskite	Kaurav	Prof. Dinesh Varshney memorial National Conference on Physics and Chemistry of Materials Prof. Dinesh Varshney memorial National Conference on Physics and Chemistry of			Physics., Holkar Sc. College, Indore  Dept. of Physics., Holkar Sc. College,	
temperature on the dielectric properties of non-stoichiometric nickel oxide  Structural and Raman analysis of double perovskite	Kaurav	Prof. Dinesh Varshney memorial National Conference on Physics and Chemistry of Materials Prof. Dinesh Varshney memorial National Conference on Physics and			Physics., Holkar Sc. College, Indore  Dept. of Physics., Holkar Sc. College,	

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crystallographic study of La2NiTiO6 double	Kaurav	Varshney			Physics.,	
		memorial National			Holkar Sc.	
pervoskite structure					College,	
using crystallographic		Conference on			Indore	
software's		Physics and				
		Chemistry of				
0 1 1 1	NT .	Materials	2010	N.T.1	D	N.T.1
Structural and optical	Netram	Prof. Dinesh	2019	Nil	Dept. of	Nil
properties of	Kaurav	Varshney			Physics.,	
La2NiTiO6 double		memorial			Holkar Sc.	
pervoskite		National			College,	
		Conference on			Indore	
		Physics and				
		Chemistry of				
		Materials				
Theoretical analysis of	Saligram	Prof. Dinesh	2019	Nil	Dept. of	Nil
the structural phase	Verma	Varshney			Physics.,	
transition in alkaline		memorial			Holkar Sc.	
earth oxides		National			College,	
		Conference on			Indore	
		Physics and				
		Chemistry of				
TIDD 1 FIND	D G D: :	Materials	2010	2.711	- C	2.711
XRD and FTIR	R. C. Dixit	Prof. Dinesh	2019	Nil	Dept. of	Nil
studies of zinc doped		Varshney			Physics.,	
nickel oxide		memorial			Holkar Sc.	
compounds		National			College,	
		Conference on			Indore	
		Physics and				
		Chemistry of				
The array of the second of	Duodoon	Materials  Prof. Dinash	2010	NI:1	Dont of	NI:1
Thermoluminescence	Pradeep	Prof. Dinesh	2019	Nil	Dept. of	Nil
studies of Ce3+ doped	Sharma	Varshney			Physics.,	
Sr2SiO4 phosphor		memorial National			Holkar Sc.	
		Conference on			College, Indore	
		Physics and			muore	
		Chemistry of				
		Materials				
Statistics Construction	R. Awad, B.	International	2019	Nil	Dept. of	Nil
of ALPHA Resvable	Agrawal, S.	Journal of	2017	1 411	Statistics,	1 111
Z-Associates PBIB	Banerjee	Applied social			Holkar Sc.	
Designs	Dunerjee	Science			College,	
2018110					Indore	
Construction of	R. Awad,	International	2019	Nil	Dept. of	Nil
universally optimal	S. Banerjee	Research Journal	2017	1 111	Statistics,	1111
design using 3 <sup>n</sup> –	2. Balletjee	of Agricultural			Holkar Sc.	
factorial designs		Economics and			College,	
140101141 40015110		Statistics and			Indore	
Haematological	Santosh	International	2019	Nil	Dept. of	Nil
	Daireoni		-017	4 144	20pt. 01	4 144

Changes in ClariasBatrachus Due to Cypermethrin Insecticide	Gaherwal	Journal of Scientific Research & Reviews Life Science	2019	Nil	Zoology, Holkar Sc. College, Indore	Nil
Hepatoprotective and antioxidative potential of Zingiberofficinale extract in 7, 12 dimethylbenz(A) anthracene oral carcinogenesis in rodent model	Shukla and V K Sharma	Bulletin	2019	NII	Dept. of Zoology, Holkar Sc. College, Indore	NII
Histopathological investigation of Fasciala Hepatica infected liver of Goats of Indore Region	Santosh Gaherwal	Indian Research Communication Society	2019	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Impact of Thiadiazole as Bombyx Mori Growth Enhancer	Santosh Gaherwal	International Journal of Scientific Research in Biological Sciences	2019	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Narmada Nadi ki Jaliya Gunwataa ka Adhayan	Abida Qureshi	Peer-Reviewed international Journal	2019	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Narmada Nadi me Matasya Prajatiyo ki vividhata, Vartman isthati tatha Unka Sanrakshan	Abida Qureshi	Review of Research	2019	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Seasonal Prevalence & Incidence of Gastrointestinal Nematodes in Goats of Barwani Region (MP)	Santosh Gaherwal, MMP Shrivastava	International Journal of Current Advance Research	2019	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Spatial Variation in Avifaunal Diversity from Various Green Spaces of Indore City, MP	Santosh Gaherwal	International Journal of Current Research & Review	2019	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Study and estimation of species richness of Avian Fauna in Selected sites of Indore City (MP)	Santosh Gaherwal	International Journal of Current Advance Research	2019	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Study of Sodium Arsenate Induced	Santosh Gaherwal	International Journal of	2019	Nil	Dept. of Zoology,	Nil

haematological		Biological &			Holkar Sc.	
Changes in Catfish, Clarias Batrachus		Medical Research			College, Indore	
Toxic effect of Arsenic Trioxide on Biochemical Response in Catfish Clarias Batrachus	Santosh Gaherwal	International Journal of Recent Scientific Research	2019	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Toxicological effects of Arsenic Trioxide Exposure on Haematolical profile in Catfish, Clarias Batrachus	Santosh Gaherwal	International Journal of Current Research & Review	2019	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
2, 4-Dichlorophenoxy acetic acid induced Histopathological changes in kindny of Chlarias Batrachus	Santosh Gaherwal	Journal of Xidian University	2020	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Acute toxicity study on biochemical parameter of catfish, Clarias batrachus exposed to sodium arsenate	Santosh Gaherwal	Eco. Env. & Cons. EM International	2020	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Assessment of Heavy Metal, Arsenic in Chhilpura Pond Water & its Effect on Haematological& Biochemical Parameters of Catfish, Clarias Batrachus	Santosh Gaherwal	Nature Environment and Pollution Technology	2020	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Assessment of Physico-Chemical Parameters and Water Quality Index (WQI) of Dilawara Reservoir of Dhar, M.P., India	Rekha Sharma	International Journal of Life Sciences	2020	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Assessment of Shannon Wiener Index of Birds in Various regions of Indore City, Indore, MP	Santosh Gaherwal	Eco. Env. & Cons.	2020	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Assessments of trace metal bio- accumulation in Lamellidens marginali bivalve of Sirpur and	Rekha Sharma	International Journal of Research and Analytical Reviews	2020	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil

D'11' I -1f		<u> </u>	1			
Bilawali Lakes of						
Indore (M.P.) India Blood Biochemistry of Goat Infected with Nematodes from the	Santosh Gaherwal	Journal of Xidian University	2020	Nil	Dept. of Zoology, Holkar Sc.	Nil
Barwani Tehsil, District Barwani					College, Indore	
(MP), India Comparative Assesment of Acute Toxicity of two	M.M.P. Shrivastava	World Applied Science Journal	2020	Nil	Dept. of Zoology, Holkar Sc.	Nil
Organophosphates(Mo nocrotophos 36 % SL and Dimethoate 30% EC) to fresh water fish Poecilla reticulate( Peters) at two different selected level of pH					College, Indore	
Effect ofn lipid frofile in mice experimentally infected and vaccinated with Aspicularistetraptera	M.M.P. Shrivastava, Santosh Gaherwal	Int. J. Research	2020	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Factors Influencing the Population of Odonates in Pond Habitat of Indore	D. Mishra, V.K.Sharma , Asha Pal	Life Science Bulletin	2020	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Haematological Analysis of Nematode infected Goats from the Urban area of Barwani Dist. MP	Santosh Gaherwal, MMP Shrivastava	Strad Research	2020	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Haematological analysisi of nematode infected goats from the urban area of Barwani District (M.P.)	Santosh Gaherwal	Journal of Xidian University	2020	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
haematological values of nematode (Aspicularistetraptera) infected mice vaccinated with somatic antigen	M.M.P. Shrivastava, Santosh Gherwal	Journal of Xidan University	2020	Nil	Dept. of Zoology, Holkar Sc. College, Indore	Nil
Histological Alteration Caused by Arsenic Trioxide in Catfish Clarias Batrachus	Santosh Gaherwal	Journal of Xidian University	2020	Nil	Dept. of Zoology, Holkar Sc. College,	Nil

										]	Indore	<u> </u>		
Histopatho Liver & K Teleost ClariasBat	idney of	,	Santosh Gaherwal		Uttar Prades Journal of Zoology	h	202	20	Nil	]	Dept. Zoolog Holka Colleg	gy, r Sc.		Nil
Arsenic Co										]	Indore	<b>;</b>		
Chhilpura	pond wa	ater												
3.4.6 h-inc	lex of th	e Instit	utional Pu	blica	tions during	the yea	ar. (ba	ased	on Sco	pus	s/ Weł	of sc	ien	ce)
Title of	Name	-	Γitle of		ar of	h-in	dex		mber o	f		Insti		
the paper	the aut		the	pub	olication				ations	_		affili		
		j	ournal						cluding	sel	f			ed in the
NIST	NISI		NIST		NIST	NI	21	Cita	ations			publ		
Nil	Nil		Nil		Nil	N	11		Ni	<u> </u>			<u> </u>	<u>lil</u>
3.4.7 Facu	lty partic	cinatio	n in Semin	ars/0	Conferences	and Sv	mpos	ia d	uring th	e v	ear :			
N	4.7 Faculty participation in Seminars/Conferences and Symposia during the y No. of Faculty  International level  National level						e level		Local level					
Attended S	Seminars	s/Work	kshops		40			12	120			13		54
Presented	1 1				05		00				00			00
Resource I	Persons				03			07	1		01			06
3.5 Consu 3.5.1 Reve Name of the Consultante department	enue gen ne N t(s) C	ame of		(	ncy during th Consulting/S		ing A	gen	cy			gener in rup		
Nil			Nil			Nil					Nil			
3 5 2 Reve	nue gen	erated :	from Corn	orate	e Training by	the in	etituti	ion (	luring t	he v	vear			
Name of the		Title		oran	Agency see				genera			Num	ber	of
Consultant			amme		training	oming.			in rupe			traine		01
Departmen	` '	0							1	,				
Nil			Nil		Nil				Nil				N	il
3.6 Extens														
	y and No	on- Gov	vernment (		programmes nizations the									
Title of the			ul .		(	Organiz	zing 11	ınit/	agency	/	Num	ber	Nı	ımber of
						collabo	_				of			idents
									•		teach	ners	pa	rticipate
											co-			n such
											ordir		ac	tivities
											in su			
Dlantation	on Vorce	ril Marr	tyr (21/07/	10)	1	Dod Ca	ogg C	00 (	) <sub>r</sub>		activ			20
Plantation	on Karg	ii iviari	tyr (31/0//	19)		Red Cross Soc. &				0	3		20	
Blood Donation Camp (30/12/19)				Biochem NSS, Red Cross Soc. &					1					
Blood Dor	nation Ca	amp (3)	0/12/19)					OSS	Soc. &		0	5		20

Polythene Free Campus Prog. (26/01/20)	Red Cross Soc.	05	25
Lecture on scientific basis of cancer awareness	Red Cross Soc. &		
ad training on CPR (07/02/20)	Biochem.	05	25
Health Checkup camp on women day (07/03/20)	Red Cross Soc., Women		
Treatin Checkup camp on women day (07/03/20)	Empowerment cell	05	50
Poster competition on AIDS Awareness	Red Cross Soc. &		
(17/01/20)	Biochem.	05	15
Poster competition on cancer Awareness	Red Cross Soc. &		
(04/02/20)	Biochem	05	15
Visit to Musakhedi Slum area and Nutrition	Red Cross Soc. &		
Awareness (08/08/19)	Biochem.	05	30
Vigilance Awareness Week (29/10-03/11/19	Red Cross Soc. &	0.7	•
	Biochem.	05	30
Sadbhavna Divas (Shapath) (20/08/19)	NSS	06	50
Plantation: Hariyali Mhotsav 19-20 (11/08/19)	NSS	10	65
Rally against "Food Adulteration" (24/08/19)	NSS	25	65
Women Empowerment Session JUDO/Karate	NSS		
Organized (07/09/19)		10	55
"Kaumi Ekta" Shapath programme" (19/11/19)	NSS	05	45
Street play on AIDS awareness (20/11/19)	NSS & Red Ribbon Club	05	30
AIDS awareness rally (29/11/19)	NSS & Red Ribbon Club	05	25
Rastriya YUVA Diwas celebration (12/01/20)	NSS	05	35
Poster Making competition: "AIDS Awareness"	NSS & Red Ribbon Club		
and "Blood Donation" in college campus) (28-		05	50
30/12/19)			
Lecture on Road Safety (26/02/20)	NSS	04	55
Blood donation camp (01/12/19 at MY Hospital	NSS	08	60
& 30/12/19 in college campus.)		08	00
Eye Checkup camp (17/11/19)	NSS & Red Ribbon Club	05	55
NSS camp (21-27/11/19)	NSS	02	50
Polio Abhiyaan (16/10/19)	NCC	03	55
Kagil Vijay Divas celebration (26/07/19)	1MPBNNCC	03	75
Painting Programme by cadets: on the occasion	NCC	03	30
of Gandhi Jayanti (11/07/19)		03	30
Traffic Control Programme (15/07/19)	1MPBNNCC	02	25
Tikakaran motivation to people	1MPBNNCC	02	28
Helping to Medical Staff	1MPBNNCC	01	55
Cleanliness Drive(Sawccha Bharat) (14/12/19)	9MPBN & 1MPBN NCC	02	70
Awarding Ceremony (24/11/19)	9MPBNNCC	02	20
Visit to Heritage (Kastoorba Gram) (29/11/19)	9MPBNNCC	02	33
Literacy Activities	Dept. of Hindi	04	26
National AIDS Control Program	National AIDS Control	01	50
	Organization & Bot.		
Environment Awareness programme on air	Dept. of Botany	12	60
pollution: Dilip Wghela (30/07/19)			
Plantation Activities: Botanical Garden	Dept. of Botany	10	25
(30/08/19)			
Tagging of Plant: College campus (22/09/19)	Dept. of Botany	05	15
Visit to Jyoti Niwas old age home (14/01/20)	Dept. of Botany	02	20

Vermi compost Training: Kasturba Gram (25/01/20)	Dept. of Botany	02	25
Poster competition: Route of drug Administration and dosage form (30/12/19)	Dept. of Pharma	05	12
Quiz Competition (14/01/20)	Dept. of Pharma	05	25
Astha Old Age Home Visit (14/11/19)	Dept. of Pharma	05	35
Alumni Meet (02/11/19)	Dept. of Pharma	06	35
Research Studies on Unknown Foul Odour of	Dept. of Microbiology	02	05
Indore City" (NovDec. 19)			
Excursion trip: "Parenteral drugs pvt. Ltd.,	Dept. of Microbiology	02	15
Mandlehwar" (22/01/20)			
PTA (04/03/20)	Dept. of Microbiology	05	25
Covid-19 Awareness Programme (04-06/06/20)	Dept. of Microbiology	05	30
Kargil Divas Calibration: Basket Ball Complex,	Dept. of Biochemistry	02	25
Indore (28/07/19).	·		
Programme on Health and Nutrition (16/09 –	Dept. of Biochem &	05	25
12/10/19)	Carrier guidance Cell		
Alumni Meet (03/11/19)	Dept. of Biochemistry	03	25
PTA (15/02/20)	Dept. of Biochemistry	03	20
Mushroom Cultivation training (06/03/20)	Dept. of Biochemistry	03	25
Online Quiz : (Nutrition and Immunology)( 03/06-09/06/20)	Dept. of Biochemistry	03	150
Gosthi-Jal Evam Paryavaran Sankat, Samadhan and Upay (06/08/19)	Dept. of Geology	05	20
Lecture on Air Pollution: July 2019, Geo Tagging on Tree: September 2019, Movie on Environment: October 2019, Drama for environment awareness "Halla- Bol": November 2019, Crop assessment: January 2020, Green good deeds: February 2020, Cleanliness Campaign: March 2020	Dept. of Seed & Hort, Eco Club	10	125
Various activities Under "Ek bharat Shreshtha Bharat" Ek bharat Shreshtha Bharat club established: November 2019, Quiz Competition: December 2019, Essay Writing: January 2020, Film Show: January 2020, Language knowledge & display board activity: January 2020, Clay model lecture & film show: February 2020, Apply Water pot to birds: February 2020	Dept. of Seed & Hort.	02	150
Plantation: August 2019, Parents teacher meeting: September 2019, Farmer's Day: Village Kalod kartal: December 2019, Educational Tour: Tirupati Nursery, Badwah: December 2019 & Eagle Seeds & Biotech LTD: February 2020, Cycle day: January 2020, Alumni Meet: February 2020	Dept. of Seed & Hort.	02	155
Visit to village "Jamlia": Cultural, Social & Health Activities (12/10/2019)	Dept. of Zoology	02	20

National Graduate Physics Examination (IAPT)	Dept. of Physics	05	150
(19/01/20)			
Plantation: 01/08/19, CSIR NET Classes:01/09-	Dept. of Biotech & Bio	15	150
30/11/19, Parents Teacher meeting: 02/11/19, A	Info.		
visit to Jeevan Shala Visharjan Ashram (slum			
area):02/11/19, Science Olympiad: 29/02/20			
			•

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
State level leadership Camp	Two students Bhurelal Dawar and Kusum Dhakad are selected and Participated	State	
03- 09/01/20(NSS)			02
Pre- RDC Camp(NSS) 29/10- 09/11/19	One student Nikhil Khira is selected and Participated	National	01
Pollution Awareness Pakhwada	Awarded By Directorate First Position 9MPBNNCC	Regional	15
RDC(1MPNCCBN Girls)	SUO Aarti Yadav Completed RDC	National	01
RDC(1MPNCCBN Girls)	SGT Rashmi Kumari Made place till decade 1	National	01
RDC(1MPNCCBN Girls)	SGT Nidhi Katare Made place till decade 2	National	01
TSC(1MPNCCBN Girls)	SGT Unnati Jagdale Made place till decade 2	National	01
IGC (9MPMNNCC)	Kamal Nayan Dwivedi Participation	National	01
TSC (9MPMNNCC)	Somesh Parikh Silver Medal	National	01
TSC (9MPMNNCC)	Nikilesh Patidar Participation	National	01
RDC (9MPMNNCC)	Sonal Chawda Drill front line contingent, CM Awardee	National	01
Tracking Camp (9MPMNNCC)	Tejas Ishi Tracking Camp participation	National	01
TSC (2MPBNNCC Armed)	Harsh Gupta, Pallavi Vishwakarma, Dharmendra Chouhan, Lokesh Bhade, Malay Panchakshari, Niranjanee Sharma Participation	National	06
National AIDS Control Program (Bot)	Certificate of recognition	National Aids Control Origination	50

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 d such activities	Number of students participat ed in such activities
Ek Bharat	Dept. of Hindi	Nukkad Natak	04	10
Shrestha Bharat	Dept. of Seed &	Ek bharat Shreshtha Bharat club	02	150
	Hort.	established,		

		Quiz Competition, Essay Writing, Film Show, Language knowledge & display		
		board activity, Clay model lecture & film show, Apply Water pot to birds etc		
Eco Club	Dept. of Seed & Hort. & Eco Club	Lecture on Air Pollution, Geo Tagging on Tree, Movie on Environment, Drama for environment awareness "Halla- Bol", Crop assessment, Green good deeds, Cleanliness Campaign etc	10	125
AIDS & Cancer Awareness	Dept. of Botany & National AIDS Control Origination	AIDS Control	01	50
	Red Cross, NSS	Poster Competition, Lecture & Tr. On CPR, Street Play, Rally etc	08	150
Gender Issue	Red Cross, NSS	Women's day, Judo-Karate etc	05	50
Swacchha Bharat	Red Cross, NSS, NCC	Polythene free campus, Swacchhta Abhiyan etc	08	150
Plantation	Seed Tech. & Hort., Red Cross, NSS	Ek Vidharthi Ek Phodha, Kargil Martyr, Hariyali Mahotsav, Ropan Abhiyan etc	11	145
Visit Old Age Home, Slum Areas	Dept. of For. Sc. & Robin Hood Army (NGO)	Collection of fresh food from hotels, parties and its distribution to the needy.	02	08
	Department of Geology	Distribution of fruits and utility items to the inmates of Nishaktjan Aadhar Welfare Society	02	40
	Red Cross & Dept. of Biochem.	Visit to Musakhedi slum area: Nutritional Awareness Prog.,	02	15
	Dept. of Botany	Visited Jyoti Niwas Old Age Home	02	15
	Dept. of Pharma	Visited Astha Old Age Home	02	20
Voter's Awareness Program	Dept. of For. Sc & District Election Office, Indore (M.P)	Voter's awareness related competitions like Slogan & Essay writing, Debate, Drawing etc. (25.01.2020)	08	21
Research Project	Microbiology Department	Research Studies On Unknown Foul Odour Of Indore City(2019)	05	16

## 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	Duration
		support	
Research Activity (Biochem)	T. Rangwal & Sandhya Sharmal	Nil	2018-2020

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	Duration (From-To)	Participa nt
T	D: E .'''	details	T	00 (PC)
Internship	Bio Fertilizer	Ahilya Goshala Keshar Bag Road,	Jan. to Feb. 2020	08 (PG)
(Bot)	and Gobar	Indore		
	Gas			
d.	production Fruit and	Heatiguitum Denoutment Indone	do	09 (DC)
-do-		Horticulture Department, Indore	-do-	08 (PG)
	vegetable Preservation			
Research	Characterizati	RRCAT Indore	2019-20	01
(Pharma)	on of samples	KKCAT IIIdole	2019-20	01
Internship	Internship	Gurjar Hospital	2019-20 (Jan. to Feb.)	20(UG)
(Micro Bio)	mternsinp	Gurjai Hospitai	2019-20 (Jan. 10 Feb.)	20(00)
-do-	Internship	Kamla Nehru Pranisangrahlay	2019-20 (Jan. to Feb.)	05
-do-	Internship	Shree Pathology	2019-20 (Jan. to Feb.)	06
-do-	Internship	Ipca Laboratory	2019-20 (Jan. to Feb.)	02
-do-	Internship	Shree diagnosis	2019-20 (Jan. to Feb.)	03
-do-	Internship	Dhanwantri Laboratory	2019-20 (Jan. to Feb.)	01
-do-	Internship	Naveen Middle School	2019-20 (Jan. to Feb.)	01
-do-	Internship		2019-20 (Jan. to Feb.)	01
	-	Shree Balaji Pathology	,	01
-do-	Internship Internship	Zenith Drug Laboratory	2019-20 (Jan. to Feb.)	02
	-	Kalpataru Computers	2019-20 (Jan. to Feb.)	+
-do-	Internship	Suyog Pathology	2019-20 (Jan. to Feb.)	01
-do-	Internship	Delhi public School	2019-20 (Jan. to Feb.)	01
-do-	Internship	Piramal enterprises	2019-20 (Jan. to Feb.)	01
-do-	Internship	First Choice Laboratory	2019-20 (Jan. to Feb.)	01
-do-	Internship	Chocolate Botique	2019-20 (Jan. to Feb.)	01
-do-	Internship	Vinayak Pathology	2019-20 (Jan. to Feb.)	+
-do-	Internship	Orange Pathology and Laboratories	2019-20 (Jan. to Feb.)	01
-do-	Internship	Shree Krishana Vidya Mandir	2019-20 (Jan. to Feb.) 2019-20 (Jan. to Feb.)	01
-do-	Internship	City medical investigation Parentral drug Pvt. Ltd.,	2019-20 (Jan. to Feb.)	+
-do-	Internship	Mandleshwar	2019-20 (Jan. 10 Feb.)	16 (PG)
Training	Internship	Geological Survey of India	24/01-01/02/20	09
Training (PG-Geo)	шстияпр	Geological Survey of Illula	2 <del>4</del> /U1-U1/U2/2U	U9
-do-	Internship	Manganese Ore India Ltd	01/01 - 31/01/20	05
Training	Internship	Mining Officer, Indore district,	01/01 - 31/01/20	40
(UG-Geo)	пистынр	Mandasour district and Neemuch		40
(00-060)		District, M.P.		
-do-	Internship	Rajeev Gandhi Water Shed		10
·uo	memsinp	Mission, Panchayat Office,		10
		Panchayat Bhawan, Indore		
-do-	Internship	Rajmi Geoexploration &		10
uo-	memomp	Engineering Pvt. Ltd, Indore		10
-do-	Internship	Ultratech Cement Ltd. Vikram		12
ao	memomp	Cement Works, Vikram Nagar,	_	12
		Khor, Distt. Neemuch, M.P.		
-do-	Internship	M/s. S. S. Exlploration		25

		Enterprises,80, Anurag Nagar, Indore, M.P.				
-do-	Internship	Western Railway, Construction –			12	
		II, Indore, M.P.				
	_		al, international impo	ortance, other in	stitutions, i	ndustries,
corporate h	ouses etc. during	the year				
Org	anization	Date of MoU	Purpose and A	Activities	Number of	of
		signed			students/t	eachers
					participat	ed under
					MoUs	
Research in	stitute of Org.	15/12/2019	Research and Student Exchange		Awaited for	
Agri. Switz	erland (Bot)		Program		Renewal	
Governmen	t Institute of	09/09/2019	Exchange of resear	chers,		
Forensic Sc	eience, Nagpur,		students, publication	ons, books,	N	IIL
Maharashtra	a (For. Sc.)		academic programs	s and research		
			projects.			
PG Tech Re	esearch Institute		Training Prog.		30 (P	harma)
PG Tech Re	esearch Institute		Internship by UG S	Students	35 (P	harma)
PG Tech Re	esearch Institute		Certificate course		28 (P	harma)
Govt. Mata	Jijabai Girl's	08/07/2019	MOU for Academi	c and	N	Vil
PG college,	(Micro Bio)		Scientific cooperat	ion		
Index Medi	cal College	11/10/2019	For Students internship and		Stud	ent 17
Indore (Bio	tech & Info.)		training, For Know and Research Activ	-	Teach	ners 02

4.1.1 Budget allocation, e							
Budget allocated for		Bud	lget utilize	ed for infrastru	icture develo	pment	
augmentat				22721220	<u> </u>		
3400000	0			33721330	)		
4.1.2 Details of augmenta	ation in infrastruc	cture facilities	during th	e year			
Facilities			<u> </u>	Existing	New	ly added	
Campus area				34 Acres		Nil	
Class rooms				51		Nil	
Laboratories				44		Nil	
Seminar Halls				05		Nil	
Classrooms with LCD fac	cilities			25		Nil	
Classrooms with Wi-Fi/ I	LAN			15		Nil	
Seminar halls with ICT fa	acilities			04		Nil	
Video Centre				Nil		Nil	
No. of important equipme	ents purchased (≥	≥ 1-0 lakh) du	ring the	48		09	
current year.		1 (5	•		10	44.500.4	
Value of the equipment purchased during the year (Rs. in					104	10417084	
1 1 1	_						
Lakhs)				NI:1		NT:1	
Lakhs) Others  4.2 Library as a Learning		Library Mar	nagement	Nil System (ILM	MS)}	Nil	
Lakhs) Others  4.2 Library as a Learning 4.2.1 Library is automatically automatically and the ILMS					Year		
Lakhs) Others  4.2 Library as a Learning 4.2.1 Library is automa  Name of the ILMS software	Nature of auto partially)	mation (fully		System (ILN	Year	of nation	
Lakhs) Others  4.2 Library as a Learning 4.2.1 Library is automated automate	Nature of auto partially)			System (ILM	Year	of	
Lakhs) Others  4.2 Library as a Learning 4.2.1 Library is automa  Name of the ILMS software	Nature of auto partially)	mation (fully	or Ver	System (ILN	Year	of nation	
Lakhs) Others  4.2 Library as a Learning 4.2.1 Library is automated automate	Nature of auto partially)	mation (fully	or Ver	System (ILM rsion 2.0	Year auton	of nation	
Lakhs) Others  4.2 Library as a Learning 4.2.1 Library is automated automate	Nature of auto partially)  Exist	mation (fully Fully	or Ve	System (ILN rsion 2.0	Year auton	of nation 2015	
Lakhs) Others  4.2 Library as a Learning 4.2.1 Library is automated automate	Nature of auto partially)  Exist	omation (fully Fully ing Value	New No.	System (ILN rsion 2.0 ly added Value	Year auton Tot	of nation 2015 al Value	
Lakhs) Others  4.2 Library as a Learning 4.2.1 Library is automated automate	Nature of autopartially)  Exist No. 63149	Fully ing Value	New No.	System (ILN 2.0 2.0 ly added Value	Year auton  Tot No. 63149	of nation 2015 al Value	
Lakhs) Others  4.2 Library as a Learning 4.2.1 Library is automated automate	Nature of autopartially)  Exist No. 63149 28890 Del-net 3791	Fully  Fully  Value	New No.	System (ILM sion 2.0 ly added Value	Year auton  Tot No. 63149 28890	of nation 2015 al Value	
Lakhs) Others  4.2 Library as a Learning 4.2.1 Library is automated automate	Nature of autopartially)  Exist No. 63149 28890 Del-net 3791 Infilbnet	Fully  ing  Value	New No.	System (ILN 2.0  2.0  ly added Value	Tot No. 63149 28890	of nation  2015  al  Value	
Lakhs) Others  4.2 Library as a Learning 4.2.1 Library is automated automate	Nature of autopartially)  Exist No. 63149 28890 Del-net 3791 Infilbnet 65121	Fully  Sing Value	New No.	System (ILN 2.0  2.0  ly added Value	Tot No. 63149 28890	of nation  2015  cal Value	
Lakhs) Others  4.2 Library as a Learnin 4.2.1 Library is automa Name of the ILMS software  SOUL 4.2.1 Library Services:  Text Books Reference Books e-Books Journals pigital Database CD & Video	Nature of autopartially)  Exist No. 63149 28890 Del-net 3791 Infilbnet 65121 350	Fully  ing  Value	New No	System (ILN 2:0)  2.0  ly added Value	Tot No. 63149 28890	of nation  2015  cal Value	
Lakhs) Others  4.2 Library as a Learning 4.2.1 Library is automated automate	Nature of autopartially)  Exist No. 63149 28890 Del-net 3791 Infilbnet 65121	Fully  Fully  Value	New No	2.0  ly added  Value	Tot No. 63149 28890	of nation  2015  cal Value	
Lakhs) Others  4.2 Library as a Learnin 4.2.1 Library is automa  Name of the ILMS software  SOUL 4.2.1 Library Services:  Text Books Reference Books e-Books	Nature of autopartially)  Exist No. 63149 28890 Del-net 3791 Infilbnet 65121 350	Fully  Fully  Value	New No	2.0	Tot No. 63149 28890	of nation  2015  cal Value	

Platform on which

Date of

Name of the module

Name of the teacher

		module is developed	launching
			e - content
Dr. MMP Shrivastava	Syllabus of B.Sc. I & II	Online	Aug. 2019
Dr. K Billore	Syllabus of B.Sc. I & II	Online	Aug. 2019
Dr. R Sharma	Syllabus of B.Sc. I & II	Online	Aug. 2019
Dr. V K Sharma	Syllabus of B.Sc. I & II	Online	Aug. 2019

#### **4.3 IT Infrastructure**

4.3.1 Technology Upgradation (overall)

	Total	Comput	Internet	Browsing	Computer	Office	Departm	Available	Others
	Comp	er Labs		Canters	Centres		ents	band width	
	uters							(MGBPS)	
Existing	270	13	Yes	03	02	18	21	100MBPS	
Added	70	Nil	Yes	Nil	Nil	Nil	Nil	Nil	
Total	340	13	Yes	03	02	18	21	Nil	-

### 4.3.2 Bandwidth available of internet connection in the Institution (Leased line)

#### **100MBPS**

#### 4.3.3 Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre
	and recording facility
Nil	Nil

#### **4.4** Maintenance of Campus Infrastructure

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned budget	Expenditure incurred	Assigned budget on	Expenditure incurred on
on academic	on maintenance of	physical facilities	maintenance of physical
facilities	academic facilities		facilities
7000000	6890430	27000000	26830900

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)

#### **Response:**

The college has its Maintenance Policy which was implemented in 2015. (http://www.collegeholkar.org)

The college has a lush green campus spread in 34 acres of land. For academic activities the college has a number of buildings like the historical Red Building, Yashwant Hall, Main Office Block, Academic Block, Library, The Examination Department, Various Life Sciences Departments, Boys Hostel and Staff Quarters. The buildings are constructed with state-of-the-art technologies, which consist of energy efficient, water conserving and sustainable building materials. All the buildings are well connected through well maintained roads. The College has huge sports grounds where the sports and physical activities are carried out.

The college has a dedicated engineering section maintained by PWD. The department looks after the periodic maintenance of the buildings, the roads, excessive rainwater and grey-water drainage. The engineering department maintains the buildings by painting them at regular intervals apart from civil repairs and other maintenance as per the necessity or on request.

There are 14 science departments with well equipped laboratories, computers, other useful gadgets and ICT facilities. There is a separate research wing in the college where researchers and scholars can work independently.

Adequate provision in the budget is made by the Janabhagidari Samiti and the State Government to conduct the above activities smoothly

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

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

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

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

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

5.1 Student Suppor	rt		
5.1.1 Scholarships a	and Financial Support		
	Name /Title of the scheme	Number of students	Amount in Rupees
Financial support from institution	Half Free ship	42	171200
Financial support fro	om other sources		
a) National	SC	705	12258769
	ST	110	2020542
	OBC	444	9578860
	Gaon Ki Beti	223	1115000
	Pratibha Kiran	38	190000
	Nishaktjan	07	82000
	MMV	2901	43015000
	NFHE(Zoology)	02	50000
	Total	4430	68310171
b) International	Nil	Nil	Nil

5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Remedial Classes (Zoology)	2019	08	Dept. Faculties (World Bank Pariyojna/RUSA)
Remedial classes(Pharma)	21/11/19	30	-do-
Remedial Classes (Chemistry)	01/10-29/02/20	List??	-do-
Remedial Class(English)	??	25	-do-
Tr. Prog. on "Advanced Agro Techniques for Entrepreneurship Development"	22/01-14/02/20	25	Dept. of Botany & Carrier Guidance Cell
Hands on Training Programme on Mushroom Cultivation for self employment	10 -11/10/19	30	Dept. of Horticulture & Seed Technology
Lecture on Bio Diversity (Dept. of Zoology & Fisheries & Carrier Guidance Cell)	02/03/20	25	Resourse Person: Dr. C.S. Shrivastava
Short term employment oriented Tr. On "Health and Nutrition"	16/09-12/10/19 & 02-31/12/19	40	Dept. of Biochem. & Career Guidance Cell
'SWOT' (Carrier Guidance Cell)	29/07/2019	45	डॉ. कान्ता मूलचंदानी,ए डॉ. सुवर्णा तनवानी,डॉ. भारती सिसोदिया,डॉ. सोना सांक्ते, शासकीय होलकर विज्ञान महाविद्यालय, इन्दौर
Lecture: C.V. Writing(Carrier Guidance	30/09/2019	45	Mr. Pankaj Kothari,

Cell)			
Lecture: Mock Interview (Practical)	04/10/2019	35	Mr. Pankaj Kothari,
(Carrier Guidance Cell)			Trainer and P.D. Coach
<b>(व्याख्यान)</b> ''राजीव गाँधी का सपना'' आई.टी. –	11/11/2019	50	डॉ. संजीदा इकबांल,
कम्प्यूटर में अग्रणी देश हो अपना (निबंध एवं			शासकीय होलकर विज्ञान महाविद्यालय, इन्दौर
परिचर्चा) छात्रों में आई.टी. से सबन्धित कार्य क्षेत्र			इत्यार
पर चर्चा।(Carrier Guidance Cell)			
Lecture: Career Aspects of Bio Sciences	12/12/2019	45	Mr. Mridul Kumar Pathak,
Students in Conservation of National			Chief conservator Officer
Parks. (Carrier Guidance Cell)			and ex field director,
			Bandhogarh National Park.
Lectures: 1. Career Opportunities in	30/01/2020	55	Shri Shailesh Tiwari &
Govt. Sector.			Prof. Rishi Mathur –
2. Assessment of Aptitude through hand			Graphologist
writing. (Carrier Guidance Cell)			
Lectures: Bio Diversity Conservation	02/03/2020	50	श्री अनिल नागरए श्री अजय गड़ीकरए डॉ. सुशांत पुनेकरए डॉ. उत्तम यादवए डॉ. सी.
Through a lens of a Forester,			एस. श्रीवास्तव
Technology for Avian Studies, Wild			
Life Sustainability and Management,			
Zoo Management, Biodiversity (Carrier			
Guidance Cell)			
Lecture on Job Opportunities in	15/01/2020	20	Mr. H.S. Tuteja, (Questioned
Questioned Documents (Carrier			Document Expert)
Guidance Cell & Dept of For. Sc.)			
Forensic Examination of Blood,	23/04/2020	20	Mrs. Aayushi Dhariwal
Bloodstains and Blood Grouping			(Forensic Professional)
System (Carrier Guidance Cell & Dept			Central Forensic Science
of For. Sc.)			Laboratory Bhopal (M.P.),
To Door on "One or in Females for	28/02-	35	India (Comion Childenes Coll %
Tr. Prog. on "Organic Farming for		33	(Carrier Guidance Cell &
Sustainable. Development and Conservation of Environment" (Carrier	03/03/2020,		Dept of For. Sc.)
Guidance Cell & Dept of Seed & Hort.)			
Lecture on career opportunities in	26/11/2019	25	Mr. Bhupesh Sakalle,
	20/11/2019	23	<b>1</b> /
Geology (Carrier Guidance Cell & Dept			Alumnus of Dept.
of Geology)			Geology, GIS specialist,
			Canada
''नैतिक मूल्य और विद्यार्थी जीवन''(Carrier	07/11/2019	35	वरिष्ठ साहित्यकार,डॉ. सूर्यकांत नागर
Guidance Cell)	07/11/2017	33	
Personality Development &	23/09-14/10/19	94	Mr. Manoj Kothari as
Communication Programme (Career	25/07 17/10/17	74	Resource person
Guidance Cell & Dept. of Chemistry)			Tiesosies person
Language Lab (Career Guidance Cell &	23/09-14/10/19	94	College Faculties
Dept. of Chemistry)			
Yoga &Meditation(Career Guidance	23/09-14/10/19	94	College Faculties
Cell)			_
Personal Counselling and Mentoring	23/09-14/10/19	94	College Faculties
(Career Guidance Cell)			

Repairing	Hardware, Equ & fabrication t (Career Guida: lectronics)	raining	18/11-1	6/12/	/19	30	Team Kirar Elect	Carkeshwar Vyas & his n, Vyas Computer, n Robotix, Sai ronics & Electronics ectrical
Tr. On Bas Python(Ca of Electron	Tr. On Basic Programming with Python(Career Guidance Cell & Dept.		2019	2019-20		36		strial Expert.
Tr. On Em	bedded System o (Career Guida		2019	9-20		20	Indus	strial Expert.
	andolan (Perso	onality	21/08	3/2019	9	80	Dr. V	ikas Dave
Aatankvad	l Samasya Evan ty Developmen		09/09	/2019	9	124	Dr. Y	ogendranath shukal
Gandhi Ev	am Aatmnirbh	arta	10/10	/2019	9	72	Dr. V	ikas Dave
	ty Developmen k ke Vichar (Pe ent Cell)		27/11	/2019	9	92	Dr. T	rupat Kaur Chawla
	h Ke Kranti (Pe	ersonality	28/01	/2020	O	65	Dr. S	anjay Jain
		Meetings with H	R of Various	Com	panies	(Placemen	t Cell)	
Divergent pvt. Ltd.	gent Software Labs 10.10.2		2019			80		Ankit patel
iLEAD			2019	2019			Ms. I	Riya Wora
	Pharmalab	08.11.					_	Shreya Bhatt
Sahaj Rego	enerative Cell	10.12.	2019				Ms. I	Megha Vankhade
Therapeuti Pantaloon		27.12.	2010	_			Ma	Abhishek Sharma
	ratories Ltd.	10.02		1				Sourabh Jain
_				1				
CIPLA PII	armaceutical	08.05.	.2020				IVIS. I	Preeti Pawar
	ion during the	year						ounselling offered by
Year	Name of the	Number of	Number o			er of stude		Number of students
	scheme	benefited	benefited			ave passed		placed
		students by	students b	y	tne co	mpetitive	exam	
		Guidance	Career	n a				
		for	Counsellin activities					
		Competitive examination	activities					
2019-20	Competitive Exams	160			NET: 02(Fo	rensic Scie	ence)	Nil
	Zamio			(	02(Cc	mputer Sc	ience)	
						: 01(Zoolo		-
				_		E: 06( Geol Govt. Ser.:		-
						hemistry),		
<u> </u>					00 (C	nemisuy),		1

						01/7:01	)			
						01(Zool	ogy)			
						UGC JR	F:			
						01(Fore		eience)		
						Others:				
2019-20	Career			75	0				Campus	Placement
	Guidance:								in Variou	
									Compani	es(On
									Campus	: 63
										Placement
									in Variou	
									Compani	*
									Campus)	
FD ( )			<u> </u>				•••		01(Pharn	
Total		1	60	75	0		20			64
sexual har	tutional mechar assment and rag	gging c	ases du	iring the	year					
Total griev	vances received		No. of §	of grievances redressed Average num grievance red		-	•	for		
	Nil			N	Nil			Nil		
5.2 Studen	nt Progression									
	ils of campus p		nt durir	ng the ye	ear					
			C	n camp	us					Off
										Campus
Name of Organizations Visited				er of Stud	dents	Number		Number of		
				Partic	ipated		Student	s Placed	Students	
										Placed
LUPIN, Pithampur (off campus)				01				01(Pharma		
D'	C C T 1		1			100			20	Chem.)
iLEAD	Software Labs	pvt. Lt	a.			100 150			)9	
	Dharmalah I a	ha Dut	I +d			50			)5 )5	
•	e Pharmalab Ladenerative Cell					60			)5 )5	
Sanaj Reg		петаре	autes					)5 )5		

gradu from admitted to enrolling into higher ated education from Govt. Holkar Science College M.Sc. Zoology 2019-20 29 B.Sc. Zoology Govt. Holkar Science College M.Sc. (Pharma. 2019-20 22 Pharma B.Sc.

5.2.2 Student progression to higher education in percentage during the year

Department

graduated

Chem.

Progr

amme

Pantaloon Pvt. Ltd.

**Total** 

Year

Ipca Laboratories Ltd.

CIPLA Pharmaceutical

Number of

students

30

40

50

492

Name of institution joined

05

09

08

**63** 

Name of

Chem.)

Programme

01

2019-20	04	R	.Sc.	Biotechno	logy	Govt Holkar	Science College	M.Sc. (Biotech.)	
2017-20	03		.Sc.	Biotechno			Science College	M.Sc. (Botany)	
	02		.Sc.	Biotechno			Science College	M.Sc. (Zoology)	
<u> </u>	01		.Sc.	Biotechno			Science College	M.Sc. (Chemistry)	
2019-20	07		.Sc.	Comp. So			Science College	M.Sc.(Comp. Sc.)	
2019-20	10		.Sc.	Electroni		Govt. Holkar	Belefice Conlege	PG	
						ional level exa	minations during		
	-						es/State Governme		
Items		No. of S					r/roll number for	<u> </u>	
Tems		selected			Regi	stration numbe	a/Ton number for	the exam	
NET				Science)	MPO	3503228, MP0	705200663		
1,21				Science)		705203650, M			
SET		32(332	- <u>F</u>	~		, , , , , , , , , , , , , , , , , , , ,			
SLET		01(Zoo	logy)		1512	20646			
GATE		06( Geo					GG20S43028136,	GG20S42051041,	
		`	<b>03</b> /				G20S48006066,		
GMAT									
CAT									
GRE									
TOFEL									
Civil Service									
State Gover	nment	06 (Che	emistry) Not available						
Services		01(Zoo			6006015221				
Any Other			Chemistry) Not Available						
(UGC-JRF)				Science)		3503228			
5.2.4 Sports	and cul				ions c	organised at the	institution level of		
			Activi	ity			Level	Participants	
Basketball(			)				Division Level	180	
Tennis(M) (							Division Level	35	
Tennis(M) (				<u> </u>			Division Level	50	
Teachers/Er				0)			Division Level District Level	450	
Volleyball(N						250 180			
Volleyball(V			)						
Football(M)							District Level	250	
Borans Cup			М.			M. C: 1 10	District Level	350	
Awareness (	•		ivie	ntai Fitne	SS W	ith Covid-19	National Level	350	
	`		munit	v & Door	oo by	Meditation"	National Level	330	
(21/06/20)	т шр	iove iiii	IIIuIIII	y & read	Je by	Meditation	Ivational Level	300	
Training car	nn were	organiz	ed dui	ring the ses	sion f	or various	College level	450	
							conege level	150	
games: Volleyball, Basketball, Softball, Chess Judo Karate training camp for girls in self def						College level	150		
Yoga trainir			0				College level	145	
Various gan			the oc	casion of a	nnual	function	College Level	1200	
						rious culture	College level	1500	
activities &		_			*		Č		
College leve	el Inter	class you	th fes	tival organ	ized (	26-28/09/19):	College level	50	
						Group song			

(Western, Ger Filmy), Instrument (Solo-Non perkusan tal		
vadhya, Thap) competitions were organized		
College level Inter class youth festival organized (26-28/09/19):	College level	55
Debate, Speech, Quiz, Poster making, On the spot, Colas, clay		
modelling, cartooning, Rangoli competitions were organized		
College level Inter class youth festival organized (26-28/09/19):	College level	55
Dance (classical), Group dance (Folk base), Ekanki, Maims,		
Skit, Mimicry competitions were organized		
Inter collegiate youth festival organized (03-05/10/20) were	District level	100
organized		

# **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	National/	Sports	Cultural	Stude	Name of the
	award/ medal	Internation	A P S S S S		nt ID	student
		al			numb	
					er	
2019-20	Winner	State Level	Table Tennis			Zainab Khan
2019-20	Winner	State Level	Table Tennis			Shivani Patidar
2019-20	Representation	University	Cricketl			Sagar Barde
2019-20	Representation	University	Cricketl			Bhumika Chauhan
2019-20	Representation	University	Volleyball			Mahi Sharma
2019-20	Representation	University	Volleyball			Deeksha Barde
2019-20	Representation	University	Volleyball			Sakshi Mandloi
2019-20	Representation	University	Table Tanis			Zainab Khan
2019-20	Representation	University	Athletics			Mahak Khan
2019-20	Representation	University	Chess			Akshita Dubey
2019-20	Representation	University	Hockey			Himanshu
						Verma
2019-20	Representation	University	Hockey			Tejaswini Goud
2019-20	Representation	University	Football			Shobha Yadav
2019-20	Representation	University	Football			Megha Yadav
2019-20	Representation	University	Boxing			Rashmi Kumari
2019-20	Representation	University	Baseball			Jaya Mourya
2019-20	Representation	University	Volleyball			Sumit Raghuwanshi
2019-20	Representation	University	Table Tennis			Shivani Patidar
2019-20	Representation	University	Softball			Jaya Mourya
2019-20	Representation	University	Softball			Deepika Patel
2019-20	Representation	National		Writing Competition		Mausam Rajput
2019-20	Representation	National		Poetry		Mausam Rajput
2019-20	Representation	National		Elocution		Mausam Rajput
2019-20	Representation	National		Essay Writing		Mausam Rajput
2019-20	Representation	State level		Debate		Mahi Sharma
2019-20	Representation	State level		Speech		Mahi Sharma
2019-20	First & Running Trophy	University		Debate (organized by Maheshwari College)		Anirudh Chandrawanshi, Nikhil Neve
2019-20	Representation	University		Debate		Utkarsh Mishra

2019-20	Prashsti Patra	National	 Indian Book of	 Gajendra
			Record (Maximum	Sharma
			word heritages sketched on waste coconut shells )	 Radhika Udawat
2019-20	Second	University	 Debate (organized	 Nikhil Neve
2019-20	Third		by Abhyas Mandal)	Raksha Yadav
2019-20	First	University	 Dance (organized	 Nikhil Kheera
			by Arihant College)	
2019-20	Third	University	 Group Dance	 Rinkesh and
			(organized by	Diksha
			Arihant College)	
2019-20	Performance	State level	 Group Dance	 Souabh Gadwal
			(State level Youth	
			Fest. At APS Univ.	
			Rewa)	

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

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

## **5.3 Alumni Engagement**

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

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

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

The association helps the development work of the college. During the alumni meeting feedback is collected on curriculum and college environment through a structural format. As the college is around 125 years old, many alumni of this prestigious institution serve as faculty, as sports personal, as Industrialist/entrepreneurs, as Bank professionals, as NGO, as Doctors, as IT professional, in Film Industry, as Researcher, as Literary person, as Scientist, as Freedom Fighters, as Journalist, as Administrator, in Judiciary Service, as Politician, as Academician, in Defence etc. During the session on 24/06/20 the online alumni meet organized by the college around 331 alumni across the country/world were join this meet and gave their feedback, made suggestions for the betterment of the institution. Apart from these various Departments have departmental alumni association. These departments organize alumni meets time to time. During the session alumni meet organized by Seed & Hort., Biochemistry departments. In these meetings the feedback are taken, analyze and taken steps as per feedback.

## 5.3.2 No. of registered Alumni:

407

## 5.3.3 Alumni contribution during the year (in Rupees):

OHA – Nil, Alumni of Horticulture & Seed Dept.: Rs.5000, Alumni of Biochemistry Dept.:30000;

## 5.3.4 Meetings/activities organized by Alumni Association:

OHA: 01, Horticulture & Seed Dept.: Meeting - 02, Activity - 01; Biochemistry Dept.: Meeting: 03, Activity - 01; Biochemistry - 01; Biochemistry

Activity: 01( Golden Jubilee Celebration 03/11/2019)

### CRITERION VI -GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### **6.1 Institutional Vision and Leadership**

6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)

#### **Response:**

Holkar Science College, Indore is one of the most prestigious institution in central India. It is an autonomous institute since 1989. The College practices both decentralization and participative management at three levels i.e. at Academic level, Administrative level and by the Examination Department.

For academic activities, the departments are given sufficient autonomy. The principal appoints head of the departments under the decentralized policy. The HOD's along with the faculty members take various decisions for the smooth functioning of the department. The committees, various cells etc are formed by the administration that looks after the various schemes, admission process, finance, career counselling for the students etc. The entire college is involved and participates for the betterment of the institution.

At administrative level also, the college practices decentralization and participative management. The budget allotted by State Govt./UGC/ Janbhagidari Samiti is distributed to various departments according to their requirements. The heads of teaching departments are responsible for the utilizing the sanctioned amount as per state Govt. rules and instructions given by the administration and purchase committee. Further, beyond those levels, the financial decisions are taken at College administrative level by A/O and the principal. Permission for exceptional proposals is put up in Governing body meeting and in front of Janbhagidari Samiti for approval.

The activities related to examination are controlled by the Examination Department headed by the controller and deputy controllers along with supportive office staff. Examination department makes the examination schedule. The college follows semester system at UG and PG levels. From the year 2017 college adopted annual system at UG level.

6.1.2 Does the institution have a Management Information System (MIS)?

Yes/No/Partial:

#### **Partial**

#### **6.2 Strategy Development and Deployment**

6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

#### **Curriculum Development:**

College follows the syllabi designed by Central Board of Studies under the Department of Higher Education. The College has its own board of studies in each department. Departmental Board of Studies of the college approves the syllabi proposed by the Department of Higher Education. The College has the autonomy of 10% enhancement in the proposed syllabi at UG level for their respective courses for maintaining the standards of instruction. Framing of Guidelines for examination and valuation is conducted by the examination department. At PG level Credit based choice system has been implemented with open elective papers. This approach aims to empower learners to shape their education through choices. Each year the syllabi are revived/revised accordingly in the presence of the subject experts. It involves planning, identifying, modifying and evaluating the content according to the learner. The reviews are done on the basis of practical requirements and industry needs. The developed curriculum is adapted in relevance with Regional/National/Global development needs. The contents of the syllabus is oriented toward generating employability, entrepreneurship and skill development. The curriculum design teaches

students how to look at a problem and formulate a solution. Considered an authentic form of learning because students are exposed to real-life issues, this model helps students develop skills that are transferable to the real world. Problem-cantered curriculum design has been shown to increase the relevance of the curriculum and encourages creativity, innovation and collaboration in the classroom.

#### **\*** Teaching and Learning

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, distribution of marks of internal assessment are framed by the examination department. Each department maintains the record of syllabi covered every month and ensures that the tests, assignment, presentations etc are conducted. Moreover the departments ensure the Internal Assessment monitoring, record of attendance, sending the marks of assignments, internal exams, tests and projects to examination department. The college follows semester system at BCA(UG) and PG levels. From the year 2017 college adopted annual system at B.Sc.(UG) level. For B.Sc.(UG) courses, 2 internal exams (Quarterly & Half yearly), assignments are mandatory followed by one final exam in each year. For BCA(UG) courses, 2 internal assignments (CCE) are mandatory followed by final examination 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 CCE of the students is ensured through test, assignments, seminars etc. and there is a written examination at the end of the semester. In order to maintain confidentiality and academic standards it mandatory that at least 50% of the exam papers are set by the external setters. The college follows a centralized pattern of valuation at UG level and PG level valuation is done by the setter. Examination results are made available on college website, student can download the provisional mark list. The various steps are taken to evaluate of answer books- Mixing, coding, valuation, scrutiny, review, decoding, data-entry, results on website. Mandatory moderation of question paper before the commencement of examination. Provision to show valued answer sheets on the request of the students in the presence of the subject experts and guardian to satisfy the students by removing their doubts. Here students can challenge the valuation. Revaluation done by two examiners. Examiner for M.Sc. practical exams and for M.Phil. Viva voce are from outside the native university.

### \* Research and Development

The college has a College Research Cell. This cell provides guidance to faculty about funding agencies promotes interdisciplinary research and monitors progress of research activities, motivates faculties to publish research papers in peer reviewed journals with high global impact factor for quality research, motivates to submit the Major/ Minor research projects to funding agency.

Motivates faculties to attend seminars and workshops and presenting research papers. College has registered as research centre in six subjects. College has facilities for research work. Rresearch labs have emerged as specialized areas involve new research ideas and promote research culture. It encourages the students to undertake the research in the new fields. New high tech instruments like FTIR, IR etc. are available in labs. Every teaching departments of the college has been equipped with internet in order to facilitate research activities. Latest research journals are available in the departments and in the library. For e-journals and e-books del-net is installed in library. The college follows two types of research:

- 1. Basic Research: This type of research system is followed at PG level on the basis of small project and assignments.
- 2. Applied Research: This type of research is mainly followed in PG and Post PG research where students focus mainly on more specific and directed objectives and investigations.

During the session one major project (Physics) is ongoing, one symposium on IPR, one workshop on IPR, About 32, Seminar/Workshop/FDP/Webinar were organized by the institute during the session. 14 Ph.D. awarded under the guidance of faculties, 82 papers published in various journals of national & international repute by the faculties, about 227 participations, 05 paper presentations by the faculties during the session.

### **\Library, ICT and Physical Infrastructure / Instrumentation**

The library is fully automated and has 63149 text books and 28890 reference books all bar coded, 3791 Journals, 350 CDs, 660 Thesis, 65121 digital database. 25 computers. Del-Net, INFLIBNET, e-journal facility is available in the library. Library is fully automated by SOUL 2.0 ILMS software. Some PG departments have separate departmental libraries e.g. Biochemistry, Microbiology, Pharmaceutical chemistry, Horticulture and Seed Tech. etc. Facility of LCD projector for effective audio-visual teaching learning, ICT technology is used as effective teaching tool, IT lab and instrumentation rooms, available for students. The college spread in 34 acres of land having 51 classrooms, 44 laboratory, 05 seminar halls, one auditorium (Yashwant hall), Indoor and Outdoor sports facilities, one boys Hostel is available in the college. New constructions are also in progress.

#### **\*** Human Resource Management

The college has a well-defined administrative set up for the smooth functioning of the institution. While the Principal as the head of the institution remains at the helm of all the academic and administrative affairs in the college, the administrative officer serving as a link between the principal and the other staff members facilitates day to day administration of the institution. Every teaching department is headed by a senior professor entrusted with the administrative and academic responsibilities of that particular department. The recruitment of the permanent employees is done by the Department of Higher Education Govt. of M.P.. The salary and other benefits related to finance, leaves, health etc. are regulated and implemented as per the rules laid down by the department of higher education. The recruitment of the temporary employees is done by the college authorities as per the rules laid down by the department of higher education. Confidential performance appraisals are regularly filled, Personal files well maintained. The college has computerized account keeping and administrative system. Pay slips and PF statements of employees are transmitted electronically. Grievance redressal cell is active to resolve the grievances of the employees and students.

#### **!** Industry Interaction / Collaboration

Educational Trips to Industries are organised by department of Microbiology and department of Pharmaceutical Chemistry for M.Sc. students to help them understand the working of various Industries and Laboratories with regard to their subjects in syllabus and with respect to various job opportunities. Students are prepared for interviews by arranging lectures of various eminent personalities working in various sectors. They make students aware about the scope and environment of the companies. Department of pharmaceutical chemistry has collaborated with PG Tech research

institute (PGTRI) and certificate courses are organized yearly with collaboration with this institute during the session. Collaborative support for internship and field training from different government, public sector and private organization such as GSI, ONGC, MOIL, Rajami Geo-Exploration and SS enterprises. Placement Cell of College provides the students with exposure to resume writing, soft skill training and employment opportunities. Companies are invited to conduct interviews, offer internships and hold talks and discussions. Linkages and Collaborations: National institutes — Institute of Excellence in Higher Education (IEHE), Bhopal (M.P.), Dr.H.S.Gour University, Sagar, PG Tech. Inst., ONGC, Directorate of Geology and mines, Manganese ore India Ltd., Hindustan Copper Ltd., DAVV Indore, RR CAT Indore, NRCS Indore, IUC Indore, MGMMC Indore, Parental Drug India Ltd. Indore, Disha Fertility Centre Indore, NFI Ltd. Dewas, IVRI Barelly (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, Noble Alchem Pvt. Ltd. (Agribooster), Sanwer Road, Indore, M.P., Tuteja's Forensic Examination and Research Centre, Indore. International institutes - Research Institute of Organic Agriculture, Switzerland. During the session college has sign MOU's from Research institute of Org. Agri. Switzerland (Dept. of Botany)(renewal), Government Institute of Forensic Science, Nagpur, Maharashtra (Dept. of For. Sc.), Govt. Mata Jijabai Girl's PG college, Indore (Dept. of Micro Bio), Index Medical College Indore (Dept. of Biotech & Info.).

#### **Admission of Students**

The admission process is highly transparent. Rules and regulations of the Department of Higher Education Govt. of M.P. are strictly Followed. Admissions are purely merit based. At UG and PG level candidates are required to apply on-line through admission portal of Higher Education Department along with choice of colleges/Programmes/courses. After that on the merit basis as per the allotment the students can seek the admission in the college. For vacant seats, at the end of merit round, admissions are open for all and filled by college level counselling on merit basis from the present candidates. Entrance test followed by interview is mandatory for admission to M.Phil. Courses. The faculty and office staff of the college is involved in administration, verification and admission process.

#### 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. Students profile has also been created on the website. A student can download his/her result, exam forms etc from it. Admission and examination fee are collected trough 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.

### **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's and communication between AO and various departments are

made through e-mail of each department/ through college website. Student's data are maintained online. Each student can view his/her academic data throughout the year. Service record of teaching and non- teaching staff is maintained by Higher education department online through e-service-book, updated every year by college administration using their login ID and password. Employee can view his/her profile online any time anywhere and can get benefit accordingly.

#### **\*** 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. The salaries of regular employee's are maintained through IFMIS system by the Government.

## **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 the application form are verified at any Govt. college of M.P.. Finally, on the merit bases as per the allotment the student can seek the admission in the allotted college/course. This process done in many round as required. At the end for vacant seats the CLC round is organised at college on first come first/merit basis. All the information of the students admitted to the college is available on Higher Education department/College website.

#### **\*** Examination

The activities related to examination are controlled by the examination department. This department make examination schedule. The college follows semester system at PG level & at UG(BCA) level, while annual system at UG(B.Sc.) level. Student can fill their examination forms. Admit cards are generated online and student can download from the college website. 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 deposit fee online 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/	Name of the	Amo
		workshop attended for	professional body	unt
		which financial	for which	of
		support provided	membership fee is	supp
			provided	ort
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

	$\mathcal{E}$	<u> </u>			
Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non- teaching staff	Dates (fromto)	No. of participant s (Teaching staff)	No. of particip ants (Non-teaching staff)
2020	Workshop for Laboratory Technicians		04/01/20	25	225
	(Chemistry)				
2020	Application of Advanced Scientific		08-15/06/20	150	
	Instrumentation with entrepreneurship				
1	guidance (Pharma Chem. & PG Tech.)	1		1	ĺ

2019	One week workshop on "Qualitative & Quantitative Analysis (Pharma Chem. & PG Tech.)		10-15/10/19	45	
2019	One week Workshop on "Research Methodology" (Comp. Science)		16-20/12/19	55	
6.3.3 No	o. of teachers attending professional develo	opment programi	nes, viz., Orient	tation Prog	gramme,
	er Course, Short Term Course, Faculty De				
	the professional development	Number of teac	chers who	Date and	
progran	nme	attended		Duration	
E 1	I I C D DCDVN I	00 (T	1	(from – t	
	Induction Programme: RCPV Naronha by Bhopal	02 (Tasnem Ra Sheetal Uike)	ngwala,	20-25/01	/20
	er Course: DAVV, Indore	01 Nidhi Parma	ar	29/08-11	/09/19
		01(Chemistry)			
learning	esign & Development of MOOCs and e g Technologies: Guru Govind Singh astha University	01 (Pramila Sac	dhav)	10-16/05	520
FDP: M Pedagog	Indeern Educational Tools and gical Practice for Online Teaching: ankar Inst. of Tech.	01(Pramila Sad	lhav)	20-25/06	5/20
FDP: M	Innaging online classes and Co-Creating s:2.0:Ramanujan College, Univ. of Delhi	01 (Pramila Sac	18/05-03/06/20		
Instrum	pplication of Advanced Scientific entation with Entrepreneurship guidance: Higher Ed. & PG Tech.	08, Vishnu Gao Tiwari, Pramee Shivle, Alka Di Patidar, Kamla Pramila Sadhav 02(Bio Chemis 01(Microbio), 01(Mathematic	08-15/06	5/20	
	ecent Awareness in Forensic Ballistic blosive Examination: SVVV Indore	04, Ritu Bharti, Ahirwar, Neha Satish Rai	•	03-04/10	0/19
	rm Course: Advanced Agro Tech. For Development: H.Sc. (Botany)	05, Kislaya Par N.K.Jain, Smita Pramila Sadhay Chaturvedi	22/01-14/02/20		
	rm Online Course: Research ology in Social Sciences: HSGour Univ.	01 Laxmi Tantı	16-22/09	16-22/09/19	
	erm Tr.: Health Nutrition: H.Sc. m & Career Guidance Cell)	02, Deepti Kha Sharma	re, Anuja	16/09-12	2/10/19
	rm Course: Big data & Machine g: DAVV Indore	02 Naresh Pate Sharma	l, Chitranjan	14-19/10	0/19
	AM online course: Modern Algebra: i Kamraj Univ.	01 Naresh Pate	1	July to C	Oct.19

SWAYAM onlin Univ. Of Kaikat	ne course: Dif	ferential Calculus:	01 N	Naresh Patel	July to Oct.19	
	ovid-19 crisis awareness: Ayurveda Immunity oosting Plants: Old GDC, Indore		Shiv Cha	Kislaya Pancholi, Kamla vani, Smita Dubey, Priti turvedi, Pramila Sadhav Microbio)	18-24/05/20	
Covid-19 crisis a Plants and Yoga		munity Boost by	04, Shri	Pushpa Makwane, Meenal vastava, Reeta Agrwal, nila Kori,	08-14/06/20	
Smmer Tr. :Harb	oal Drugs: SA	GE Univ.		Kamla Shivani	01-06/06/20	
	m and our cor	ntribution: SNPG	04, Shri	Pushpa Makwane, Meenal vastava, Reeta Agrawal, nila Kori,	28/05-03/06/20	
Cmbridge Assess	ment English	: Cambridge Univ.	Ojh	Suwarna Tanwani, Prerna a, T. Abbasi, K. chandani, Rajni Mishra,	03-06/09/19	
DST Sponsored Technologies: M		<u>=</u>		. Choure	09-10/12/19	
DST Sponsored Sumer School: Geospatial Technologies in water Resource Management: Birla Inst. of Sc. Research, Jaipur			01.5	. Choure	11-12/11/19	
DST Sponsored	DST Sponsored Winter School: Geospatial Technologies: MNIT Bhopal		01.5	. Choure	29-30/01/20	
STeaching Learn Crit.2)		ation (NACC	01N	licro)	19- 20/06/20	
FDP: Tr. on C & Indore)	FDP: Tr. on C & C++: Comp. Sc. (HSC		23 (	Computer Science)	10 - 23/12/19, 15-19/06/20, 10-14/06/20, 15-20/06/20, 17-21/06/20, 19-24/06/20, 20-21/06/20, 22-28/06/20, 27/06- 04/07/20	
Workshop: Acad Naronha Acaden		pment: RCPV		Bijendra Rai, V.R. ure, M.K. Diwedi	16/08/19	
Total	•		85			
6.3.4 Faculty ar		itment (no. for perm	anent		-	
Teaching Non-teaching						
Permanent Fulltime				Permanent	Fulltime	
NA		NA		NA	NA	
625 Walfara and	hamas for					
6.3.5 Welfare scl Teaching	Health serve for teaching etc. Various	staff. The college awareness program	orgar mes v	C in its premises. Health conizes awareness Programm vere organized during the seer the guidelines of sta	es on AIDS, drugs ession.	

reimbursements are given to teachers. Group Insurance Scheme is available for all teachers. Reservation scheme in admission of wards in the college of teachers is **Leaves:** As per the rules laid down by the state government various types of leaves like - casual leave, optional leave, earned leave, medical leave are available for all TWF: 4% Teachers welfare fund is collected and made available by the college as per the necessity of teachers. Academic Facilities: Computer facility with internet is available in library and for all teachers and employees. **Staff Quarters:** The college provides Three residential houses for teaching faculties in the college campus. Health services: The college has PHC in its premises. Health camps organized for teaching staff. The college organize awareness Programmes AIDS, drugs etc. Various awareness programmes are organized during the session. Medical Reimbursements: As per the guidelines of state Govt. medical reimbursements are given to employees. Group Insurance Scheme available to all employees. Reservation scheme in admission of wards of employees those who are working in higher education department is available. Non-teaching Leaves: As per the rules laid down by state government various type of leave facilities like casual leaves, optional leaves, earn leaves, medical leaves are available to all employees. Academic Facilities: Computer facility with internet is available in library and for all employees. Staff Quarters: The college provides Twelve residential quarters available for non teaching staff in the college campus **Health services:** The college has PHC in its premises. Students can seek health facility and counselling free of cost. Health camp, AIDS and other disease awareness programmes, awareness from drugs programmes etc are organized for the students in the college time to time. Various awareness programmes are organized during the session. **Teaching and Learning supports:** Department of higher education provides smart phones to students while the college provides free Wi-Fi facility to the students so that they are able to incorporate the use of technology while learning. Swami Vivekanand Career Guidance cell, Personality development cell in the college provide counselling regarding the career option. Placement cell invites various companies for campus placement. Remedial classes for slow learners, career counselling, spoken English classes, communication skill programmes are organized Students from time to time for students. Under book bank scheme of higher education department reading materials (text books) and stationary is provided free of cost to SC/ST students. College provides the counselling facility to students free of cost for their personal and academic problems. Free ship and Scholarship: The college provides half free ship for poor students/ students who have lost their earning parents. The college assists the students in getting bus and railway travel concession passes. Student of the year award is given from each stream to encourage students who excel in academics as well as extra/ co curricular activities. For differently abled students college makes every possible effort to make the campus disabled friendly for persons with disability and ensures that every required infrastructural facility is provided. The college assists the students to life Insurance policy at nominal premium. Kits, uniforms and

refreshment are provided to NCC, NSS volunteers. Various scholarships: SC, ST, OBC, Gaonkibeti, Pratibha Kiran, Vikrmaditya, Inspired and Minority scholarships etc are available for students.

**Hostel facility:** College has a 100 setter boy's hostel in the campus.

## **6.4 Financial Management and Resource Mobilization**

6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)

College conducts internal financial audit. For this various committees are made for smooth functioning of financial activities. Moreover for the internal financial audit the college hire the service of CA, they do the complete financial audit every year. This is a state government college so that the external audit is done by the state government auditors and also by AG MP.

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non-government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose
Nil	Nil	Nil

#### 6.4.2 Total corpus fund generated :

#### 1121816

#### **6.5 Internal Quality Assurance System**

6.5.1 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type		External	Inte	ernal
	Yes/No Agency		Yes/No	Authority
Academic	Yes	Dept. of Higher Education (World Bank Project)	Yes	College
Administrative	Yes		Yes	

### 6.5.2 Activities and support from the Parent – Teacher Association (at least three)

The College does not have a formal Parent Teacher Association. However, the college ensures a healthy interaction with the parents. Parents-Teachers Meetings (PTM) are organized by various departments at departmental level in the beginning of each semester. In these meetings in addition to the resolution of individual problems of the students, issues like improvement in the institution, educational system, students benefit policies etc. are discussed. Parents are also apprised of their ward's progress in the institution. Parents give suggestions and feedbacks in these meetings. The college takes due action on the valuable suggestions provided by the parents.

## 6.5.3 Development programmes for support staff (at least three)

The college encourages and support the staff to attend workshops and training programs conducted by competent authority outside the College like workshop on lab skill training for the laboratory staff of Chemical and Life Sciences, Accounting and office working training to office staff etc.

6.5.4 Post Accreditation initiative(s) (mention at least three)

**Water Harvesting System:** For ground water recharging water harvesting system is installed on the roof of all the buildings of the college.

**Solar Power Panels:** For the production of green energy and energy conservation solar power plant setup on the rooftop of the College buildings is being proposed.

**MOU's and Collaboration:** Try to sign MOU with various institutes of national and international repute.

#### 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

Year	umber of Quality Initiatives undertaken of Name of quality initiative by IQAC	Date of conducting	Duration	Numb
i cai	Name of quanty initiative by IQAC	activity	(fromto	er of partic
2019	Hardware/ Networking workshop:	Dept. of Comp. Sc. & Astha Mishra, Amit Pandit	15-16/11/19	pants 250
2019	Computer Hardware, Equipment Repairing & Fabrication Tanning Workshop	Dept. of Electronics	18/11/19	36
2020	Certificate Course on Basic Programming with Python:	Dept. of Electronics	24/01/2020	36
2020	Certificate course on Embedded System Design using Arduino:	Dept. of Electronics	24/01/2020	20
2019	Personality Development & Communication Skill for M.Sc. Student:	Dept. of Chemistry & Carrier Guidance Cell	23/09-13/10/19	88
2019	Psychological counselling center is started for UG and PG Students:	Dept. of Chemistry & Carrier Guidance Cell	23/09-13/10/19	80
2020	Internship Programme on "Instrumentation Techniques":.	Dept. of Chemistry & Pharma. Chem	06-18/01/20	48
2020	Short term Tr. On "Advanced Agro Techniques for Entrepreneurship Development"	Dept. of Botany	22/01-14/02/20	25
2019	Hands on Training Programme on Mushroom Cultivation for self employment	Dept. of Horticulture & Seed Technology	10 -11/10/19	30
2020	National Workshop on Intellectual Property Rights	Dept. of Physics & Electronics	12-13/03/20	55
2019	National Symposium on Mathematics (Ramanujan Day)	Dept. of Mathematics	24/12/19	65
2019	International Conference on "Recent Advances in Life Science for Betterment of Human Health" (ICRALBEH-19)	Dept. of Zoology	14-15/12/19	150
2020	Bio Diversity	Dept. of Zoology & Fisheries	02/03/20	25
2019	One week workshop on "Qualitative & Quantitative Analysis	Dept. of Pharma Chem. & PG Tech. Research Inst. Indore	10-15/10/19	45
2020	Application of Advanced Scientific Instrumentation with entrepreneurship guidance	Dept. of Pharma Chem. & PG Tech. Research Inst. Indore	08-15/06/20	150
2019	One week Workshop on "Research Methodology"	Dept. of Comp. Science	16-20/12/19	55
2019	Bhuvisanwad (Academic Interaction Programme)	Dept. of Geology and Geological Survey of India	15-16/11/19	35

2019	Short term employment oriented tr.	Dept. of Biochem. &	16/09-12/10/19	40	
	On "Health and Nutrition"	Career Guidance Cell			
2020	National Webinar on "Teaching-	IQAC HSC, Indore	19-20/06/20	160	
	Learning and Evaluation"				
2020	Online Certificate course on	Dept. of Bio. Tech. &	15-28/10/20	250	
	"Molecular & Computational	Bio. Info.			
Biology"					
Various Webinars organized during the session (Covid-19 Pandemic Time)					

#### 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 ( <b>from-to</b> )	Partici	pants
		Female	Male
Vigilance Awareness Week	29/10-03/11/19	20	15
( Red Cross Soc. & Biochem.)			
Women Empowerment Session JUDO/Karate	07/09/19	55	10
Organized (NSS)		33	10
Women's day, Judo-Karate etc		50	05
(Red Cross & NSS)			
Judo Karate training camp for girls in self		150	05
defence (Sports)			

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 (Divyangian) friendliness

		No. of
Items Facilities	Yes/No	Beneficiaries
Physical facilities	Yes	02
Provision for lift	No	Nil
Ramp/ Rails	Yes	01
Braille Software/facilities	No	Nil
Rest Rooms	Yes	Nil
Scribes for examination	Yes	Nil
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	Number	Date and	Name of the initiative	Issues	Number of
	initiatives	of	duration of		addressed	participati
	to address	initiative	the			ng
	locational	s taken	initiative			students
	advantage	to				and staff
	s and	engage				
	disadvanta	with and				
	ges	contribut				
		e to local				
		communi				
		ty				

2019-20	 05	14/11/2019	Astha old age Home	Social	35+5
			visit (Pharma. Chem.)	activities.	
			Visit to Musakhedi	Awareness	30+5
		08/08/19	Slum area (Red Cross	About	
			Soc. & Biochem.)	Hygiene,	
		14/01/20	Visit to Jyoti Niwas	Nutrition &	20+2
			old age home	Health.	
			(Botany)		
		12/10/19	Visit to village		20+2
			"Jamlia" (Zoology)		
		02/11/19	Visit to Jeevan Shala		15+2
			Visharjan Ashram		
			(Slum area):(Biotech		
			& Bio Info.)		
2019-20	 04	01/08/19	Plantation (Biotech &	Plantation	50+5
			Bio Info.)	programmes	
		11/08/19	Plantation: Hariyali	for green	65+10
			Mhotsav (NSS)	and eco-	
		30/08/19	Plantation Activities:	friendly	25+10
			Botanical Garden	campus &	
			(Botany)	awareness	
		22/09/19	Tagging of Plant:	about	15+5
			College campus	environmen	
			(Botany)	t	
2019-20	 02	30/12/19	Blood Donation Camp	To create	20+5
			(NSS, Red Cross Soc.	awareness	
			& Biochem.)	in the	
		01/12/19	Blood donation camp	society	40+3
		01/12/19	MY Hospital	about blood	
			(NSS)	donation	
2019-20	 01	26/01/20	Polythene Free	Clean &	25+5
			Campus Prog.(Red	Eco-	
			Cross)	friendly	
			/	campus	
2019-20	 02	07/02/20	Lecture on scientific	Awareness	25+5
20		3 3 <b>2</b> , <b>2</b> 3	basis of cancer	about	
			awareness and	Cancer	
			training on CPR (Red		
			Cross & Biochem.)		
		04/02/20	Poster competition on		15+5
			cancer Awareness		
			(Red Cross Soc. &		
			Biochem)		
2019-20	 02	07/03/20	Health Check-up	Health	50+5
_01/ _0	-	0.702720	camp on women day	Issues: Care	2010
			(Red Cross & Women	&	
			Empowerment cell)	Awareness	
		17/11/19	Eye Check-up camp	about	55+5
		17/11/17	(NSS & Red Ribbon	Health	33 T3

2019-20		05	17/01/20	Poster competition on AIDS Awareness (Red	Awareness programmes	15+5
			20/11/19	Cross & Biochem.) Street play on AIDS	about AIDS	30+5
				awareness (NSS & Red Ribbon Club)		
			29/11/19	AIDS awareness rally (NSS & Red Ribbon Club)		25+5
			28-30/12/19	Poster Making competition: "AIDS Awareness" (NSS & Red Ribbon Club)		50+5
				National AIDS Control Program (National AIDS Control Organization & Bot.)		50+1
2019-20		01	29/10- 03/11/19	Vigilance Awareness Week (Red Cross & Biochem.)	Vigilance Awareness	30+5
2019-20		01	24/08/19	Rally against "Food Adulteration" (NSS)	Awareness about Adulteration	65+25
2019-20		02	26/02/20	Lecture on Road Safety (NSS)	Traffic awareness	55+4
			15/07/19	Traffic Control Programme (1BNNCC)	programmes	25+2
2019 -20	01		Continuous process	Scenic Beauty	Maintenance of natural geography	Faculties/ students
2019 -20	01		Continuous process	Pollution free environment	Maintenance Green area and once a week the staff member and student use bicycle to come the college	Faculties/ students
2019 -20	01		Continuous process	Facilitate to students for city bus concessional pass	College situated in the city and is properly connected with BRTS roads	students/fa culties /employee s
2019 -20	01		Continuous process	Facilities of hostels	Various private hostels and governments post metric hostels are at the walking	students

					11. 4		
					distance from the		
					College		
2019 -20	01		Continuous	Academic	University	students	
2019 -20	01			environment	•	/faculties	
			process	environment	campus is at	/faculties	
					the walking		
					distance		
					from the		
					college,		
					students can		
					avail the		
					facility of		
					university		
					central		
2010 20	0.1		<u> </u>	Г	library	. 1 .	
2019 -20	01		Continuous	Environment of	Many	students	
			process	competitive exams	private		
					coaching inst. for		
					competitive examination		
					s like: civil		
					services,		
					banking services,		
					CET etc.		
					Are at the		
					walking		
					distance		
					from the		
					college		
2019 -20	01		Continuous	PHE available in	Stake	students	
2019 -20	U1				holders seek	/faculties	
			process	campus	consultancy		
					about their	/employee	
					health	S	
					regularly		
7 1 5 Hum	an Values	s and Profession	al Ethics	<u> </u>	Togularry		
		and Frotession andbooks) for va		ders			
Title	ì	Date of Publicati		Follow up (maximur	n 100 words each	1)	
Code of co		8/07/2018		ege functions under the			
				M.P The code of cond			
				ted by the state govern			
follows all the rules and regulations given by UGC. The			_				
appointment of teachers and other staff is based on the rul							
laid down by UGC. The college adopts all the measure							
				d in the Gazette of Indi	-		
			-	Education. Besides this			
			_	cies: Green Policy, I		-	
			-	empowerment policy, V	•	•	

Activity	Duration (fromto)	Number of	
	(11011110)	participa nts	
Old Age home/Slum area Visit : Social Activitie	es		
Astha old age Home visit (Pharma. Chem.)	14/11/2019	40	
Visit to Musakhedi Slum area (Red Cross Soc. & Biochem.)	08/08/19	35	
Visit to Jyoti Niwas old age home (Botany)	14/01/20	22	
Visit to village "Jamlia" (Zoology)	12/10/19	22	
Visit to Jeevan Shala Visharjan Ashram (Slum area):(Biotech & Bio Info.)	02/11/19	17	
Plantation: Eco Friendly Environment			
Plantation (Biotech & Bio Info.)	01/08/19	55	
Plantation: Hariyali Mhotsav (NSS)	11/08/19	75	
Plantation Activities: Botanical Garden (Botany)	30/08/19	35	
Biochemistry: Plantation	31/01/19	30	
Tagging of Plant: College campus (Botany)	22/09/19	20	
Blood Donation/Health awareness Programmes	}		
Blood Donation Camp (NSS, Red Cross Soc. & Biochem.)	30/12/19	25	
Blood donation camp MY Hospital (NSS)	01/12/19	43	
Lecture on scientific basis of cancer awareness and training on CPR (Red Cross & Biochem.)	07/02/20	30	
Poster competition on cancer Awareness (Red Cross Soc. & Biochem)	04/02/20	20	
Health Check-up camp on women day (Red Cross & Women 07/03/20 Empowerment cell)			
Eye Check-up camp (NSS & Red Ribbon Club)	17/11/19	60	
Poster competition on AIDS Awareness (Red Cross & Biochem.)	17/01/20	20	
Street play on AIDS awareness (NSS & Red Ribbon Club)	20/11/19	35	
AIDS awareness rally (NSS & Red Ribbon Club)	29/11/19	30	
Poster Making competition: "AIDS Awareness" (NSS & Red Ribbon Club)	28-30/12/19	55	
National AIDS Control Program (National AIDS Control Organization & Bot.)		51	
Other Activities	- 1		
Vigilance Awareness Week (Red Cross & Biochem.)	29/10-03/11/19	35	
Rally against "Food Adulteration" (NSS)	24/08/19	90	
Lecture on Road Safety (NSS)	26/02/20	59	
Traffic Control Programme (1BNNCC)	15/07/19	27	
Microbiology: Khan river water analysis	Sept. Nov. 19	45	
Horticulture & Seed Tech: EkVidhyarthi Ek Phodha Ropan Abhiyan,	01-20/08/19	64	
Kisan Divas,	23/12/19	45	
Visit To Tirupati Nursary Barwah (M.P.),	12/12/19	55	
Chemistry: Visit at Blind School, Indore	One day	25	
7.1.7 Initiatives taken by the institution to make the campus eco-friendly (a	·		
To reduce pollution and create eco-friendly campus College is working in	various ways.		

installed with CFL bulbs to minimize the expense of electricity. A solar panel plant is also proposed.

**Water harvesting:** Water recharging pits have been constructed at many places in the campus. The college has installed rainwater harvesting water recharge techniques on the roofs of college buildings.

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

**Plantation:** To make the campus green and eco friendly plantation is done throughout the campus. NSS volunteers and gardeners take care of the plants regularly. With this objective, the college has several well maintained gardens with plants of medicinal values.

**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.

**Reuse of papers:** Reuse of one sided printed paper and remaining practical file pages is the regular practice of the College.

**Microbiological Analysis:** Microbiological analysis of drinking water from various sources on campus is done through department of Microbiology.

**Others:** We aware to students and staff to reduce the use of plastic material. Online practices are promoted to reduce paper work to save greenery. Use separate dustbins for degradable and non-degradable matters. ECO club of College organized various programmes for environment awareness and protection.

#### **7.2 Best Practices**

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

(Annexure VII)

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

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

#### Aim and Objectives:

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

- **B. Objectives:** The main objective behind this project is to provide facility of safe and healthy drinking water. This study will help in following ways:
  - Identifying existing problems
  - Ensuring whether water is suitable for the intended use, especially if used for drinking purpose
  - Tracking changes over time
  - Determining the effectiveness of a treatment system

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

The Context: The college has drafted its research policy to ensure a safe and healthy environment for everyone who visits the campus for various reasons. One of the best practices initiated for the betterment of facilities provided by the college is to check the water quality on campus to provide safe drinking water on campus for all. The Department of Microbiology has undertaken the project for water analysis. Dr Sanjay Vyas, Head and faculty members Dr. DeeptiKhare, 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. Out of 15 Samples 05 samples and 03 samples shown contamination by Coliforms in the sessions 2017-18 & 2018-19 respectively. In session 2019-20, out of 15 samples 02 samples shown contamination by Coliforms:

1	S.N.	YEAR	TOTAL NO. OF SAMPLES	CONTAMINATED SAMPLE NO.	TOTAL CONTAMINATED SAMPLES
	1	2016-2017	15	03,04,05,06,07,08,10	07
	2	2017-2018	15	03,04,05,07,10	05
	3	2018-2019	15	03,04.05	03
	4	2019-2020	15	03,04	02

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

Title of the practice : Working of the Examination Department

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

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

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

- 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. Microscrutiny of A/B 's by subject expert
- 10. Computerized Tabulation
- 11. In house printing of non confidential material
- 12. Hologram sticking on Marksheet
- 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.
- 20. Exam form can be downloaded from the college website
- 21. 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.
- 22. From 2017 the profile of all departments are 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.

#### From 2019:

- ➤ Passport size photo of the student on the mark sheet.
- > Part of Aadhar number printed on mark sheet.
- QR code printed on mark sheet.
- Conduction of on line examination due to Covid-19 pandemic.

#### 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)

## "Research Studies on Unknown Foul Odour of Indore City-2019" Aim and Objectives:

Aim: To investigate the foul odour reported in Indore city and to find its probable reasons. Objectives:

- i. To perform survey of affected localities to know the details of foul odour.
- ii. To get Questionnaires filled from local residents to get their views on foul odour.
- iii. To visit the affected regions of the city.
- iv. To perform Sampling of soil from affected regions and its analysis.
- v. To perform Sampling of water from Khan river from affected region and its analysis.
- vi. To perform Microbiological analysis of air of affected region.
- vii. To observe of wind flow directions during hours of foul odour.
- viii. To interpret the data for probable reasons of foul odour.

The Context: Indore city has been awarded with the title of "the cleanest city of India" for the last three successive years. City is well known for its cleanness and waste management. The Indore Municipal Corporation (IMC) has worked hard for the maintenance of cleanness and their efforts have led to the way for the cleanest city in the country for three consequent years. During the late months of 2019 the residents of Indore reported a foul smell in some areas of the city specially in evening hours. They claimed that the smell was very intense and unbearable.

Department of Microbiology, Govt. Holkar Science college, Indore had taken initiative to deal with

this problem as their social responsibility. The Head of the department Dr. Sanjay Vyas along with four professors of the department Dr. Shweta Hardia, Dr.Anita Mukati, Dr. Deepti Khare & Asst. Prof. Anuja Sharma and about 16 students of the department have worked and produced the report.

The Practice: Studies had been performed at different levels. At first local survey was done around 20 different sites from where foul smell was reported. This survey was done with the help of questionnaire and the result of the survey showed that local residents of certain areas are continuously facing this problem since last 1.5 months. As per residents, the smell was similar to decomposition or fermentation. The smell usually came in the evening hours around 6-10 pm. Residents also complained health problems like headache, vomiting and eye disorders due to the smell. Residents residing in Devguradia and near by places suspected that the smell might be coming from trenching ground.

Team had done studies on airflow, which showed change in air direction responsible for foul smell in different areas. Studies were done with the help of "wind finder application" and had shown that when the wind direction was toward south-east, the eastern regions of the city were affected while when the direction was towards south-west, the western regions where affected. It was observed that no foul smell was felt when the wind direction was south-north. This indicate that cause of the foul smell may be in southern parts of the city.

In the second level of studies, sampling was done from 06 different of suspected locations. Water and soil samples were collected from Kahn river which was suspected as a possible waste disposing area resulting in foul smell.

Evidence of Success: Different tests were performed with water such as temperature, pH, Alkalinity, BOD, TDS, Chloride, Hydrogen Sulphide and ammonia content. It was analysed that all the samples had not shown any unusual results regarding above parameters. The samples taken from bore well of trenching ground showed very high content of ammonia and fluoride. Microbial analysis suggested normal contamination of sewage water like faecal coliforms and faecal Streptococci. Soil was analysed for physical parameters and microbial contamination and results does not showed any suspects regarding cause of foul smell.

Microbial examination of air flora was done which showed presence of normal contaminants like Bacillus, Streptococci, Aspergillus, Penicillium, Alternaria, Rhizopus, Candida, Micrococcus etc. these studies showed that none of the microbial species was related with the possible reasons for foul smell.

The report helps in concluding that soil and water were not the possible cause for foul odour in affected areas.

**Problems Encountered and Resources Required:** The team had to travel to different locations to collect survey data from the local population. The sampling kits for soil and water analysis were required to collect samples from most affected areas.

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

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

- More classrooms and laboratories are required.
- More classrooms should be converted into smart classrooms.
- To introduce CBCS system at UG level. As we have adopted CBCS system at PG level.
- To modernize labs with recent apparatus and establish separate labs for UG and PG for research in each department.
- To construct a fish farm in the Fisheries Department.
- To establish a Bio. Tech. Park in college campus.
- To establish west management and manure unit.
- To establish solar panel plant for green energy.
- To establish separate computer labs and seminar halls in each department.
- To establish server client architecture in computer lab and an internet gallery in the college.
- New skill oriented and academic programmes should be started that would generate employment for the students.
- To organize Remedial classes and classes for competitive examinations.
- To established collaborations and MOU's from institutes of national and international repute and industries.
- To start industrial training for the students. To start online courses and to provide E-content to students.
- A well equipped modern research wing should be developed in each department for the research scholars and faculty members actively involved in research pursuits.
- To construct an auditorium and expand the cultural centre of the college to promote rich cultural heritage of our country.
- *To expand the library with cubical and reading rooms.*
- To construct a separate unit for central valuation.
- New canteen and gym should be established.
- To construct separate well equipped departments with separate cubicles along with computer and internet facility for the faculties. Separate class rooms for PG classes. Bigger labs and independent departmental libraries.

(Dr. T. Abbasi)	(Dr. Vivek Raich)	(Dr. R.C. Dixit)
(Member IQAC)	(Member IQAC)	(Member IQAC & AO)
(Dr. R.K.Sharma)		(Dr. Suresh T. Silawat))
(Co-ordinator IQAC)		(Principal & Chairperson IQAC)
	***	