SELF STUDY REPORT

FOR

1ˢᵗ CYCLE OF ACCREDITATION

IPS ACADEMY, INSTITUTE OF ENGINEERING AND SCIENCE

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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Indore Professional Studies Academy (IPS Academy) is one of the Central India's largest educational hub-premises, playing a major role to develop Indore as Central India's most preferred educational centre. It was established in 1994 by Indore Education Society imparting quality education with the sole motto of *"Knowledge, Skills and Values"*. The society was founded by Ar. Achal K Chowdhary -An alumina of IIT Kharagpur & eminent architect. It has 16 colleges on green lush campus of 60 acres offering courses in various disciplines such as:- Commerce, Law, Fine Arts, Science, Management, Architecture, Pharmacy, etc.

IPS Academy, Institute of Engineering and Science (IES) was established in 1999 under the ageis of IPS Academy. It is one of the most preferred self financing institutes in M.P affiliated to Rajiv Gandhi Prodyogiki Vishvawidyalaya (RGPV) Bhopal for studying professional, technical courses leading to B.Tech/M.E./M.Tech. Degrees.

The institute is situated on AB Road, NH No. 3 at Rajendra Nagar. Indore is a commercial capital of Madhya Pradesh. The Institute is located in a sprawling campus of about 7.5 acres, amidst sylvan surroundings with aesthetically built infrastructure. The institute is located at a distance of 10 kms and 7 kms from railway station and airport respectively. The UG programme Fire Technology & Safety Engineering was the unique program in the state of MP offered by Institute in the year 1999. The institute has grown in its size and stature over the years, from an initial intake of 180 to the current intake of 1344 students. It currently (2020-2021) offers 10 UG and 8 PG programs. The institute was granted Autonomous status by UGC, New Delhi under its UGC regulation 2018 from the current academic session 2020-2021, vide its letter, dated July 15th 2020. Subsequently the notification to this effect was issued by the affiliating university, RGPV Bhopal, vide its letter, dated Aug 30th 2020.

Vision

Vision of the Institute

To be the fountainhead of novel ideas & innovations in science & technology & persist to be a foundation of pride for all Indians.

Mission

Mission of the Institute

- To provide value based education to students in field of Engineering, Technology and Science, to develop their professional knowledge & skills.

- To inculcate dedication, hard work, sincerity, integrity and ethics in building up overall professional personality of our students and faculty.

- To inculcate a spirit of entrepreneurship and innovation in passing out students.
- To instill sensitivity amongst the youth towards the community and environment.
- To instigate sponsored research and provide consultancy services in technical, educational and industrial areas.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Strength:

1. Green lush campus with good ambiance.
2. Adequate infrastructure to conduct UG/PG programs. WIFI Campus, Optical fiber network. Some of the state of art laboratories is Cloud Computing Lab, VLSI Lab, Instrumentation Lab, Heavy Structures Lab, Micro Fluidics Lab, etc.
3. Installed 'Lift' in each block for differently abled students in particular and staff and faculty in general.
4. Well equipped Central library with adequate number of books and digital library facilities providing access to e-books/e-journals.
5. E-Governance is fully operational through Leave management system (LMS) and Content management system (CMS).
6. Collective leadership, responsibility and team-work with feedback oriented performance appraisal.
7. Unstinted support from the management for the overall development of the institute.
8. Pro-active Career guidance and Placement cell.
9. WIFI enabled campus with smart classroom.
10. Technical, administrative and support staffs are professionally qualified and computer savvy.
11. Good network with Institute of National importance and Industries.
12. Incubation centre facility allotted by MSME, GoI, India, with a funding of Rs. 2.5 Crores.
13. Well mannered, disciplined and scholarly students.
14. Notable participation and performance of students in Academic/Co-curricular/Extra-curricular activities.
15. Sincere, committed, experienced and qualified faculty in adequate number. Student Faculty Ratio (SFR) as per AICTE Norms.
16. Good faculty retention.
17. No. of faculties with Ph.Ds = 59 in latest completed academic year
18. Good participation in FDPs/STTPs/Workshops etc by faculty.
19. Good number of FDPs under ATAL/AQIS organized by various departments.
20. Good number of research publications in UGC referred /SCI Journals.
21. Qualified technical staff in adequate number.

Institutional Weakness

Weakness:

1. Less No. of faculty at senior positions.
2. Less number of faculty with PhDs in engineering disciplines.

3. Lesser number of Patents.
4. Few sponsored R&D projects.
5. Limited consultancy work.
6. Precision manufacturing facility is yet to be developed to enhance R & D exposure.
7. More Collaborative research with Institute of repute is needed .
8. Institute not recognized as a research centre for award of PhD degree inspite of qualified faculty & adequate infrastructure for conduct of research.

Institutional Opportunity

Opportunities:

1. To sign more number of MOUs with industries/academic institutes of repute.
2. To create more collaborations with Industries/Premier educational institutes like IITs, NITs, etc.
3. To introduce new value added courses based on skill development.
4. Successfully completed Campus Active - pilot project which will be shared with other higher educational institutions.
5. Taking part in the process of revival of the industries.

Institutional Challenge

Challenges:

1. Rapid changes in technology in contrast to relatively slow changes in technical education.
2. Attractive terms and incentives for employment offered by industries to the brilliant students, reducing the availability of students for higher studies.
3. Continuous need to revise the course content and high redundancy rate of the available technology.
4. Global recession has an impact on higher technical education.
5. Foreign Brand has a face value in Indian's mind and as such the entry of foreign university may pose a threat.
6. Shifting of technical education from theory based to application based to meet industrial demands.
7. Intake quality of students in few disciplines of engineering.
8. Decline in the interest towards core branches of engineering.
9. Quality of Graduates & Post graduates.
10. System heavily oriented towards local text books driven examination.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The institute follows the curriculum prescribed by its affiliating university. Academic calendar provided by the University is taken as the reference, for preparing schedule related to curriculum delivery plan and various tools for assessment of students such as Mid Semester Tests, Home Assignments etc, co-curricular & extra-curricular activities. The institute prepares the academic calendar in line with that of RGPV.

As per the prescribed syllabus of the University, HoD allocates the teaching load to faculty members. Individual faculty uploads unit wise course plan in Campus Management System (CMS) - ERP for ensuring the effective curriculum delivery through a well planned and documented process before commencement of semester.

The curriculum incorporates Choice Based Credit System (CBCS) /elective courses offered from 5th semester onwards. The curriculum also includes courses related to professional ethics, environmental sciences. The students also participate in Nukkad Natak to illustrate importance of Human Values. There is a Continuous Internal Evaluation (CIE) for students through Midterm tests, Technical quiz, Home assignments, etc. The student's performance in practical is evaluated at the end of each experiment through lab records, viva voce, and his/her performance during conduct of experiment.

The effective implementation of curriculum is ensured by supplementing classroom teaching with expert lectures, seminars, projects, in-house and industry supported projects, industry visits, industrial internships, hands-on-training, tutorials, e-learning and NPTEL lectures.

The Outcome Based Education (OBE) is practiced during teaching learning to students .The Institution believes that integrating cross cutting issues with the curriculum would create positive impact on the students, both in terms of his/her education and societal commitment. Accordingly, courses in rural outreach and role play are offered by the institution. To supplement this, the institute conducts several awareness sessions and related activities such as debate, elocution, extempore, etc.

The institute also takes 360 degree feedback as per AICTE format from its stakeholders regularly, as well as student feedback on the curriculum, teaching-learning process and facilities at the institute and departmental level. The corrective action on feedback, if required, is initiated by the institute/department to improve the teaching - learning process further.

Teaching-learning and Evaluation

The institute is one of the most preferred institutes for UG programs. Average enrollment ratio for the last 5 years is 72.89. The admissions are effected through Directorate of Technical Education (DTE) MP Portal. The MP state government reservation policy is followed during admissions.

The institute identifies advance and slow learners based on their performance in previous years and current years through Midterm tests. The performance of slow learners is improved by giving them extra coaching and advanced learners are encouraged for participation in various competitive examinations such as GATE and co-curricular activities namely project competitions, participation in conferences, etc.

The Institute continuously evolves innovative methods of teaching, learning and evaluation procedure. Some Innovative teaching learning methods include: NPTEL/Advanced courses encouraging faculty/students to

register for MOOC's online courses & acquire the certificates, Incubation center and various academic events.

. In addition students are required to deliver seminars on the current trends in their discipline which gives them confidence. Their fundamentals in the subjects are strengthened by asking them to solve numerical problems in tutorial classes. The teachers in the classroom use ICT enabled tools for effective teaching learning. During COVID-19, the teachers completed the courses through online mode of teaching.

Before the commencement of the classes every year, Institute hosts Induction program as per AICTE guidelines for the freshers.

Currently, there are 210 faculty members with 59 faculty members having PhDs. The faculty is qualified, experienced, sincere and committed. Mentoring system exists in the Institute and is well managed. One faculty is allocated for every 15 students as Mentor for monitoring their attendance, punctuality, discipline; academic performance and the overall holistic development of the mentee The Mentors regularly conduct meetings with the mentees regarding their progress.

During teaching learning process, the students are exposed to Outcome Based Education through COs/POs/PSOs and its mapping. Attainment of COs/POs/PSOs through direct and indirect methods is done and recorded in the course files by the faculty members.

Research, Innovations and Extension

The Institute has been recognized as Host institute (HI) to setup/establish Businees Incubator for implementation of the scheme namely "Support for Entrepreneurial and Managerial Development of MSMEs through Incubator" by Ministry of Micro, Small & Medium Enterprises, Government of India. The centre mainly aims at fostering innovative research and entrepreneurial. It is also providing a suitable platform for enthusiastic entrepreneurs. The institute had 11 projects in last five years funded by various government agencies, receiving on an average grant of Rs. 8.27 lacs per year for research projects. In addition, the management of the institute has sanctioned an amount of Rs.16 Lacs for the R & D projects.

The institute established Innovation and Entrepreneurship Development Centre (IEDC) in year 2012 with the support of National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of science & Technology (DST), Government of India, New Delhi. The IEDC Cell of institute conducted 06 programs every year on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship. 10 projects were selected by IEDC, for which Rs. One lakh per project was sanctioned.

The faculty of the institute has several publications in Journals notified as UGC referred journals and National/International conferences. 10 books have been published. Institute had organized international conference "Recent Advances in Interdisciplinary Trends in Engineering & Applications" in Feb. 2019. Around 173 papers were selected and quality papers were published in E-SSRN. The faculty of the institute to its credit as of now has 5 patents.

Under the banner of rural outreach, the students of the 1st year had visited a nearby village – Magarkheda and identified the problem generating issues related to hygiene and water and also submitted a report to Unnat Bharat Abhiyan. Students have also visited to villages viz. Rangwasa and Bicholiya Hapsi. The students have also participated in Swachh Bharat Abhiyan, Voter's awareness rally, Blood donation camps and Traffic awareness and assisted in controlling traffic at crowded signals.

Infrastructure and Learning Resources

The institute has developed high-tech campus with modern facilities/learning resources. The Institute provides resources and adequate infrastructure for successful conduct of UG/PG programs.

The institute has very strong IT infrastructure. The Institute is currently subscribed with the service provider "Bharti -Airtel" for the internet services. For Internet access and computing purposes, the institute has massive network of 2216 computers with 1Gbps band width. Centralized firewall Cyber-roam is used to monitor the usage of Internet by individuals. All computers are connected by LAN and Internet. All classrooms and seminar halls are provided enabled with ICT- facilities. The institute keeps on updating its IT facilities regularly as per changes in its technology.

Library has more than 37820 books including reference books. The institute library is automated by Library Management Software: Soul (Version – 2.0). The institution has subscription to e-resources like e-journals, e-Shodh-Sindhu, Shodhganga Membership and e-books. Institute had average expenditure of Rs.23.43 Lacs on purchase of books/e-books and subscription to journals/e- journals during last 5 year.

Institute has utilized adequate funds for maintenance and creation of newer facilities through establishment of Classrooms, CCTVs, Language Laboratory, Rainwater Harvesting Unit, Ro-water purifiers Solar Panels, Solid Waste Management, Sludge Treatment Plant and Purchase of New Equipments, Building Maintenance etc.

The institute adopts well established systems and procedures for maintaining the physical, academic and its support facilities. There are institute level committees, like Estate maintenance Committee, Sports Committee and Purchase Committee that look after the various aspects of the utilization and maintenance of the physical, academic and support facilities.

Student Support and Progression

All reserved category students (SC, ST, OBC, EWS) are recipients of scholarships from state /central government agencies. The institute has taken initiatives for capacity building and skill enhancement by organizing events on Software trainings on Auto CAD, Primavera, Staad Pro, COMSOL etc. and Training Programs on JAVA, Angular 8+ Node JS, PLC Scada, etc., Life Skills (like Yoga and Meditation Session), on regular basis for students.

Programs are organized regularly for enhancing the Soft Skills and Communication Skills of the students. Regular classes are organized in order to guide the students for Competitive Exams like GATE, etc. Institute has received an amount of Rs. 573000/- under AICTE scheme - PRERNA for providing guidance of GATE to SC/ST students. The Institute has Career Guidance and Training & Placement cell which caters for training/placement to the students. In addition regular classes are conducted by the In-house Training Cell members for Aptitude and Technical knowledge relevant to the Placement.

The Institute has hired an external agency i.e. COCUBE for providing assessment related to pre-placement. Apart from this, Expert Lectures are also organized having Experts from the industries.

Average number of students placed through placement in last 5 years is around 50% with an average package of Rs. 3 lacs and maximum package of 12.76 lacs. Average number of students selected for higher studies is

around 3% in last five years.

The institute has various student committees in which students display their leadership skills through participation in academic, co-curricular and extra-curricular activities. They take initiative to coordinate various academic and non academic activities. The committee members encourage other students to participate and show their talent in various events. Committees like Discipline and Anti-Ragging, Women's Grievance Cells are formed for timely redressal of student Grievances.

Governance, Leadership and Management

The organization structure of the institute comprises of Board of Governors (BoG), the Principal, Head of the Departments (HoDs), administrative officers, Internal Quality Assurance Cell (IQAC), Advisory Boards, Departmental Development Committee (DDC) and Class Co-Ordinators, etc. They play significant role in the evolutionary reforms towards positioning the Institute in the preferred list of all stake holders. The development supervised by the management comprises extension of infrastructure, providing additional facilities, Introduction of new programs, faculty recruitment, student admissions, etc. The employees of the institute are provided with medical facilities including maternity leaves, loan facility, concession in fees to the wards of the employees and Provident Fund, etc.

The Principal of Institute is assisted by Deans, HoDs and coordinators of various cells/committees in decision making process of the Institute. Faculty and staff are assigned with the roles and responsibility to work in a harmonious environment with complete transparency. Internal Quality Assurance Cell (IQAC) has a well-developed process to ensure quality benchmarks of academic and administrative activities.

It is because of the initiative and guidance of IQAC that all eligible UG programs of the institute got accredited by NBA, New Delhi and paved us the way for Autonomous status and encouraged us to apply for NAAC Accreditation

This process provides the institutional practices for decentralization and participative management. The Principal of the college is the head of the institution providing the required leadership to the institution and its system. The principal ensures that all provisions of the university bye-laws, statutes & the regulations are observed meticulously. She also actively monitors admission of students, recruitment of faculty, student feedback, internal and external assessments, institute's finances, and co-curricular and extra-curricular activities through appropriate Committees.

Institutional Values and Best Practices

The Institute addresses gender sensitive issues through various means. Equal opportunity without gender bias is visible. Male to Female ratio of the employees is around 2:1 in the institute. The social and community engagement activities are carried out through Institute Corporate Social Responsibility Cell.

CCTV surveillance system in different areas is operational in the institute at strategic locations. Safety sign boards like escape route, assembly point, way to assembly point, way to staircase, emergency control center, exits, first aid etc. are installed in visible and easily assessable position for the students, faculty members and visitors inside the institute.

The Dustbins are also installed at strategic places in the campus to collect segregated waste.

The institute has plastic recycling unit. It agglomerates plastic waste into useful product. The institute has installed incineration unit for pyrolysis of sanitary waste.

Institute has maintained its campus free of plastics. Collection bins are kept at various locations to collect plastic material. Biodegradable waste is composted in institute campus using Organic Waste Composter . The institute has taken the initiative to manage the waste generated in the campus, thus playing an important role as part of the Swachcha Bharat Abhiyan.

The institute has been recognized by AICTE, New Delhi and has been certified for the "**One Student One Tree Scheme" as an initiative for Clean and Green campus on 3rd Dec 2019.**

Quality audits on environment and energy is regularly undertaken by the Institution.

The Institute takes pride in the fact that apart from preparing a sound academic foundation of the student community to develop them as better citizens of the country.

As a part of best practices, the institute has developed its own ERP which helps in monitoring the features like student related academic data such as admissions internal assessment marks, student feedback on teaching learning process & facilities at institute & department level, conduction of online exams, etc. The software also computes attainment of COs/POs/PSOs as a part of institute's emphasis on outcome based education system. It also has variety of administrative features for faculties such as 360 degree feedback, leave sanction.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	IPS ACADEMY, INSTITUTE OF ENGINEERING AND SCIENCE
Address	KNOWLEDGE VILLAGE, RAJENDRA NAGAR, A.B.ROAD
City	INDORE
State	Madhya Pradesh
Pin	452012
Website	https://ies.ipsacademy.org

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Archana Keerti Chowdhary	0731-4014618	9424000460	0731-4014602	director.ies@ipsacademy.org
IQAC / CIQA coordinator	Archana Keerti Chowdhary	0731-4014608	9424000460	0731-4014607	director.ies@ipsacademy.org

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details

Date of establishment of the college	23-09-1999

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Madhya Pradesh	Rajiv Gandhi Proudyogiki Vishwavidyalaya	[View Document](#)

Details of UGC recognition

Under Section	Date	View Document
2f of UGC	02-07-2018	[View Document](#)
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	[View Document](#)	15-06-2020	12	

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

Recognitions

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	National Board of Accreditation New Delhi
Date of recognition	10-04-2017

Location and Area of Campus				
Campus Type	**Address**	**Location***	**Campus Area in Acres**	**Built up Area in sq.mts.**
Main campus area	KNOWLEDGE VILLAGE, RAJENDRA NAGAR, A.B.ROAD	Rural	60	28620.14

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	**Name of Programme/Course**	**Duration in Months**	**Entry Qualification**	**Medium of Instruction**	**Sanctioned Strength**	**No.of Students Admitted**
UG	BTech,Civil Engineering	48	JEE or Higher Secondary	English	120	57
UG	BTech,Chemical Engineering	48	JEE or Higher Secondary	English	60	15
UG	BTech,Electronics And Communication Engineering	48	JEE or Higher Secondary	English	90	24
UG	BTech,Electrical And Electronics Engineering	48	JEE or Higher Secondary	English	90	17
UG	BTech,Computer Science And Engineering	48	JEE or Higher Secondary	English	60	54
UG	BTech,Computer Science And Engineering	48	JEE or Higher Secondary	English	180	162
UG	BTech,Computer Science	48	JEE or Higher	English	180	162

	And Engineering		Secondary			
UG	BTech,Computer Science And Engineering	48	JEE or Higher Secondary	English	60	49
UG	BTech,Fire Technology And Safety Engineering	48	JEE or Higher Secondary	English	180	84
UG	BTech,Mechanical Engineering	48	JEE or Higher Secondary	English	120	23
PG	Mtech,Civil Engineering	24	GATE or BE or B.Tech	English	18	14
PG	Mtech,Civil Engineering	24	GATE or BE or B.Tech	English	18	16
PG	Mtech,Chemical Engineering	24	GATE or BE or B.Tech	English	18	3
PG	ME,Electronics And Communication Engineering	24	GATE or BE or B.Tech	English	18	0
PG	Mtech,Electrical And Electronics Engineering	24	GATE or BE or B.Tech	English	18	3
PG	ME,Computer Science And Engineering	24	GATE or BE or B.Tech	English	18	4
PG	Mtech,Fire Technology And Safety Engineering	24	GATE or BE or B.Tech	English	18	9
PG	Mtech,Mechanical Engineering	24	GATE or BE or B.Tech	English	18	6

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0				0				0
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit				0				0				0
Sanctioned by the Management/Society or Other Authorized Bodies				22				38				150
Recruited	18	2	0	20	24	14	0	38	102	48	0	150
Yet to Recruit				2				0				0

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				61
Recruited	32	29	0	61
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				62
Recruited	51	11	0	62
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	11	2	0	7	8	0	14	18	0	60
M.Phil.	0	0	0	0	0	0	0	3	0	3
PG	7	0	0	17	6	0	88	27	0	145

Temporary Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	**Male**	**Female**	**Others**	**Total**
	2	0	0	2

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0
PG	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	23	38	37	62
	Female	7	2	5	8
	Others	0	0	0	0
ST	Male	6	16	7	17
	Female	5	5	4	0
	Others	0	0	0	0
OBC	Male	187	232	187	191
	Female	25	30	25	30
	Others	0	0	0	0
General	Male	372	430	293	373
	Female	84	88	50	68
	Others	0	0	0	0
Others	Male	20	0	0	0
	Female	10	0	0	0
	Others	0	0	0	0
Total		739	841	608	749

Extended Profile

1 Program

1.1

Number of courses offered by the Institution across all programs during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
564	571	537	544	551

File Description	Document
Institutional data prescribed format	View Document

1.2

Number of programs offered year-wise for last five years

2019-20	2018-19	2017-18	2016-17	2015-16
15	18	14	14	14

2 Students

2.1

Number of students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
2853	2952	2927	3026	2961

File Description	Document
Institutional data in prescribed format	View Document

2.2

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
573	603	483	483	483

File Description	Document
Institutional data in prescribed format	View Document

2.3

Number of outgoing / final year students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
688	820	776	609	538

File Description	Document
Institutional data in prescribed format	View Document

3 Teachers

3.1

Number of full time teachers year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
208	200	189	183	160

File Description	Document
Institutional data in prescribed format	View Document

3.2

Number of sanctioned posts year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
210	202	191	185	161

File Description	Document
Institutional data in prescribed format	View Document

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 110

4.2

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
1307.5	2262.6	2050.6	1697.4	1982

4.3

Number of Computers

Response: 1358

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

Response:

IPS Academy, Institute of Engg. & Sc. is affiliated to Rajiv Gandhi Prodyogiki Vishwavidyalaya and approved by AICTE. It conducts ten UG and eight PG programs in engineering. The Institute follows the curriculum approved by Rajiv Gandhi Prodyogiki Vishwavidyalaya. Institute has constituted an Academic Committee (AC) comprising of Principal, Heads of the Department (HODs), and Departmental Co-ordinators which is responsible for planning and monitoring of overall academic activities and its functioning. The institute has also constituted Institute Quality Assurance Cell (IQAC) as per constitution given by NAAC. Principal receives inputs from IQAC, Academic committee and Department Advisory Board (DAB). Based on their inputs, Co-curricular and extra-curricular activities are planned in academic calendar. The institute prepares the academic calendar in lieu with that of RGPV. Students are made aware of commencement of semester through common notice and website. Induction program for 1st year students is organized as per the norms of AICTE.

As per the prescribed syllabus of the University, individual faculty uploads unit wise course plan in Campus Management System (CMS) which is a Institute Enterprise Resource Planning developed for ensuring the effective curriculum delivery through a well planned and documented process before commencement of semester. The detailed course file with CO-PO-PSO mapping is prepared by each faculty member. Schedule of internal, external and project examinations are displayed on notice board from time to time and on the website.

Institute has adopted **"outcome based approach"** for the effective delivery of the curriculum with innovative and creative teaching learning process, tools and techniques by use of ICT, student centric methods, participative learning etc. for enhancing teaching and learning experience. The effective implementation of curriculum is ensured by supplementing classroom teaching with expert lectures, seminars, projects, in-house and industry supported projects, industry visits, industrial internships, hands-on-training, tutorials, case studies, e-learning, NPTEL lectures, technical quiz, assignments, mid-term tests, etc. Contents beyond curriculum are identified and taught both in the classroom and in the laboratory to expose students to recent trends in the industry. Departmental Development Committee ensures the progress of syllabus coverage every month. Students' feedback is taken in each semester through CMS system. Continuous assessment for Practical, Term work, Projects, Seminars, internal examination, assignment evaluation is being continuously monitored is done with the help of CMS.

All Internal Examinations like Class tests, Mid-term test are conducted as a part of continuous evaluation and to check whether the students have acquired knowledge as outlined in the course outcomes. Tutorials are held regularly to monitor the progress of the students. Remedial / Special classes are conducted for weak students. Advance Learners are made to solve University Question papers and efforts are made by Professors to improve their performance. Record of the regular attendance, mark lists and progress of the students are maintained and preserved by the respective departments.

It is worth mentioning here that the institute/departments conducted on-line classes and mid-term tests during COVID-19 lockdown period and shall continue to do so that the students do not come to the institute for classes.

File Description	Document
Upload Additional information	[View Document](#)
Link for Additional information	[View Document](#)

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

Institute is affiliated to RGPV and follows academic calendar of RGPV. Before commencement of each semester, institute prepares its own academic calendar in-line with university academic calendar. Based on Institute's academic calendar, department prepares its academic calendar showcasing events planned by individual department.

It has a standard procedure to plan and develop curricular, co-curricular and extra-curricular activities.

Dates proposed by university for commencement and conclusion of semester, in-semester, end-semester, examinations are reflected in institute's calendar and are strictly followed.

University schedules Practical examinations and appoints external examiners. Usually, practical examination period is of 1 weeks, planned by University. This schedule is sternly followed by institute.

Department Development Committee (DDC) discusses and plans various academic, co-curricular, extra-curricular and social activities in accordance with university calendar. All these activities are included in academic calendar of institute.

Various activities such as industrial visit, expert lecture, seminars/ workshops/ conferences, department social programs etc are included in department academic calendar.

Lesson plan is prepared by each teacher which adheres to the academic calendar of institute. Department Development Committee (DDC) has standard procedure of fortnight monitoring that ensures smooth conduction of lectures and practical sessions. Attendance of student is daily observed, students and parents also can view attendance of their wards on Campus Active (ERP of the institute) daily. The students having attendance less than 75%, have to attend the make-up classes in respective subjects.

Status of syllabus completion, defaulter students is reviewed by Mentor periodically in Mentor meeting.

Evaluation Sheets is weekly maintained by individual subject teacher as per the teaching plan of practical sessions.

Internal examinations are conducted by all the departments on the dates planned in academic calendar.

Results of internal assessment are declared and communicated to students within a scheduled time. The valued answer sheets of MST are shown to students and the grievance of Students, if any, are addressed by the concerned teacher.

Every department conducts project progress review and seminar presentations as per standard procedure set by each department according to academic calendar of department. This is the part of internal evaluation.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. **Academic council/BoS of Affiliating university**
2. **Setting of question papers for UG/PG programs**
3. **Design and Development of Curriculum for Add on/ certificate/ Diploma Courses**
4. **Assessment /evaluation process of the affiliating University**

Response: C. Any 2 of the above

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 100

1.2.1.1 **Number of Programmes in which CBCS / Elective course system implemented.**

Response: 15

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Link for Additional information	[View Document](#)

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 35

1.2.2.1 **How many Add on /Certificate programs are offered within the last 5 years.**

2019-20	2018-19	2017-18	2016-17	2015-16
5	11	7	8	4

File Description	Document
List of Add on /Certificate programs	[View Document](#)
Any additional information	[View Document](#)

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

Response: 10.25

1.2.3.1 **Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
262	328	325	426	171

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	[View Document](#)
Any additional information	[View Document](#)

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

Response:

The Institution believes that integrating cross cutting issues with the curriculum would create positive effect on the student in both in terms of his/her education and societal commitment. Accordingly courses in rural outreach, elocution [Vagmita] competition and role play are offered by the institution.

1. **Human Values**

During I year induction program, we impress upon the student's mind about five universal human values namely Peace, Freedom, Social progress, Right Conduct and Non-violence.

1. **CE/CM/EC/EX/ME/FT 6007-Creativity and Entrepreneurship Development**

Generate, develop and describe creative ideas that address the design challenge.

1. **CE/CM/EC/EX/ME/FT8007-Group Discussion**

Objective of **Group Discussion** is to improve the mass communication and convincing/ understanding skills of students.

1. **HU112-Rural Outreach**

Under this program, about 600 first year students went to nearby villages like Ranwasa etc on January 18, 2018 with branch coordinators.

1. **CE5008-Innovative thinking (Aptitude and Quantitative Training)**

To strengthen students' Aptitude and quantitative solving skill.

1. **BT1003- English**

1. **Role Play**

Role play is very important teaching instrument through which we make the students to act out the historical characters and situations.

1. **Elocution**

The term elocution is mainly used in reference to a speakers' manner of speech when speaking or reading aloud in public.

1. **ES3001-Energy, Environment, Ecology & Society**

This subject deals with the Sources of Energy, Segments of Environment, Air Pollution and Sound pollution, Society, ethics and Human Values.

1. **CE5005/CM7003-Environmental Engineering**

This subject deals with design of sewers, quality of water and waste water, estimation of water quality, treatment of waste water.

1. **EX503 Wind & Solar Energy**

This subject with the study of solar energy, solar radiation, solar cells.

1. **MEPE301 Non Conventional Energy Sources and Energy converters**

The subject deals with the study of Non-conventional energy sources like solar energy, also with the statistics of world resources and significance of renewable sources and their exploitation, energy planning, Energy efficiency and management.

1. **EX8004 Power Electronics Converters for Renewable Energy**

The course deals with: Photovoltaic effect, basics of power generation, P-V & I-V characteristics, Power extraction, tracking and MPPT schemes; standalone systems, grid interface, storage, AC-DC loads.

1. **EX8005 Major Projects**

Smart Solar Inverter, Solar based Home Automation System, Microcontroller based Solar Tracking System have been developed by the students as Major Projects.

1. **CE/CM/CS/EC/EX/FT/ME-4008 Professional Ethics**

This Course deals with improvement of the cognitive skills like moral awareness, moral coherence and also guides students to act in morally desirable ways.

1. Chemical engineering department has organized the following workshops related to Green Energy, Waste Management Solutions to the environment:

1. **"Waste to Wealth: Recent Trends & Advances in Development of Value Added Product from Waste"**
2. **"Advances on Waste Valorization: New Horizons for Sustainable Society"**
3. **"An Innovative Approach towards Recent Trends and advancements in Renewable energy Sources & Technologies for Sustainable Environment"**

4. **"Pollution to Solution: Recent Advancement in Environmental Technology for Sustainable Development"**
5. **National Workshop on "Nano Technology: An Innovative Approach and Application Towards Waste Mitigation for Cleaner & Sustainable Environment"**

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 2.78

1.3.2.1 **Number of courses that include experiential learning through project work/field work/internship year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
16	18	14	16	13

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year

Response: 22.01

1.3.3.1 **Number of students undertaking project work/field work / internships**

Response: 628

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	[View Document](#)
Any additional information	[View Document](#)

1.4 Feedback System

1.4.1 *Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni*

Response: A. All of the above

File Description	Document
URL for stakeholder feedback report	[View Document](#)

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1. **Feedback collected, analysed and action taken and feedback available on website**
2. **Feedback collected, analysed and action has been taken**
3. **Feedback collected and analysed**
4. **Feedback collected**
5. **Feedback not collected**

Response: C. Feedback collected and analysed

File Description	Document
URL for feedback report	[View Document](#)

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 72.89

2.1.1.1 **Number of students admitted year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
739	841	608	749	867

2.1.1.2 **Number of sanctioned seats year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
1146	1206	966	966	966

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 42.22

2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
201	230	188	222	256

File Description	Document
Average percentage of seats filled against seats reserved	[View Document](#)
Any additional information	[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Response:

The students are tracked during their academic journey in the Institute and special efforts are made to enhance the performance of slow learners. Students with good academic background and skills are guided to higher levels of achievements and encouraged towards challenging goals.

Before the commencement of the classes, Institute hosts Induction program for the freshers. Principal of institute address the freshers which covers the introduction of IPS Academy, Institute of Engineering & Science. Principal further elaborates academic facilities like library, laboratories, computer center and cultural activities. Head of First Year Engineering details out academic calendar, rules and regulations of University and examination pattern. Students are informed about placements and career opportunities by Training and Placement Officer.

Criteria for identification of advanced learner and slow learner:

To find out the learning levels of students, institute does following summative and formative evaluation, based on which they are identified as slow and advance learners.

Formative Evaluation:

Formative evaluation summarizes the student's development during outcome based continuous assessment in following ways:

- Question answer session during lectures.
- Tutorials
- Assignments
- Mid-Term Test
- Technical quiz

Summative Evaluation:

Summative evaluation refers to the assessment of students where the focus is on the outcome of a program. The following approach is adopted for assessment:

- Previous semester/year result analysis

If students scores less than 40% in summative and formative evaluation then they are identified as slow learners. And if they score more than 65% in same then they are categorized as advance learners.

To identify the students as advanced learner or slow learner, available data of merit marks is shared with the team of Mentors. Mentors, in regular meetings with all faculties of respective classes, carry out discussions based on analysis records available about students' learning levels, abilities, characteristics, skills, attitudes, examination results (internal and external) and their current day to day interactions/experiences. Based on this evaluation special activities are undertaken as per need.

Activities for Advanced learners :

* Encouragement to complete NPTEL/Advanced courses, Additional Library facilities, Participation in incubation center and Clubs like Robotics, Drone, BAJA etc.
* Participation in Seminars/Conferences/IIT events
* Paper publication and presentation
* Workshop/Seminar on current trends
* Model making/building
* Motivation and guidance for higher studies (competitive exams)
* Industrial visits/Internship and Industry sponsored/research project
* Students are involved in the research projects awarded to the institute by various funding agencies like AICTE, DST, etc.
* Mid-term Tests /Assignments

Activities for Slow learners :

* Remedial / Make-up classes/ Extra lectures
* Personal Attention in teaching
* Re-test for improvement
* Extra practical sessions
* Counseling – special hints and techniques
* Special notes
* Assignments and solving University question papers
* Question bank
* Guidance for Seminar/Project presentation
* Mock oral/practical examination
* Tutorials
* Industrial visits/Internship
* Test/Assignments

Institute has made special provision of exhaustive soft skills training and exclusive counseling to mould the slow and advanced learners to plan their career and placements.

File Description	Document
Upload any additional information	[View Document](#)
Past link for additional Information	[View Document](#)

2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Response: 14:1

File Description	Document
Any additional information	[View Document](#)

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

Experiential Learning Methods

- Field based experiential learning like Internship, industrial visits, industrial training.
- Experiential learning tutorials are conducted which includes proactive teaching learning methods.
- Multimedia teaching methods like animated videos, demo videos, ppts are incorporated in the day
- Today teaching process enhances students understanding of the subjects.
- Expert lectures, seminars, workshops, paper presentation and industrial visits are arranged for Students in every semester to give hands on experience to students.
- Wi-Fi facility is available in the campus to allow students to access technical resources.
- College Central Library is well equipped with technical magazines, journals and NPTEL lectures videos.

Participative learning-

- Students are encouraged for participative learning
- Institute collegiate events are organized to bring out the potential of the students.
- Faculty and students are motivated to participate in different technical paper presentation, conferences and workshops.
- Students are encouraged and guided to undertake industry sponsored project.
- Institute organizes various technical competitions such as paper presentation, project competition, and science exhibition.
- Real time, society based and industry sponsored projects are allocated to students.
- Faculty and Students are motivated to participate in NPTEL Online Courses and Exams.

Problem solving Methodology

- Soft skill trainings are organized periodically where expert guides the students regarding

presentation & communication skills.

- Numericals are solved in the tutorial period earmarked in the time table for each subject.

- Institute has appointed consultant for imparting soft skill to the students.
- A mentor is assigned for every 15-20 student.
- The institute promotes social awareness in the students through different activities.
- In projects/competitions, participating students are assigned different tasks, assignments, activities in which students engage in complex, challenging problems and collaboratively work toward their solutions by using inter-disciplinary knowledge e.g. ROBOTICS, BAJA etc.

Design Subjects such as Process Equipment Design, Reactor design, Structural Design (RCC and Steel), Machine Design, Circuit Design, Analog Circuit Design, Computer Aided Design of Machines etc. are being taught in each discipline of Engineering.

File Description	Document
Upload any additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

- Information & Communications Technology (ICT) enabled teaching methodologies and advanced technology are being followed by the faculty members in class rooms.
- The academic plan with budget, lesson plan, lab manuals and question banks with solution are made available at the very beginning of the semester.
- The use of multimedia teaching aids like, LCD projectors are usually in use in classroom.
- The electronic resource packages like Mc Graw Hill, ASCE, ASME, DELNET, NPTEL and Digital Library of various other e-resources are available.
- The faculty members effectively utilize Audio Visual aids to demonstrate the concepts to the students using the resources from National Programme on Technology Enhanced Learning (NPTEL) to enhance the learning experience. Web and video courses (offline) from NPTEL are accessible to faculty and students from the server installed in the library.
- Online tests are conducted.
- Online classes have been conducted during COVID-19 lockdown period from March 2020 to June 2020.
- Sufficient number of books, Journals, e-journals and e-books are available in the library.
- All the departments conduct seminars, workshops and guest lectures, for effective teaching and learning by the faculty members and students in each semester.
- Auditoriums are equipped with multimedia facilities using ICT tools for conducting various expert lectures, seminars and workshops and webinars are.
- Online feedback on faculty and institute infrastructure is taken.

CAMPUS ACTIVE

The college has developed an integrated Enterprise Resource Planning Software for faculty, students and administrators to overcome the challenges in the process of assessment of various parameters of Outcome Based education system (example: COs, POs and PSOs). Also, the tool is an online-platform that is meant to manage the entire procedure being it the allocation of courses to the faculty, student attendance, internal assessment, end-semester assessment etc.

File Description	Document
Upload any additional information	[View Document](#)

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Response: 14:1

2.3.3.1 Number of mentors

Response: 208

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	[View Document](#)
mentor/mentee ratio	[View Document](#)
Circulars pertaining to assigning mentors to mentees	[View Document](#)

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 99.06

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	[View Document](#)
List of the faculty members authenticated by the Head of HEI	[View Document](#)
Any additional information	[View Document](#)

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 22.56

2.4.2.1 **Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
59	49	43	36	28

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	[View Document](#)
Any additional information	[View Document](#)

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 4.91

2.4.3.1 **Total experience of full-time teachers**

Response: 1021.2

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	[View Document](#)
Any additional information	[View Document](#)

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

Institute follows RGPV's guidelines for the internal assessment of the theory and laboratory. In addition, institute has carefully designed and implemented the parallel mechanism to ensure preparedness of the students. Complete transparency is maintained in all forms of internal evaluations. Two internal examinations in each semester are planned in academic calendar and executed as per schedule. After assessment, answer sheets are distributed and discussed with students for their benefit and to maintain transparency in the evaluation. Remedial test is planned for students having unsatisfactory performance by

giving them sufficient time for preparation. Examination results are displayed on notice boards and CMS (Campus Management System). Overall performance, attendance, feedback about the student is communicated to parents by mentor faculty. These reforms for internal assessment are implemented from current academic year. Prior, two internal tests and assignments were conducted during the term and students were assessed based on their performance. It was observed that this bi-semester internal evaluation improves overall performance of students. Regular study habits are inculcated in the students.

Term work (TW) assessment

Various assessment parameters, their evaluation process and criteria are discussed by each course teacher with students at the beginning of every semester. Performance of each student for practical sessions is recorded weekly in Continuous Evaluation Sheet (CES) in front of students. TW of students, which carries 40% weightage in final university result, is evaluated based on performance in CES. Weekly continuous assessment ensures the regularity and indulges students to participate proactively. During practical sessions, course teacher discusses significance, advancements and applications of the contents. Teacher identifies advance learners and gives them challenges on selected topics. Concurrently teachers make an attempt to identify slow learners and help them depending upon the performance in the Continuous Evaluation.

Apart from class tests and CES, a wide variety of evaluation tools are introduced by institute for assessment and evaluation of performance of student. Depending upon suitability, one or more tools such as Presentations by students, Open book test, MCQs, Assignment, Tutorial, Group Discussions, Case study etc are used for every course in the semester.

Project work assessment

Twice in semester presentations are arranged to review progress of project work and evaluation sheets are maintained. These reviews forces student to be on toes and complete work in defined time. This enables student to remain focused, confident, improve presentation skills and communication skills. Project Competitions are arranged for UG students to display their work.

Internal and External Assessment for PG students:

It consists of Continuous assessment (CA) and End-semester Examination. The CA towards 50% marks is a continuous activity and at least two written tests are conducted and the teacher should select at least one evaluation method such as, Written Test, Term Paper, Seminar presentation, Assignments, Mini Research Projects, Dissertation Phase – I and Dissertation Phase – II.

File Description	Document
Any additional information	[View Document](#)

2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

Response:

The college has evolved a mechanism for redressal of grievances related to internal and external evaluation, which is as follows:

Internal Examinations:

The marks scored by the students in the mid-term tests are displayed by the concerned teacher within 7 days of exams. The assessed mid-term test papers are shown to the students for self-assessment.

In case of any grievances regarding internal assessment, the student is free to interact with the teacher and get it resolved.

University Examinations:

As per the RGPV university norms, following are the methods of grievance redressal regarding university assessment:

1. The Superintendent of Examination Centre shall take action against the Examinee who is found using or attempting to use unfair means in the examination hall or within the premises of the Examination Centre during the hours of examination, in the following manners:

2. The examinee shall be called upon to surrender all the objectionable material found in his/her possession including answer book and the memorandum shall be prepared with date and time.

3. The statement of the examinee and the invigilator shall be recorded.

4. The examinee shall be issued a fresh answer-book marked 'Duplicate-Using Unfair Means' to attempt answers within the remaining time prescribed for the examination.

5. The candidate who appeared to university examination can apply revaluation to the university within a period of 15 days from the date of declaration of the concerned examination result. The answer-book, in which revaluation is sought, will be sent for revaluation by the Kulpati to two examiners (other than the one who initially valued it) at least one of whom shall be from a place outside the territorial jurisdiction of the University. A copy of the memorandum of instructions for the guidance of examiners, if prepared by the paper setter, will be sent to each of the two examiners to enable them to evaluate the answer-book concerned in the light of the standards set by the examiner in the memorandum of instructions.

If the marks awarded in the paper by any of the two examiners vary from the marks given by the original examiner by more than 10% of the maximum marks in the paper, the average of the marks awarded by two of the examiners, amongst the original examiner and two revaluers which are nearest to each other, will be taken to represent "correct valuation". This average of marks will be awarded to the candidate for the revision of his/her results. Provided that subject to the condition that at least one of the variations from the original marks is more than 10% of the maximum marks in the paper, if the difference in marks allotted by

the first examiner and the original examiner is equal to the difference in marks allotted by the second examiner and the original examiner, that difference of marks shall be taken into account for arriving at the correct valuation which is to the best advantage of the candidate.

File Description	Document
Link for additional information	[View Document](#)

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

Institute has well defined Program outcomes (PO), program specific outcomes (PSO) and course outcomes (CO) for all programs.

Teachers are conversant with POs, PSOs of the programs as they are involved in PO, PSO evaluation process. Vision and mission of the college is discussed in meetings. Head of the department and teachers discuss POs and frame PSOs of the programs which are in line with Graduate Attributes and Vision, Mission of the Institute.

POs and PSOs are displayed for teachers and students at following locations:

- Institute web site
- HOD cabins
- Notice Boards
- Department laboratories
- Department Library
- Faculty Cabins

Principal delivers address to all newly admit first year students in the induction program. During this address institute vision, mission and program objectives are stated. Every course teacher discusses expected course outcomes with students at the beginning of each semester in his/her first lecture. POs, PSOs and COs are mandatory part of course file prepared by course teacher. These are attached in course files of each subject.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	[View Document](#)

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

COs/POs/PSOs/ are evaluated using Campus Active software developed by the institute.

PROGRAM OUTCOMES:

These are narrower statements that describe what students are expected to know and be able to do by the time of graduation. In addition, program will specify 2-4 Program Specific Outcomes (PSOs). The attainment refers to Knowledge, Skills and behaviour that students/graduates will acquire. The POs are summarized below:

Engineering Knowledge, Problem Analysis, Design / Development of solution, Investigation of complex problems, Modern Tool Usage, Engineer & Society, Environment & Sustainability, Ethics, Individual and Team Work, Communication, Project and Finance, Life Long Learning.

COURSE OUTCOMES:

These describe the attainment of the students at the time of completion of course. While framing COs the following verbs will be used like analyse, apply, demonstrate, design, evaluate, prepare, explain, present, formulate. Each course of the program shall have 5-6 Cos.

Assessment of Outcomes

Assessment of these outcomes may be done by direct and indirect methods. Direct methods of assessment essentially comprise of direct examination or assignments based on activities involving observation of student knowledge or skills against measurable performance indicators. On the other hands, indirect methods of assessment of outcome are based on surveys.

Attainment of Course Outcomes

1. **CO Attainment through University exams (COU)** : Attainment Level 1: x% (say 60%) students scoring (?) than university average percentage marks

   Attainment Level 2: (x + ?x) % students scoring (?) than   university average % marks

   Attainment Level 3: (x + 2?x) % students scoring (?) univ. average % marks

?x can be selected as '5' or '10'.

CO Attainment through internal assessments (COI) :

Assessment instruments (Indirect): Course End Survey. (COII)

Attainment level 1: x% (say 60%) students scoring more than set % of marks (say 55%), out of relevant maximum marks.

Attainment Level 2: (x + ?x) students scoring (?) than set % marks (say 55%) out of relevant maximum marks.

Attainment Level 3: (x + 2?x) % students scoring (?) (set % marks, say 55%) out of relevant maximum marks. ?x can be selected as '5' or '10'. The attainment levels should be set considering average performance levels in the university in the past.

COI CO attainment through internal assessments = 0.7 x direct attainment (CODI) + 0.3 x indirect attainment (COII).

Final CO attainment COC = 0.6 COU + 0.4 COI

The assessment results obtained above shall be rounded off to the nearest integer.

Note : (The aboveprocedure is to be repeated for all COs in the respective subjects.)

PO attainment :

Direct attainment (POD) is obtained as the average of entries (without rounding off to the nearest integer) in the columns corresponding to each PO in the program articulation matrix.

Indirect attainment (POI) is determined based on the Student Exit Surveys, Employer Surveys, Co-curricular and extracurricular activities on a scale of 1-3.

Final PO attainment = 0.8xPOD+0.2xPOI (no rounding off to the nearest integer required)

File Description	Document
Paste link for Additional information	[View Document]()

2.6.3 Average pass percentage of Students during last five years

Response: 93.52

2.6.3.1 **Number of final year students who passed the university examination year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
681	808	689	545	494

2.6.3.2 **Number of final year students who appeared for the university examination year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
688	820	776	609	538

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	[View Document]()
Paste link for the annual report	[View Document]()

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.26

File Description	Document
Upload database of all currently enrolled students (Data Template)	[View Document]()

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Response: 6.89

3.1.1.1 **Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
6.89	0.00	0.00	0.00	0.00

File Description	Document
List of endowments / projects with details of grants	[View Document](#)
e-copies of the grant award letters for sponsored research projects / endowments	[View Document](#)

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Response: 0

3.1.2.1 **Number of teachers recognized as research guides**

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 2.86

3.1.3.1 **Number of departments having Research projects funded by government and non-government agencies during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
1	0	0	0	0

3.1.3.2 **Number of departments offering academic programes**

2019-20	2018-19	2017-18	2016-17	2015-16
7	7	7	7	7

File Description	Document
Supporting document from Funding Agency	[View Document](#)
List of research projects and funding details	[View Document](#)
Paste link to funding agency website	[View Document](#)

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

With a vision to nurture new ventures in the ever developing areas of Civil Engineering, Computer Science Engineering, Electrical and Electronics Engineering, Electronics and Communication Fire and Safety Engineering, Chemical Engineering and Mechanical Engineering. IPA Academy, Institute of Engineering & Science has started an **Incubation Centre** under the banner of **MSME, New Delhi**. Focusing on providing support to the many companies (start-ups and/or well established), the centre mainly aims at fostering innovative research and entrepreneurial activities in the above mentioned technological and engineering based areas. Providing a suitable platform for enthusiastic entrepreneurs, the centre helps convert their inventive ideas into high quality student projects.

The programs under this incubation centre are mainly divided into three categories :

Mentoring

The mentoring cell supports and encourages the students to maximize their learning potential. They are individually motivated to develop their personal skills.

Entrepreneurial Promotion /Awareness Programs

This set up introduces young budding dreamers to entrepreneurship. Enhancing their creativity, innovation and self-confidence, the endeavors they undertake are encouraged.

Technical Training

Technical training includes technology applications, products, sales, service tactics and more. These technical skills are very job-specific and are transferable unlike soft skills. As a result, students become

Independent and eligible for formal funding support.

Institute Innovation Council (IIC)

Ministry of Education, Govt. of India has established its "Innovation Cell" at IPS Academy, Institute of Engineering & Science, Indore for Technical Education with a purpose of systematically fostering the culture of Innovation. The IIC at IPS Academy Institute of Engineering & Science was rank under top 25 performers at National level during the session 2018-19 and top 3 performer in Central India zone during the session 2019-20.

The aim of IIC is to create and strengthen the culture of Innovation and entrepreneurship ecosystem across all HEIs.Enable them in promoting and supporting student innovations and sustainable start-ups from academic institutions.To engage, encourage and channelize the creative energy and entrepreneurial potential of Indian youths to build innovations and enterprises.

Under IIC activities like awareness of IPR, EACs, Bootstrap Camps, Leadership talks, copy right training, Industrial Visit, Ideas, POCs startup camps etc. are organized.

Innovation and Entrepreneurship Development Centre (IEDC Cell)

IPS Academy, Institute of Engineering and Science, Indore established **IEDC Cell** (Innovation and Entrepreneurship Development Centre) in year 2012 in collaboration with National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of science & Technology (DST), Government of India.

? The following programs were organized to develop entrepreneurship skills in students and to familiarize them with various procedures required in converting an idea into a successful business.

? This cell is handled by CSE & ME coordinator who is senior faculty with experience.

Entrepreneurship Activities Held during last five years:

Year	Name of the workshop/ seminar	Date From – To
2019-2020	Entrepreneurship Awareness Camp	07/11/2019 to 09/11/0219
		17/10/2019 to 19/10/2019
		18-20 Sept. 2019
		23/09/2019 to 25/09/2019
	Women Entrepreneurship Development Program	10/01/2020 to 08/02/2020

	Entrepreneurship Awareness Camp	26/09/2019 to 27/09/2019
2018-2019	Entrepreneurship Awareness Camp	01/11/2018 to 03/11/2018
		04/10/2018 to 06/10/2018
		17/09/2018 to 19/09/2018
		20/08/2018 to 23/08/2018
	Women Entrepreneurship Development Program	01/12/2018 to 30/12/2018
	Entrepreneurship Awareness Camp	11/10/2018 to 13/10/2018
		13/08/2018 to 16/08/2018
		10/09/2018 to 12/09/2018
		06/09/2018 to 08/09/2018
2017-2018	Entrepreneurship Awareness Camp	05/10/2017 to 07/10/2017
		09/10/2017 to 11/10/2017
		07/09/2017 to 09/09/2017
		30/08/2017 to 01/09/2017

File Description	Document
Upload any additional information	[View Document](#)

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 39

3.2.2.1 **Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
12	9	7	7	4

File Description	Document
Report of the event	[View Document](#)
List of workshops/seminars during last 5 years	[View Document](#)

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 0

3.3.1.1 **How many Ph.Ds registered per eligible teacher within last five years**

3.3.1.2 **Number of teachers recognized as guides during the last five years**

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	[View Document](#)

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 0.1

3.3.2.1 **Number of research papers in the Journals notified on UGC website during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
03	06	07	01	01

File Description	Document
List of research papers by title, author, department, name and year of publication	[View Document](#)
Any additional information	[View Document](#)

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.07

3.3.3.1 **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
01	03	04	04	02

File Description	Document
List books and chapters edited volumes/ books published	[View Document](#)
Any additional information	[View Document](#)

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

IPS Academy, Institute of Engineering & Science has registered NSS unit, which takes the responsibility of community based activities. NSS unit organizes programs such as Tree Plantation, Swacch Bharat, Cleanliness drive, blood donation camp, Visit to orphanages, matdan jagrati abhiyan, Traffic Awareness Camps. Organizing such events creates awareness about the society and their social responsibility.

Institute promotes faculties to organize and conduct different extension activities and workshop in other institutes. Under this, the institute has conducted many extension activities for society in viscinity and at different other locations.

The institute has also adopted two villages i.e. Solsinda and Katkiya. The institute has donated 10 computers with power backup. Also the institute has donated a 3000 L capacity water tank to Katkiya for storage of water.

Under the banner of rural outreach, the students of 1st year had visited a nearby village – Magarkheda and identified the problem generating issues related to hygiene and water and also submitted a report to Unnat Bharat Abhiyan. Students have also visited to villages viz. Rangwasa and Bicholiya Hapsi.

The institute has received Certificate of Appreciation for significant contribution in "One Student One Tree" – an initiative by AICTE on 3rd Dec, 2019.

The institute has been Awarded by RGPV for Best Green Practices adopted in the field of Energy Conservation.

For holistic development of the students- tests, sports, cultural events, technical and non- technical events are organized.

- For intellectual development session on competitive exams and test are conducted.
- For emotional and individual development mentoring and counseling is done.
- For social awareness and development NSS programs are organized.
- Sport events are organized for physical development of students.

Institute follows a mechanism for students' involvement in various social activities which promote citizenship roles. Besides this, the institute organizes other activities also as per need and availability of time without affecting academics. The spirit of voluntary work through sustained community interaction and link between campus and community is enthralled amongst students, which reflects on the personality development of students through community service. Various activities conducted towards community services and appreciations received are also reported in point no. 3.4.3 to 3.4.4 of the SSR. Students and faculty volunteers have contributed in the field of mass literacy, environment preservation, watershed management, health education, disaster management, food for the homeless, communal and social harmony etc. in past years. Various activities which have contributed towards patriotism, national services and students are briefed below with their impact as mentioned.

- Women's Day
- Teachers Day
- Engineers Day
- Fire Day
- World Water Day
- Hindi Diwas
- National Fire Service Day
- World Ozone Day
- World Natural Disaster Reduction Day
- World Computer Literacy Day
- Energy Conservation Day
- World Telecom Day

File Description	Document
Upload any additional information	[View Document](#)

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 0

3.4.2.1 **Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Number of awards for extension activities in last 5 year	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the last five years (including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)

Response: 15

3.4.3.1 **Number of extension and outreached Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
1	4	2	4	4

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 3.84

3.4.4.1 **Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
00	270	53	149	99

File Description	Document
Report of the event	[View Document](#)
Average percentage of students participating in extension activities with Govt or NGO etc	[View Document](#)

3.5 Collaboration

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 0

3.5.1.1 **Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
e-copies of related Document	[View Document](#)
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	[View Document](#)

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 5

3.5.2.1 **Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
3	2	0	0	0

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Response:

IPS Academy, Institute of Engineering & Science has developed high-tech campus with modern facilities/learning resources as per the curriculum requirements and norms of statutory/regulatory bodies.

The Institute provides resources and infrastructure for academic excellence according to its Vision and Strategic Objectives. The infrastructure facilities and learning resources are categorized as under:

(a)**Learning Resources:** This includes resources and infrastructure required for library, laboratories, class room teaching, events, meetings, workshops, etc.

(b)**Support facilities** include cafeterias, hostels, auditoriums, seminar halls, etc.

(c)**Utilities** like safe drinking water, washroom, Heat Ventilation & Air Conditioning, Power Generators, etc.

Details regarding the infrastructure and Learning resources are described below:

Instructional Area:

Room Type	Nos.
Additional Workshop	1
Classroom and Tutorial Rooms	92
Drawing Hall	2
Laboratory	100
Research Laboratory	1
Seminar Hall	6
Workshop	1

Administrative Area:

Room Type	Nos.
Directors Office	1
Cabin for Head of Dept	12
Faculty Room	200
Exam Control Office	1
ADMIN OFFICE	1
Board Room	1
Central Store	1
Department Office	8
Pantry for Staff	1
Placement Office	1
Reception Area	1

Amenities Area:

Room Type	Nos.
Auditorium	4
Boys Common Room	4
Cafeteria	1
First aid cum Sick Room	1
Girls Common Room	3
Sports Club	1
Stationary	1

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Computing Equipments: For Internet access and computing purpose, the institute has massive network of 2216 computers with 100 Mbps band width. Centralized firewall Cyber-roam is used to monitor the usage of Internet by individuals. All computers are connected by LAN and Internet. Some computer laboratories are equipped with high end servers and computers with high end processors. The institute also provides computing facilities to promote R&D activities.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Response:

The Institute has always encouraged and supported the cultural and extracurricular activities for all round development of students. As part of this endeavor we have a well-established Sports Club and Cultural Activity Club for effective and better coordination of various sports and cultural activities which is headed by Sports In-charge & Cultural In-charge respectively and supported by the student sports and cultural committees. The college has following Outdoor and Indoor sports facilities.

Outdoor Games: Cricket, Football, Netball, Kho-kho, Volleyball, Kabaddi and Hockey.

Indoor Games: Table tennis, Chess, Carrom, etc.

Our students have earned applauds in the various competitions at University, State and National level sports and cultural competitions. The student achievement is also acknowledged by felicitating them at Institute level Annual functions. The institute provides all sports material to students. Apart from participation at various sports and cultural event, the institute also organizes following events every year :
1. Swaranjali – (cultural fest),

2. The VOICE of IES,

3. Inter departmental Sports events.

The students sports and cultural committees are actively involved in organizing the above events and we are proud to say that the above events are organized by the students and for the students. The Institute supports and encourages various sports and cultural activities with the motto that every student should, not only be academically fit but also physically fit to face the challenges of the society after they complete their education from the institute.

SPORTS FACILITIES

OUTDOOR GAMES			
S.No.	Name of Sports	Specification	Area
1	CRICKET GROUND	65 m	65 m
2	FOOTBALL GROUND	88 m X 72 m	6336 (sq. m)
3	BASKETBALL SYNTHETIC COURTS	2 COURTS 28 m X 15 m	840 (sq. m)
4	LAWN TENNIS SYNTHETIC COURTS	2 COURTS 23.77 m X 8.23 m	195.62 (sq. m)
5	VOLLEYBALL COURT	18 m X 9 m	162 (sq. m)
6	KHO-KHO GROUND	29 m X 16 m	464 (sq. m)
7	HORSE RIDING	OPEN AREA	OPEN AREA
8	ATHLETICS TRACK	400 m	400 m

INDOOR GAMES			
S.No.	Name of Sports	Specification	Area
1	RIFLE SHOOTING	1 HALL	100 m RANGE
2	TABLE TENNIS	1 HALL	06 TABLES
3	JUDO	1 HALL 14 m X 14 m (MAT AREA)	196 (sq. m)
4	KARATE	1 HALL ALONG WITH MATS	1 HALL ALONG WITH MATS
5	TAEKWONDO	1 HALL ALONG WITH MATS	1 HALL ALONG WITH MATS
6	CHESS	1 ROOM	1 ROOM
7	SWIMMING POOL	25 m X 10 m	250
8	BADMINTON	15 m x 7 m	105 (sq. m)

File Description	Document
Paste link for additional information	[View Document](#)

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. *(Data for the latest completed academic year)*

Response: 89.09

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 98

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 23.67

4.1.4.1 **Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
99.23	571.41	692.17	455.16	493.8

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document
Upload audited utilization statements	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

The library of Institute of Engineering and Science, IPS Academy spanning over an area of 1150 square meter including reading room. Library is equipped with Software for University Libraries (SOUL) is an state-of-the-art integrated library management software designed and developed by the INFLIBNET Centre based on requirements of college and university libraries. Our institute has the latest version of the software i.e. SOUL 2.0.

- Name of ILMS software : **SOUL**

- Nature of automation: **Partially**

- Version : **2.0**

- Year of Automation: **2010**

The Library of the Institute of Engineering & Science has an excellent knowledge providing facility for the benefit of students, faculties and researchers. The central Library has a large collection of books covering various branches of Engineering and Technology, Basic Sciences, and Humanities and its related fields.

Library has more than 37820 books including reference books. The institution has subscription for the e-resources like e-journals, e-ShodhSindhu, Shodhganga Membership and e-books.

File Description	Document
Upload any additional information	View Document
Paste link for Additional Information	View Document

4.2.2 The institution has subscription for the following e-resources

1. **e-journals**
2. **e-ShodhSindhu**
3. **Shodhganga Membership**
4. **e-books**
5. **Databases**
6. **Remote access to e-resources**

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 0

4.2.3.1 **Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	
Audited statements of accounts	
Any additional information	

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the last completed academic year

Response: 2.38

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 73

File Description	Document
Details of library usage by teachers and students	

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

In this electronic communication era, the internet communication is very important in teaching learning process. To fulfill the norms of AICTE and University, the institute has very strong IT infrastructure. The Institute is currently subscribed with the service provider "Bharti -Airtel" for the internet services. The internet is available via LAN exclusively in labs for performing practicals. The same network is used for institute's intra-mail. The network is secured since it has its own firewalls and anti-virus/worm programs to protect vital institute information and database apart from confidential emails of all its users.

Application Softwares such as MATLAB, ANSYS, Auto CAD Civil 3D, AFT, Micro wind 3.5, ABAQUS, SAP 2000, Etab, PRIMAVERA, COMSOL Multiphysics, Target 3001, EDSA, Windows Vista Business OS, etc are available at institute level. Windows Operating System are updated as per need. Older versions of Hardware like Desktop, CPU and printers have been replaced as in when required. Institute has well established language lab to enhance communication skills of student and faculty.

Faculty members have been provided with the computer and Internet connection at their respective cabins. All the Computer laboratories and facilities are connected with the Internet and are made available to the faculties and students for their academic needs in their respective departments.

- Name of the Internet provider   : Airtel
- Available band width   : 1GbPS
- Access speed   : Good
- Availability of internet in an exclusive lab   : Yes
- Availability in most computing labs   : Yes
- Availability in departments and other units   : Yes
- Availability in faculty rooms   : Yes
- Institute's own-mail facility to faculty/students   : Yes
- Security/privacy to e-mail/internet users   : Yes

File Description	Document
Upload any additional information	View Document

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 2.1

File Description	Document
Upload any additional information	[View Document](#)
Student – computer ratio	[View Document](#)

4.3.3 Bandwidth of internet connection in the Institution

Response: E. < 05 MBPS

File Description	Document
Upload any additional Information	[View Document](#)
Details of available bandwidth of internet connection in the Institution	[View Document](#)

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 0.64

4.4.1.1 **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
13.2	13	7.5	11.5	10.9

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	[View Document](#)
Audited statements of accounts	[View Document](#)

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

The institute adopts an established systems and procedures for maintaining the physical, academic and support facilities. There are institute level committees like General Civil maintenance Committee, Sports

Committee and Purchase Committee that look after the various aspects of the utilization and maintenance of the physical, academic and support facilities. The role and responsibilities of committees are given below.

General civil maintenance and upkeep of civil infrastructure is carried out at the institute level. Repairs and Maintenance of laboratory equipments/instruments are initiated by the respective Laboratory in-charge as and when required. The purchase committee handles the repair/maintenance/calibration request appropriately by placing order to the respective equipment experts. History cards of the equipments are maintained, which indicate the maintenance/repair/calibration of the respective equipments. As a precautionary measure laboratory in-charge, along with laboratory technician, ensures proper working of all equipment at the beginning of each semester.

- A budget is annually allocated for maintenance of the physical and academic support facilities of the institute.
- The classrooms, laboratories, seminar halls, and library facilities are utilized regularly by the students for the learning process and time tables/log books indicate the regular utilization of the respective facilities.
- The maintenance and housekeeping of the classrooms, laboratories, library, and the institute as a whole are taken care by non-teaching staff of the institute.
- The institute has adequate number of computers with internet connections and required software's distributed in different locations like office, laboratories, library, departments etc.
- There are computer/software laboratories for each department and a central computer laboratory with proper networking for internet access.
- The central library has a reading hall and separate computers for students to access e-journals, while the subscribed e-journals can also be accessed from any networked computer in the institute. In addition every department has its own library.
- All the computer related facilities including hardware, computer peripherals, and UPS are maintained at institute level by computer science department.
- The maintenance of water coolers, EPABX system, and Air conditioners in the institute is carried at institutional level by the store & maintenance department.
- Minor maintenance of furniture items and metal fixtures is carried out by the workshop department and the minor electrical maintenance is looked after by the Store and Maintenance department.
- The sports facility of the institute is handled by a sports coordinator and these facilities are made available to all the students of the institute.
- The institute has large open grounds for cricket, football, volleyball and basketball utilized by the students.
- Emergency exits and firefighting system are provided to counter situations like fire hazard and natural calamities.

File Description	Document
Upload any additional information	[View Document](#)

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 29.55

5.1.1.1 **Number of students benefited by scholarships and freeships provided by the Government year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
931	958	857	828	771

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	[View Document]
Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)	[View Document]

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 0

5.1.2.1 **Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)	[View Document]

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the

following

1. **Soft skills**
2. **Language and communication skills**
3. **Life skills (Yoga, physical fitness, health and hygine)**
4. **ICT/computing skills**

Response: C. 2 of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	[View Document](#)
Link to Institutional website	[View Document](#)

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 69.74

5.1.4.1 **Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
2049	2073	2759	2123	1251

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	[View Document](#)
Any additional information	[View Document](#)

5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. **Implementation of guidelines of statutory/regulatory bodies**
2. **Organisation wide awareness and undertakings on policies with zero tolerance**
3. **Mechanisms for submission of online/offline students' grievances**
4. **Timely redressal of the grievances through appropriate committees**

Response: C. 2 of the above

File Description	Document
Upload any additional information	[View Document](#)
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	[View Document](#)
Details of student grievances including sexual harassment and ragging cases	[View Document](#)

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 43.71

5.2.1.1 **Number of outgoing students placed year - wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
202	380	363	302	250

File Description	Document
Upload any additional information	[View Document](#)
Details of student placement during the last five years (Data Template)	[View Document](#)

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 14.24

5.2.2.1 **Number of outgoing student progression to higher education during last five years**

Response: 98

File Description	Document
Upload supporting data for student/alumni	[View Document](#)
Details of student progression to higher education (Data Template)	[View Document](#)

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/

Civil Services/State government examinations, etc.)

Response: 16.06

5.2.3.1 **Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, *etc.*)) year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
28	25	29	33	14

5.2.3.2 **Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
133	163	212	154	159

File Description	Document
Upload supporting data for the same	[View Document](#)
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	[View Document](#)

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 3

5.3.1.1 **Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
2	1	0	0	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	[View Document](#)
e-copies of award letters and certificates	[View Document](#)

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)

Response:

The institute has different student committees in which students show their leadership skills in academic, co-curriculum and extra-curriculum activities. They take initiative to coordinate various academic and non academic activities. The committees members are encourage other students to participate and show their talent in various events and organize the same. The names of Committee members are displayed at various places in college including posters, brochure and Notice boards.

Following are the committees/ club/ Events in which students are members or coordinators for events.

1. Discipline & Anti-Ragging:

The student representative of all the departments in the Discipline and Anti-ragging Committee confirm discipline and ragging free environment in the institute.

2. Cultural & Sports:

The student representatives of this committee, co-ordinates various

Cultural activities and events throughout the year.

"Swaranjali"- Annual Cultural and Sports Event, "Voice of IES"- Singing Competition, Football, Cricket etc.

3. Technical Activities:

Every year various technical events are organized by the various department of the institute like SRUJAN, ENIVSAGE, SAMEEKSHA etc, for which students are selected to co-ordinate and conduct the events successfully.

Following are the technical events being organized by the institute:

SRUJAN

Civil Department organizes annually one week National Seminar on various themes. The seminar is

symphony of various events including Expert lectures, Panel Discussion, Plantech, Instridge & various on the spot events.

SAMEEKSHA

Annual quiz event tests the normal Intelligentsia and Knowledge in general Civil Engineering.

ENVISAGE

Technical Fest organized by students of CSE department which is attended by approx 1800 students of all over India. The speakers who have delivered expert lectures are; Prof. Yashavant Kanetkar, Prof. Atul Kahate, Prof. E. Balagurusami and many more. The various events like paper presentation, ROBO war, LAN Gaming, Treasure Hunt etc have been organized.

NEEV

Civil-IPSA organizes its annual event "NEEV", National Level Student's Paper Presentation every year since last 8 years in April.

Society of Automotive Engineers, India (BAJA SAE India)

The BAJA SAE Series is an event for the UG students to design, fabricate and validate a single seater four - wheeled off road vehicle to take part in series of events.

Linguister Student Club

Linguisters is a literary club, an initiative by students of Department of Electronics and Communcation to provide a platform for the students to foster their soft skills and to reduce their stage fear various activities are organized under the club for all students.

4. Extension Activities

Any education is incomplete without social awareness. Committee carrying out different activities such as Blood donation Camp, Swachchata Pakhwada, Yoga day, Tree plantation, Traffic awareness camp etc

5. Organization of Special Events

Students organize National Teachers day, IES Foundation day celebrations on 23 Sept. and other National celebrations like Engineers day, Science day, Hindi Diwas, Ozone day, Telecommunication day, Safety day, Computer Literacy day, Natural Disaster day, Woman's day, Energy Conservation, Fire Service day etc.

File Description	Document
Upload any additional information	[View Document](#)

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 8.2

5.3.3.1 **Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
10	12	9	6	4

File Description	Document
Report of the event	View Document
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

The Institute established Alumni association in the academic year 2013-14. The main objectives of association are

1. To promote and foster mutually beneficial interaction between Alumni and the Institute.
2. To encourage the Alumni to take abiding interest in the process and development of Institute.
3. To arrange and support in placement activities for the students of Institute.
4. To encourage the students of the Institute and members of the Association for research & development work in various fields like engineering, computer Industrialization etc.
5. To mentor the students of the Institute for higher education and development of character.
6. To encourage and guide the students of the Institute on self-employment to become entrepreneurs.
7. To guide students of the Institute on various professional avenues available and support them through various activities such as expert advice, seminars, visit etc.
8. Promote the Industry-Institute interaction to bridge the gap between industry requirements and education offered and enhance students' employability.
9. To help and assist other regional bodies for training programs in entrepreneurship development, with resources available with association.

10. To encourage and support students of the Institute in sports, cultural and extra-curricular activities.
11. To promote computer and internet literacy among the society.
12. To provide medical support to existing and retired teaching and non-teaching staff.
13. To help and guide students and ex-students of the Institute for anti-drug, anti-ragging, and any other anti-social activities.

Sighting the above objectives of Alumni Association our alumni contributes in many ways for the development and betterment of our Institute. Our students and Institute are benefited in various fields such as student placement, training, expert lectures, career guidance sessions, Industrial visits and mentoring. The alumni of Institute is guiding and nurturing our students to become engineering professionals. It is our plan to develop everlasting relations with our alumni which in turn will give rise to mutual benefits.

File Description	Document
Upload any additional information	[View Document](#)

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Response: E. <1 Lakhs

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

Response:

VISION:

To be the fountainhead of novel ideas & innovations in science & technology and persist to be a foundation of pride for all Indians.

MISSION:

- To provide value based broad Engineering, Technology and Science education where in students are urged to develop their professional skills.
- To inculcate dedication, hard work, sincerity, integrity and ethics in building up overall professional personality of our student and faculty.
- To inculcate a spirit of entrepreneurship and innovation in passing out students.
- To instigate sponsored research and provide consultancy services in technical, educational and industrial areas.

Vision and Mission of the Institute focuses on the needs of social and corporate world by providing quality education. The organization structure comprising of Board of Governance (BOG), Internal Quality Assurance Cell (IQAC), Advisory Board Committee (ABC), Head of the Departments (HoDs), Departmental Development Committee (DDC) and Class Co-Ordinator Committee (CCC) etc. plays significant role in the evolutionary reforms towards positioning the Institute in the preferred list of all stake holders.

The Principal of Institute is assisted by HoDs and coordinators of various cells/committees in decision making process of the Institute. Faculty and staff are assigned with the roles and responsibility to work in a harmonious environment with complete transparency. Internal Quality Assurance Cell (IQAC) constituted as per NAAC guidelines has a well-developed process to ensure quality benchmarks of academic and administrative activities.

The Institute maintains the culture of retention of faculty and hence has an edge of dedicated faculties for realizing its Vision. Institute follows recruitment policies and service conditions as per the rules and regulations of regulatory authorities (RGPV, DTE-MP). Fair representation of women faculty is also ensured at all levels of organization and congenial environment is fostered.

Based on the Vision and Mission of the Institution, Quality Policies are framed and driven by the needs of the corporate world, society and stakeholders. Institute has a perspective plan developed by Principal and HoD's with advice of Internal Quality Assurance Cell (IQAC), Advisory Board Committee (ABC) under the guidance of Governing Body (GB). Deployment of the quality policy is done by providing requisite

academic infrastructure, learning environment and harmonious work culture. Student's surveys and feedback from all the stakeholders plays vital role in framing and revising the policies.

Departmental Development Committee (DDC) formulates perspective plan taking into consideration inputs from all stake holders and the Advisory Board Committee (ABC). This plan is presented and deliberated in Internal Quality Assurance Cell (IQAC) under the Chairmanship of Principal to get consensus. This plan is forwarded to the Board of Governors (BoG) for approval.

The Institution policy believes involvement of all faculty and staff in decision making. To streamline the same, various committees (such as Advisory Board Committee, Department Development Committee Class co-ordinator Committee etc.) at institute level are formed which looks after academic and administrative activities which leads to the realization of vision and mission of the institute.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

Response:

The management of the institute consists of a Governing Body with a panel of members as per norms, nominees from Management, regulatory bodies such as AICTE, Affiliating University (RGPV) and the State Government (Higher Education Nominee).

Decentralization in working:

- The Principal providing the required leadership to the institution and its system. The principal ensures that all provision of the university bye-laws, statutes and the regulations are observed. She convenes the meetings of the Advisory Board, Finance committee, Institutional Development and Monitoring Committee, Selection Committee. She also over sees admission of students, recruitment of faculty, curricular programs, etc. through appropriate functional heads and committees.
- The faculty are actively engaged and involved in decision making process.
- Periodic meetings of HoDs of all the departments and the intra-departmental meetings, convey and implement decisions taken by the committees and endorsed by management. This helps to refine and run the system of administration to continuously sustain, renew and enhance quality of the education by the institution.
- The Finance aspects are looked after by the Finance Officer and are assisted by the Accountant.

Institute is keen on the teachers' involvement and participation for improvement of effectiveness and efficiency of the institutional teaching learning process. The Institute has always been in favor of participative management. The decision suggested by teachers in the meetings in the forum of HoD, ABC and department meetings are conveyed to the management through principal. The management ensures that the opinions and suggestions made by faculty and staff are included in decisions implemented for institute development. This process probes to the institutional practices for decentralization and participative management.

Case Study : Industry institute interaction Cell

The Objective of III Cell :

1. To Create adequate facilities of updating knowledge of professional engineering and technologies to meet growth and development needs of industry.
2. To coordinate the research and development activities of the two systems i.e. Industry and Academics.

Constitution of Cell:

The cell is Constituted as under :

1. Mr. B. Phadke, Professor, Department of Electrical and Electronics Engineering – In-charge III Cell
2. Mr. R.C. Dubey, Professor, Department of Electronics & Communication Engineering- Member III Cell
3. Dr. D.S. Yadav, Asso. Prof., Department of Electronics & Communication Engineering - Member III Cell
4. Dr. S. N. Verma, Professor, Department of Fire & Safety Engineering - Member III Cell
5. Mr. Sunil Harne, Asso. Prof., Department of Civil Engineering- Member III Cell
6. Mr. Kamlesh Gupta, Asst. Prof., Department of Electrical and Electronics Engineering - Member III Cell
7. Mr. J. Gangerade, Asso. Prof., Department of Computer Science Engineering- Member III Cell
8. Dr. Abhinesh Prajapati, Asso. Prof., Department of chemical Engineering- Member III Cell
9. Mr. Rahul Samre, Asst. Prof., Department of Mechanical Engineering- Member III Cell

Events organized :

1. Industry Institute Interaction Conclave on "Bridging the gap between academicia-industry – Create skills through symbiotic growth" on Jan 28, 2017.
2. Industry Institute Interaction Conclave on "Engineering excellence internalize the competencies required to excel" on April 21, 2018.

File Description	Document
Upload any additional information	<u>View Document</u>
Paste link for additional information	<u>View Document</u>

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

Perspective plan is available and uploaded.

Successfully Implemented Example: Campus Management System (CMS)

Campus Active is a next generation MIS that is transparent, flexible, paperless, and easy to use and has been designed & developed to deliver real conceivable benefits to institutes. Hence Campus Active plays an important role in making the working as desired for fulfillment of all academic activities.

Normally ERP systems for college campuses cover the online application, admission, fees and mark entry procedures. However, there are a host of other academic and administrative functions that have been automated by us, with the aim to go paperless. Critical processes that take a lot of time when done manually, have been automated and give results at the click of a button.

Campus Active software has been designed by Computer Science Engineering Department, Institute of Engineering & Science IPS Academy, Indore. Campus Active is a web application, rooted in creativity and founded in technical expertise. Campus Active mobile application has been developed and can be freely downloaded from Google Play Store.

We specialize in customization of our software as per the requirement of an organization. An expert team of highly trusted employees will be working on the solution for our organization, thus, the confidentiality of our data will be protected.

Types of modules:

- **Institute Profile**:
- **Student Profile**

- **Academic Management System (AMS)**
- **Ward Monitoring System**
- **Feedback Management**
- **Online Exam Management**
- **Leave Management System (LMS)**
- **360 degree Feedback for Faculty**

File Description	Document
strategic Plan and deployment documents on the website	View Document

6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

Response:

The **Governing Body** of the institute consists of the following

- President of the Society - Chairman
- One Nominee of the All India Council for Technical Education
- An Industrialist/Technologist/Educationist from the region to be nominated by the Chairman.
- Nominee of the University
- Nominee of the Director of Technical Education/State Government
- Principal/Director of the concerned technical institution (as nominee of the society /Trust) - Member Secretary.
- Two to five members to be nominated by Management
- Two faculty members to be nominated from amongst the regular faculty.

Responsibilities

- To set and monitor the organization's mission, purpose, direction, priorities and strategies within the boundaries of the organizational policies and bye-laws.
- To approve the institution of new programs of study, leading to the award of Degrees and/ or Diplomas.
- To develop policies that allows the organization to serve well all its stakeholders.
- To monitor the organization's programs and services by influencing decisions and finances.
- To monitor development, the direction and growth of the institute and issue directions and recommendations.
- To perform such other functions and institute committees, as may be necessary and deemed fit for the proper development and fulfill the objectives of the institute.
- To approve appointments made by the Selection Committee.

Administrative setup:

The administrative rules and regulations covering all cadres of staff employed and the information relating to roles, powers and administration are available on the institute web site ies.ipsacademy.org. The rules and regulations cover general administration, recruitment of staff, Service conditions, duties, promotion policies, increments, awards and disciplinary actions etc.

- Awareness of staff recruitment is made utilizing Newspaper and electronic media and widely broadcasted to attract fresh talents and skills.
- At the time of joining and through periodic departmental meetings and notices, awareness of rules and procedures is being maintained.
- The institute website publishes information on fresh vacancies and appointments for new posts.
- The academic calendar and all activities (circular and beyond), and the same information is accessible on the institute web site.

The Advisory Board of the department consists of the following;

- Principal - Chairman
- Head of the concerned department.
- Two external members - Academicians
- Two external members - Industrialists
- Faculty members of the department

Responsibilities

- Principle Planning Body (five-year plan)
- Monitoring of Institute performance
- Monitors the attainment of Vision /Mission/PEOs/POs
- Monitors the attainment of Five-year plan
- Evaluation of Departmental Five-year plan
- Taking suggestions from all stake holders and its sub committees.
- To provide the developmental and application of quality benchmarks/ parameters for the various academic and administrative activities of the institution.
- To monitor promotion, implementation and continuous improvement of innovations in Curriculum, Co-curricular and Extra-curricular activities and facilities of the institution.
- To recommend the Governing Body on any matter, which it may consider necessary for the fulfillment of the objectives of the institute for consideration and approval.

File Description	Document
Link to Organogram of the Institution webpage	[View Document](#)
Paste link for additional information	[View Document](#)

6.2.3 Implementation of e-governance in areas of operation

    1. Administration
    2. Finance and Accounts
    3. Student Admission and Support
    4. Examination

Response: C. 2 of the above

File Description	Document
Screen shots of user interfaces	[View Document](#)
Details of implementation of e-governance in areas of operation, Administration etc	[View Document](#)

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

The institute has variety of welfare schemes for teaching as well as non-teaching staff as follows:

1)IPS Sakh Sahakari Santha Matyadit: The IPS Sakh Sahakari Santha Matyadit Started by the Society of IPS Academy for the welfare of all employees. The loan facilities are given to all employees working in the academy.

2) Uniform for Faculties: Uniforms are provided to all faculty members once in a year.

3) Maternity leave: 3 Months maternity leaves are provided to women employee after completing probation of 1 years.

4) Medical facility within the Institution: This facility is available for all staff and students.

- A Qualified Medical Practitioner is available every day between 9:30-5.00 p.m on the campus medical centre.
- He/She is being assisted by a qualified medical assistant, who is available throughout the college working hours.
- Number of ambulances within the Institution: **One**
- Facility in ambulances: First Aid

5) Deputation of faculty for research:

- Institute provides incentives of Rs. 8000/- per publication in journals indexed by web of science citation index (SCI)/Social science citation index /Arts and humanities citation index , and Rs. 3000/- per publication in peer reviewed journals national as an award to encourage the faculties in Research and development.

- The faculties are sponsored Rs. 15000/- maximum twice in a year for presenting papers in seminars, attending seminars, conferences, workshops, faculty development programs etc. The amount may exceed as per the requirement of the program in special cases.
- Institute provides incentives to the faculties persuing PhD as in terms of increment the salary.

6) Other Welfare Schemes:

The following are the service benefits and welfare measures extended to the staff of the College:

- The management grants maternity leave to the women employees, for a period of 90 days, 42 days with full pay and remaining without pay limited to the first two living children.
- Educational loan for higher studies
- Uniform for the faculties.
- Forty five percent concession in fees for wards of employees.
- Personal Loan
- In the event of death of an employee, while in service his/her dependant will be considered for employment on compassionate grounds, depending upon the merit of the case, limited to the cadre Junior Assistant, subject to eligibility of the individual concerned and the availability of vacant posts.

File Description	Document
Upload any additional information	[View Document](#)

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 15.29

6.3.2.1 **Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
34	27	31	21	30

File Description	Document
Upload any additional information	View Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 20.6

6.3.3.1 **Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
24	24	24	15	16

File Description	Document
Upload any additional information	View Document
Reports of Academic Staff College or similar centers	View Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 65.29

6.3.4.1 **Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
161	127	132	126	75

File Description	Document
Upload any additional information	[View Document](#)
IQAC report summary	[View Document](#)
Details of teachers attending professional development programmes during the last five years	[View Document](#)

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Response:

Appraisal System for Teaching Staff:

As per the appraisal norms of AICTE, New Delhi, the institute follows well-defined appraisal system for teaching staff i.e. the 360 degree feedback Score. The faculty has to provide the details with necessary documents as given in the 360 degree feedback.

360 degree score of faculty shall be determined on the basis of following factors:

- **Annexure I**

1. Teaching Process
2. Student's feedback
3. Departmental activities
4. Institute activity
5. Contribution to the society

- **Annexure II – Research and Academic Contribution**
- **Annexure III – Self Assessment of Participation in Research & Academic Contribution**
- **Annexure IV – Annual Confidential Report**

All faculty members are required to furnish the information (along with the documentary proof) and assess their score as per formats A to E appended as annexure – I. Further they are supposed to fill the information as per annexure – II & self assess their score as per instruction given. This may be useful to the faculty at the time of promotions. The faculty is also required to self assess the score on research & Academic contribution as per guidelines given in annexure-III. This will be used for evaluating 3600 feedback score by HOD. Annexure I, II & III (duly filled & self assessed) shall be forward to HOD, at the end of every academic session. The information for item F will be filled by the respective HoDs who in turn shall evaluate the total feedback score as per format given in annexure - IV.

The annual increment is released only when the minimum 3600 feedback score on a 10 point scale is 6.5.

Appraisal System for Non Teaching Staff:

The non-teaching staff's evaluation is based on the following criteria:

- Jobs Assigned/ Areas of individual responsibility
- Highlight outstanding achievement if any

The marks as per the rubrics also have to be filled up by the non-teaching staff themselves. Based on the online Appraisal form submitted by them, the HOD of the department verifies the same and forwarded to the Principal along with CR i.e. confidential report of each non-teaching staff.

File Description	Document
Upload any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Financial audits to be conducted on regular basis. Institution follows dual audit system where one audit is to be done by the internally appointed auditor and the other audit is to be performed by external audit agency.

Internal Audit: Management of the institution has appointed Chartered accountant Mr. Amit Choudhary as an internal auditor. Whatever submission are proposed by the internal auditor are to be incorporated in the accounting system of the institution. There is regular practice for periodical internal audit in the institution. Opinions and remarks made by internal auditor are taken into account for correction, if any.

External Audit: Institution has appointed an external auditor for further audit of the accounts, voucher and other documents. Associated external auditor is Chartered accountant Mr.Basant Jain & Company FRN NO 0051286 and membership no- 073966.

File Description	Document
Upload any additional information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	[View Document](#)

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

The institute has a well formulated financial policy which ensures effective and optimal utilization of finances for academic, administrative and development purpose which help ultimately in realizing the institute's vision and mission.

Institute has made the necessary provision in the books of account towards efficient use of available fund for each academic year. As per the guidelines of the management and Principal, report of sanctioned budget and actual expenditure are regularly maintained.

The Institute has a well defined procedure to monitor effective and efficient utilization of available financial resources for infrastructure development and academic processes. Every year, the Principal of the institute takes the approval for the sanctioned budget taking into consideration the requirement of every Department. Each Department prepares the budget based on the requirement such as equipment, computer as well as consumable required for next academic session. The budget is reviewed by the management and approved after necessary changes. As and when required, the institute makes a provision for advance additional fund. The Principal and the Head of Departments discuss the requirement and decide the priorities while allotting financial resources for various purposes; and also ensure optimum use of available financial resources. The Institute has standardized procedure for sanctioning of funds for various activities and also for settlement of advance and passing of bills for payment.

The Management has given complete support to Principal for organization of various co-curricular & extracurricular activities like technical events, sponsoring of faculty & staff for various skill development programs, providing financial support for attending conferences, workshops, pursuance of higher education etc. Financial support is also provided for various R&D activites of students and faculties.

The Institute has constituted a separate purchase Committee comprising of Management representative, Principal & college concerned staff. The purchase procedure such as calling quotation, technical bid, preparing comparative statement, negotiation meetings are followed for effective and efficient use of available financial resources. The committee ensures that suitable equipment with right specification is procured at competitive and optimal prices.

Financial audits are conducted by a chartered accountant every financial year to verify the compliance with established processes.

File Description	Document
Upload any additional information	[View Document](#)

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

The establishment of Internal Quality Assurance Cell (IQAC) by the institution is for establishing long term quality standards. IQAC will be responsible to initiate, plan and supervise various activities that are necessary to increase the quality of the education imparted in the college. The general roles of IQAC are as follows:

- To ensure focus in institutional functioning towards quality enhancement.
- To develop a system for Improvement in the academic and administrative performance of the Institution.
- To inculcate quality culture in the institute.
- To enhance the integration amongst the various activities and suggest good practices.
- To enhance better internal communication.
- Improvement in digital education
- Improvement in students centic activities.

In IQAC meeting the main objective which is discussed and implemented is the process of making student industry ready. Awareness is created in students and are motivated for Internship, Entrepreneurship as well as for working on research projects.

1. Use and enrichment of ICT infrastructure

The IQAC encouraged the faculty members to adopt innovative techniques in Teaching. To make teaching effective, faculties are advised to use ICT modules and audio-visual aids and also encouraged to make power point presentations and make use of projectors to teach. The IQAC has advised the administration to enrich ICT infrastructure by purchasing advanced ICT tools. IQAC is also responsible for faculty training in the usage of teaching tools in multimedia and the evaluation of student feedback and effective counseling. Periodically IQAC has trained teachers and non- teaching staff to use ICT by arranging different workshop and trainings.

2. Outcome Based Education System (OBES):

The Institute clearly defines vision, mission, objectives, outcomes and strategies. The IQAC implements Outcome Based Education (OBE) based learning in all the programs by defining respective program objectives, program outcomes and program specific outcomes. All the courses in each program are defined with a set of course objectives and outcomes. Each faculty will prepare course file for each course which contains department vision, mission, course syllabus, individual time table, program objectives, program

outcomes, various mapping matrices, unit plan, lesson plan, course plan, unit wise material, direct and indirect assessments, student grading sheet, surveys/feedbacks collected from students and CO-PO attainment sheet. Each faculty takes responsibility as a mentor, counselor, facilitator, guide, assessor, evaluator, learner, and finally as a teacher in OBE system. The faculty, industry and alumni are actively involved in preparing program outcomes, program specific outcomes and course outcomes of all programs in the college. Orientation program for all the new students is conducted every year at the beginning of the academic year to educate about all course outcomes. At the beginning of the academic year all the faculty members will prepare the course files and laboratory manuals. IQAC emphasises in promoting the students as well as the teachers to help the rural people through various extension activities.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives   )

Response:

IQAC has played a very vital role in improving practices in teaching-learning process and methodologies. IQAC has suggested many reforms in teaching learning process so far.

However, a few of them are as below:

1. Promoting usage of ICT in teaching

2. Campus recruitment training to be provided to students

3. Conducting FDPs

4. Skill based training programs for faculties and students

5. Gap identification

6. Analysis of feedback collected

7. Organising expert lecture, industrial visits.

The institution reviews the teaching learning process through IQAC committee members.

Example-1 IQAC has a well developed process quality benchmarks of academic and administrative activities. It is because of the initiative and guidance of IQAC that all eligible UG Program of the institute got accreditated by National Board of Accreditation (NBA), New Delhi and paved us the way for autonomous status and encouraged us to apply for NAAC Accreditation.

As all the eligible departments are NBA Accreditated, so Outcome Based Education is strictly followed. The IQAC implements Outcome Based Education (OBE) based learning in all the programs by defining respective program objectives, program outcomes and program specific outcomes. All the courses in each program are defined with a set of course objectives and outcomes.

Example-2 Two Mid-term tests are conducted twice in a semester. Reports of analysis of results of Mid-term tests are forwarded to the IQAC. The IQAC discusses on result analysis suggests corrective measures to be initiated for improvement. The students with poor performance in the Mid-term tests are asked to attend remedial class.

File Description	Document
Upload any additional information	[View Document](#)

6.5.3 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
2. **Collaborative quality intitiatives with other institution(s)**
3. **Participation in NIRF**
4. **any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

Response: C. 2 of the above

File Description	Document
Upload e-copies of the accreditations and certifications	[View Document](#)
Upload details of Quality assurance initiatives of the institution	[View Document](#)
Upload any additional information	[View Document](#)

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

Response:

- **CCTV Cameras**: Institute has installed 113 HD DVR, 16 Anolog DVR and 35 IP CCTV Cameras at different locations such as Institute Entrance, Library, Workshop, Student Section, Principal's Office, Parking Canteen and all corridors.

- **Women Grievance Cell**: In order to maintain safety and security to the girls and women, a cell has been constituted for redressal of grievances. Our women grievance cell stays alert all the time to prevent any sexual abuse towards the students and female workers. Security guards are available for twenty-four hours. Nearby police station contact numbers and toll free help line numbers are displayed on notice boards at strategic locations. Pick up and drop facility is available for girl students at the time of late night events held in the institute.

- **Counseling**:- The institute has established Students Counseling Cell for the overall development of the students through interaction. Mentor : Mentee ratio is 1:15. Students are allocated to specific mentor for entire semester. Mentors has two primary functions for the mentee.
  1. The career-related function establishes the mentor as a coach who provides advice to enhance the mentee's professional performance and development.
  2. The psychosocial function establishes the mentor as a role model and support system for the mentee.

Both functions provide explicit and implicit lessons related to professional development as well as general work–life balance.

- **Common Room**: -
  1. Girls common room is available with essential facilities like first aid box, wash basin, Sanitary Napkin Wending Machine, Incinerator Machine etc.
  2. There is a hall as a Student Section. In the student section, there is provision for indoor games like Table Tanis, Chess, and Carom etc. Newspaper and Journals on Hindi and English are also placed in the Student Section for the use of the students.

- **Day care center for young children:-**

The Institute administration understands that child care is not just the responsibility of women and families but also of institutions. In the public sphere like the College where staffs, especially women who are also parents are constrained by the simultaneous responsibilities of childcare and work. Hence the College has provided facility for the Day Care Centre (DCC) on the campus so that all the staff can access its services. Timings are set keeping in mind the special needs of employee parents and hence the DCC is open from 9 am to 5 pm.

- **Any other relevant information:-**

1. **Rangoli and Poster Competition on "Save Girl Child"**

1. **Women Entrepreneurship Development Program:** Our institute is actively undertaking promotion of women entrepreneurs through aware them about various schemes, incentives and promotional measures. IPS academy, IES organizes every year **Women Entrepreneurship Development Program** which is a development program under the project of **NSTEDB, Department of Science and Technology (DST), Govt. of India, New Delhi** and Sponsored by **Entrepreneurship Development Institute of India (EDII), Ahmadabad.**

1. **Girls Hostel facility:**

Hostels	No. of Hostels	No. of rooms	No. of students accommodated
Hostel for Girls	01	125	252

File Description	Document
Link for annual gender sensitization action plan	View Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. **Solar energy**
2. **Biogas plant**
3. **Wheeling to the Grid**

4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

Response: C. 2 of the above

File Description	Document
Geotagged Photographs	[View Document](#)
Any other relevant information	[View Document](#)

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- **Solid waste management**
- **Liquid waste management**
- **Biomedical waste management**
- **E-waste management**
- **Waste recycling system**
- **Hazardous chemicals and radioactive waste management**

Response:

a) Solid waste:

- Waste plastic & polythene:

The institute has plastic   recycling unit. It agglomerates plastic waste into useful product. It is operational since 2011-12.

- Organic/ biodegradable waste:

The Biodegradable waste is composted in institute campus using Organic Waste Composter (OWC) with capacity of 8-10 kg waste per cycle. One cycle completion time is around 15 minutes. The composting can be done in pits, pots, drums etc. The Manure or Compost is used in campus for plantation and gardening purpose.

- Sanitary waste:

The institute has installed incineration unit for pyrolysis of sanitary waste.

- Non-biodegradable waste :

It includes cans, bottles, metal or rubber objects. It is sold to scrap collector regularly.

b) Waste water:

The institute has its own effluent treatment plant installed by Sintex Package type Waste Water System operating since 2011-12. It consist of three zones:

Solid Separation Zone : First stage transforms influent solids to settled solids while allowing scum to float. The settled sludge is stabilized by anaerobic digestion.

Aeration Zone: Second stage is aerobic zone with plastic media inside the tank which increases surface area and retain micro-organism long enough to digest the organic Waste. Air is provided through blowers and more contacting time with the slime on the plastic media, occurred, more efficient the digestion process would be.

Final Sedimentation Zone: Final stage involves the sedimentation where organic wastes are settled in the sedimentation zone. The settled waste in the bottom of the tank is pumped back to the Solid Separation zone as a return sludge having active biomass (MLSS) to increase the efficiency of the system.

The capacity of treatment plant is 200 KL per day and treated water is used in plantation and watering buildings.

c) E-Waste

E-waste is collected & sells out to junk dealers. There are some entrepreneurs who extract material from them. Most junk dealers are familiar with the network of recyclers.

File Description	Document
Any other relevant information	View Document
Link for Geotagged photographs of the facilities	View Document
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	View Document

7.1.4 Water conservation facilities available in the Institution:

1. **Rain water harvesting**
2. **Borewell /Open well recharge**
3. **Construction of tanks and bunds**
4. **Waste water recycling**
5. **Maintenance of water bodies and distribution system in the campus**

Response: D.1 of the above

File Description	Document
Any other relevant information	[View Document](#)

7.1.5 Green campus initiatives include:

1. **Restricted entry of automobiles**
2. **Use of Bicycles/ Battery powered vehicles**
3. **Pedestrian Friendly pathways**
4. **Ban on use of Plastic**
5. **landscaping with trees and plants**

Response: C. 2 of the above

File Description	Document
Geotagged photos / videos of the facilities	[View Document](#)
Any other relevant documents	[View Document](#)

7.1.6 Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:

1. **Green audit**
2. **Energy audit**
3. **Environment audit**
4. **Clean and green campus recognitions / awards**
5. **Beyond the campus environmental promotion activities**

Response: B. 3 of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	[View Document](#)
Certification by the auditing agency	[View Document](#)

7.1.7 The Institution has disabled-friendly, barrier free environment

1. **Built environment with ramps/lifts for easy access to classrooms.**
2. **Disabled-friendly washrooms**
3. **Signage including tactile path, lights, display boards and signposts**
4. **Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment**
5. **Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

Response: D.1 of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

- **One Student One Tree Scheme**

As per the initiative, each student in IPSA IES Indore has planted one tree in Indore. In order to give a start to the scheme, Academy planted trees along with students in Indore. The institute has been recognized by AICTE, New Delhi and has been certified for the "**One Student One Tree Scheme"**

- **Voter's Awareness Rally**

College students take part in a rally to create awareness of importance of voting organized by IPS Academy, Indore. Inaugurating the rally, by president of IPS Academy, Ar. Achal Choudhary, appeal to all the citizens to insure the voting in upcoming election.

- **Joy of Giving**

IPS Academy, Institute of Engineering & Science organizes a social activity **"JOY OF GIVING** every year in which Student, Faculty and Staff members donate any useful stuff like (Cloths, Toys, Food items, Stationary etc.). So we provides those all items to needy people.

- **Eye Check-up Camp**

IPS Academy, Institute of Engineering & Science organizes a social activity with Lawrence and Mayo Opthalmic optician for eye checkup of faculty and staff members every year.

- **World Computer Literacy Day**

IPS Academy, Institute of Engineering & Science celebrate the World Computer Literacy Day in which faculties of institute gives training to the students of government schools every year.

- **Robotics**

IPS Academy, Institute of Engineering & Science organizes robotics workshop at different schools to aware school students about new technologies in robotics.

- **Traffic Awareness**

IPS Academy and Dainik Bhaskar has organized traffic management plan to request citizens for following traffic rule.

- **Distribution of Sanitizer**

In the view of COVID-19, Chemical Department of the institute made 500 kg sanitizers and distributed in 2500 bottles to the employees of the institute as a preventive measure in spreading the infection. After the college has reopened, the sanitizing facility has been installed at strategic locations in the institution and all departments

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	[View Document](#)
Link for any other relevant information	[View Document](#)

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

The Institute takes pride in the fact that apart from preparing a sound academic foundation of the student community; the Institute constantly works upon to develop them as better citizens of the country. In this regard, apart from imparting professional technical education, inculcates a feeling of oneness among the student community through various practices and programs. Various faculties have always been in the practice of organizing activities that not only initiate but also motivate the students to adopt various practices that promote the "Unity in Diversity" of our motherland. The Institute ensures that the students participate very enthusiastically in all such activities. The Institute has strived forward with great effort to increase the level of awareness and appropriate practices amongst the students with regard to the following areas:

1. National Identities and Symbols: The Institute has always taken various direct and indirect steps which promotes the awareness about various National Identities like Dr. Sarvapalli Radhakrishnan etc. and Symbols. The Institute celebrates the Independence Day & Republic Day with great pomp and vigor.

2. Constitutional Obligations, Duites and Responsibilities of citizens: The Institute has also organized student centric activities like paper, poster, rangoli, face painting & essay competition displays on themes like Women Empowerment, Women's Safety, Unity in Diversity etc. at annual Synergy event etc which have always received huge participation from the students and promoted their awareness about various aspects of Indian citizenship. Street Plays are organized by the students on various social awareness themes like AIDS Awareness, Women Security, etc. by the group of students called SARFROSH.

The courses on Professional Ethics & Human Values are imposed on I year students during Induction Programs, are also responsible for sensitizing the students and employees of the Institute.

File Description	Document
Link for any other relevant information	[View Document](#)

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

1. **The Code of Conduct is displayed on the website**
2. **There is a committee to monitor adherence to the Code of Conduct**
3. **Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
4. **Annual awareness programmes on Code of Conduct are organized**

Response: D. 1 of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	[View Document](#)
Code of ethics policy document	[View Document](#)

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

Republic Day and Independence Day – Every year institute celebrates Republic Day and Independence Day with great pomp where all staff and students from Academy and School gather at one campus along with the Office Bearers. The program starts with Flag Hosting at the hands of President of IPS Academy followed by National Anthem. March Past, Patriotic songs, and various acts and skills are presented to the gathering by the school students.

Teachers Day – Since 1962 the day commemorates the birthday of Dr Sarvepalli Radhakhrishnan, a great teacher and a staunch believer of education, known for his contribution towards the education system in India. The Institute celebrates the Teacher's Day on September 05. Various cultural program organized by students of various departments.

Engineers Day – 15th September is celebrated as Engineers Day in honour of Bharat Ratna Awardee Mokshagundam Visvesvaraya, an Eminent Civil Engineer. On the occasion of Engineer's Day, Expert Lectures are being organized. Also following Events are organized by the institute like:

World Ozone Day – World Ozone Day is observed on *16 September* every year to spread awareness amongst the students and faculties about the depletion of Ozone Layer and search possible solutions to

preserve it.

World Natural Disaster Reduction Day – Held every **13 October**, the *day* celebrates how people and communities around the *world* are reducing their exposure to *disasters* and raising awareness about the importance of reining in the risks that they face.

National Safety Day – Every year, on 4 March to commemorate the foundation of the **National Safety** Council to raise awareness about the **safety** measures to prevent mishaps and accidents due to lack of awareness.

Women's Day – The International **Women's Day** date was moved to **March 8** in 1913. ... The **day** aimed to help nations worldwide eliminate discrimination against **women**. On this occasion every year, women who have made extraordinary achievements in their lives are invited in the institute for sharing their journey with female faculties.

National Fire Service Day – The Department of Fire Technology and Safety Engineering organizes Expert lectures for both students and faculties on the occasion of National Fire Safety Day on April 14, every year.

National Safety Day – On March 4, various Fire and Safety Activities are organized by the Department of Fire Technology and Safety Engineering like, Fire Drill, Fire Fighting etc by the students under the guidance of the faculties of the department.

Energy Conversation Day – Every year, on December 14, the department of Electrical and Electronics Engineering organizes expert lectures to spread the awareness about energy conservation amongst the students and the faculties.

World Telecom Day – On 17 May, the Electronics and Telecommunication Department organizes expert lectures for the faculties and students every year.

Computer Literacy Day – Held every year on 2 December, the Computer Science and Engineering Department organizes Online spoken tutorial classes for the School Students for spreading the awareness about computer literacy.

Hindi Diwas – Various activities like debate, essay and recitation competitions are organized on Hindi Diwas

File Description	Document
Link for any other relevant information	[View Document](#)

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Response:

BEST PRACTICE-1

Title of the Practice :Campus active – An online Academic Management System

Objectives of the Practice: Campus Active is a next generation Management Information System (MIS) that is transparent, flexible, paperless, and easy to use and has been designed & developed to deliver real conceivable benefits to institutes. Hence Campus Active plays an important role in making the paperless working as desired for fulfillment of all academic activities such as attendance, Sessional Marks, Mid-Sem Marks, etc.

The Context: Initially, when campus active was introduced, it was very difficult for the faculties to get acquainted with the system because of the basic fact that the entire system was dragged from offline system to online system. Also, Due to the frequent changes in the university schemes, very often modifications had to be made in the CMS.

The Practice

Institute Profile:

- Number of Program.
- Number of Streams.
- Sanction Intake stream wise.
- Academic Calendar Creation.
- Defining Compulsory and Elective Options.
- Creation of Templates for each Program-Stream-Class-Sem-Batch.
- Entry of Subjects against each Template.

Student Profile:

- Student Personal Information (Name, DOB, Father's Name etc).
- Student Academic Information (Computer Code, Enrollment No., Practical Group etc).
- Registration of students as per their Program-Stream-Class-Semester – Batch.
- Student login feature enables to check his/her attendance record (daily as well as in total percentage format), practical grades, MST marks and assignment grades given to him/her for final sessional evaluation.

Academic Management System (AMS):

- Academic Management System performs all types of academic activities like online maintenance of attendance, MST marks, Assignments and practical grades etc.
- AMS includes Principal login that enables to monitor all records of all the departments.
- HOD login provide facility to register students, create semester id, class coordinator assignment and check all the activities of the department related to each and every faculty and student.
- HOD defines Program Outcomes (POs), Program Educational Objectives (PEOs) of their respective department.
- Class Coordinator login provide facility to assign subject coordinators with subject details and to provide the facility to monitor the daily attendance record.
- Faculty login provides the facility to take attendance online via desktop and online/offline via mobile.
- Subject Coordinator defines Course Outcomes (COs) and Blooms taxonomy level of their respective subjects.
- Automatic generation of sessional marks in university formats.
- AMS also maintains database that can generate back up sheets for 25+ schemes of different subjects including CBCS system.

Ward Monitoring System:

- Parent login feature creates a great impact on student's performance as parents can monitor their Ward's Attendance.
- Parent can check the ward progress (MST Marks, Practical Grade, Assignment Grade etc.).

Feedback Management:

- Various Types of Feedback creation for workshop/conference etc.
- Feedback taken from Students on Course Content.
- Course Content, Institute Feedback, etc.
- Input of different questions for each feedback type.
- Answer options for each question can be given, by multiple choices.
- Provision exists for entering the Feedback Schedule.
- Actual Feedback taken against a CODE generated for each person giving, to maintain secrecy and freedom.
- Web-based so any number of people can give feedback together.
- Feedback Analysis.

Online Exam Management:

- Defining Paper Template – no of Questions, Unit-wise, Topic-wise.
- Auto Timer Facility.
- Marks per Questions and Negative marking.
- Random allotment of terminals.
- Random generation of Questions and answers.
- Provision of pictures, images, etc. in Questions and Answers.
- Immediate result calculation on submission of paper.
- Report generation of individual/overall student.

Leave Management System (LMS):

- Employee registration with categorization of Teaching and Non-teaching staff etc.
- Defining employee code, department, designation, branch along with personal details.
- Defining Leave Types Casual leave, Earn Leave, Duty leave, Medical Leave, Leave without pay etc.
- Application of Leave from staff.
- Staff must assign their work to substitute staff at the time of applying leave.
- Recommendation/Approval of leave by Head of Department.
- Final Approval from Principal/Director.
- Category wise leave report generation.
- Auto updation in Leave Balance.
- Notification of staff assignment, Leave sanction/ rejection by SMS.
- Track leaves status.
- Generation of leave history, year/month/week/day wise.
- Leave report can be printed in customize form.

Outcome Based Education System (OBES):

As per National Board of Accreditation's (NBA) requirements, OBES has introduced a new process, parameters and criteria with the best orientation to assess the outcomes of the programme based on defined rubrics.

- CO-PO mapping define by respective subject coordinator.
- Auto generation of direct Assessment of COs through internal Assessment (MST, Assignment/Practical Grades etc).
- Auto generation of indirect Assessment of COs through course exit survey.

- Auto generation of Actual Attainment of CO through internal assessment.
- Auto generation of Evaluation of each PO through CO.
- Auto generation of direct assessment of CO through external assessment (University Result).
- Auto generation of final attainment of PO through student exit survey, internal and external assessment.
- Auto generation of final attainment of PEO through student performance, placement and higher studies, Alumni Survey, Employer Survey.

Faculty Academic Performance Index (FAPI):

- Teaching Learning And Evaluation Related Activities.
- Academic Feedback Appraisal form.
- Co-Curricular, Extension, Professional Development Related Activities.
- Research And Academic Contributions.
- Combined Assessments with calculation of scores for decision on Annual Increments and/or Promotions to higher cadre.

Evidence of SuccessCMS has helped maintaining the above mentioned modules in online format. Faculties can update the data anywhere in the campus. It has made the campus fully automated, transparent, flexible, paperless, and easy to use and has been designed & developed to deliver real conceivable benefits to institutes.

Problems Encountered and Resources Required

1. Training the faculties about the campus active.
2. Since the Campus active can be accessed by the parents so , it was little cumbersome to make them aware of the system.
3. Managing of Schemes- With the frequent changes in the scheme by the university, it was very difficult to manage so many different schemes at the same time.

BEST PRACTICE-2

Title of the Practice : **Waste Management**

Objectives of the Practice

The institute is working on concept of clean energy and zero waste policy. All the waste is get collected in waste management zone, where plastic waste is sent to agglomeration plant. The biodegradable waste is sent to composting unit. The institute has in-house sewage treatment plant for grey water treatment. Also there are automatic taps & toilet flushes in washrooms to reduce water wastage. There is rain water

harvesting facility. The institute is working on green building concept.

The Context

One of the challenging issues in waste management is the segregation of waste at source. In institute premises there are separate dust bins for paper waste, plastic waste, biodegradable waste, glass and dust. Students, faculties & staff are segregating the waste at source by putting waste in different bins.

The Practice

The institute is working on concept of clean energy and zero waste policy. The institute is planning to replace all the light by LED in next two year. The institute has two solar system of 64 KW for generating of electricity and hostels are equipped with solar heating system. The construction and architecture is such that all rooms have proper sunlight and ventilation. The institute has in-house sewage treatment plant for grey water treatment operating since 2011-12. Also there are automatic taps & toilet flushes in washrooms to reduce water wastage. There is rain water harvesting facility. The institute is planning to increase its green area in near future. The institute has installed incineration unit for pyrolysis of sanitary waste. The Biodegradable waste is composted. The composting can be done in pits, pots, drums etc. The non-biodegradable waste includes cans, bottles, metals or rubber objects. It is sold to junk dealers. In educational institute paper waste is predominant; it is segregated in separate bins, and sold to junk dealers. E-waste is collected & sells out to junk dealers.

Evidence of Success

The compost produced from kitchen waste is used in gardening. The treated water from sewage treatment plant is used for gardening. In agglomeration plant small agglomerate granules are formed from plastic waste and are sold as raw material for various plastic industries.

Problems Encountered and Resources

- Collection and segregation of waste
- High cost associated to waste management
- The lack of understanding over a diversity of factors that affect the different stages of waste management.
- The cafeteria generates a lot of waste both biodegradable and non- biodegradable types. Their cooperation is necessary in terms of proper segregation & disposal. The use of disposal container should be limited.

Efforts should be made to **reuse** non biodegradable non recyclable items.

File Description	Document
Link for Best practices in the Institutional web site	<u>View Document</u>

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

IPS Academy, Institute of Engineering & Science established in 1999 is one of the premier self financing institutes imparting quality technical education with the sole motto of "*Knowledge, Skill & Values*".

The unique feature of the institute is gradually shifting towards "*Self Reliant*" (Atma-Nirbhar) institute which is evident from various initiatives & subsequent achievements as under:

- Eco-friendly Environment & Waste Management
- Manufacturing of Hand Sanitizers during COVID-19
- Comprehensive Fire Safety arrangements & associated initiatives
- Innovations in Health Care
- Development of ERP Software

1. Eco-friendly Environment & Waste Management:-

Our institute is located in the heart of Indore city which was adjudged India's cleanest city for the fourth time in a row by Government of India's Cleanliness Survey. As a token of our contribution towards the mission of maintaining the rank for cleanliness, we collect the waste in a segregated manner. The waste is collected under the categories viz. Biodegradable, glass, paper, polythene & other organic waste. There are various treatment plants for the treatment of waste i.e. agglomeration plant to treat & recycle polythene, paper waste, etc., sewage treatment, organic waste compositor & incineration unit.

The Weather Station is installed in the institute to monitor & record the weather parameters, such as, temperature, wind velocity, rainfall, humidity etc.

The monthly Quality control analysis for drinking water is carried out which involves the measurement of parameters like pH value, TS, TDS, TSS, COD, DO, BOD, Alkalinity, Colour / Odour to assess & improve the quality of water, if required. It is worth noting that the Institute was awarded by adopted in the field of Energy Conservation in the year 2019-2020. In addition the institute received appreciation by AICTE New Delhi for its significant contributions in "*One Student One Tree*" initiative in 2019.

2. To face the challenges of COVID 19, the institute manufactured 450 Kg (till date) hand sanitizers which are satisfying all safety norms. The sanitizers were/are being distributed to all the faculty /staff members & also distributed to Indore police service, Indore Municipal Corporation & nearby society. The contribution of the institute towards COVID-19 was a remarkable one & won the first prize under AICTE conducted **" *Utkrisht Sansthan Vishwakarma Award 2020 (USVA)***" for performance during COVID-19 under the

theme "***India fights Corona***". The institute has achieved First position for significant contribution in the following two categories:

Category 1-"How innovatively you are conducting classes for students of your institution during lockdown period".

Category 2 - "Details of other support provided" to migrants.

3. Comprehensive fire safety arrangements & provisions:-

Institute has made its own comprehensive fire safety arrangement, such as, fire extinguishers, wet risers with hose reel system, safety sign boards & safe assembly points at easily assessable locations aimed to prevent fire incidences in the institute premises. Standard mock drill set out for the purpose of achieving deployment of key personnel with their specific duties for an emergency. This mock drill helps and prepares the institute occupants in preventing fatalities, injuries and reduces damage to the institute buildings in unforeseen emergency situations. The institute focuses on developing technology /equipments to face the challenges related to fire & safety viz. Fire fighting Bike, Fire ball launcher, etc. to reach the fire in narrow places.

4. Innovations in Health Care :-

The institute has a well established Micro Fluidics laboratory for research related to health care and collaborations with international and national institutes, as per details given below:

i. India-Japan Collaboration

Title: Development of a biocompatible vehicle for sustained delivery of lactobacillus spores as a treatment modalities for Bacterial Vaginosis

ii. India-Srilanka Collaboration

Title: Effect of Bio-fertilizer on different Rhizosphere microbes

The institute has also submitted R&D projects proposals to various funding agencies listed below:

i. India-Portugal Collaboration

Title: NFs Micro Systems: Development of advanced micro fluidic systems to assess the thermal properties of innovative Nano-Fluids (NFs).

ii. COVID-19 Project

Title: Deciphering the secret language between virus – microbes – blood cells in a micro-channel: Developing a rapid diagnostic kit for COVID-19

iii. Oral Cancer Project

Title: Micro manipulation of bio-fouling and cleaning characteristic patterns of microbial flora in saliva in

a confined flow: A non-invasive diagnosis of Oral cancer

5. Developing ERP Software:-

The faculty & the students of the institute have developed ERP software as one of the best practices which takes care of academic and administrative data, such as, attendance of the students, marks obtained by students, mid semester examinations, student feedback on teaching learning process and facilities at the institute & departmental level, leave record of the faculty & 3600 feedback and attainment of COs/ POs/PSOs etc.

It is opined that the above contributions, howsoever small, are taking us one step closer towards "Self Reliance" and have a distinctive feature from other institutions. Hopefully, the continued efforts in this direction by other institutes as well shall take us closer towards the mission of country i.e towards "*Self Reliant*" India (Atma-Nirbhar-Bharat).

File Description	Document
Link for appropriate web in the Institutional website	[View Document](#)
Link for any other relevant information	[View Document](#)

5. CONCLUSION

Additional Information :

Institute Achievements:

1. Approved under Sec 2(f) of UGC Act 2014
2. Approved by AICTE, New Delhi
3. Self –financing institute affiliated to RGPV, Bhopal
4. A UGC Autonomous Institute, with effect from the current academic session 2020-2021
5. Offering 10 UG & 8 PG Programs
6. UG Programs accredited by NBA
7. Ranked 32 among the Top 100 Private Engineering Institute by Times of India (2020)
8. Top Performing Remote Centre for The National Mission on Education through Information and Communication Technology (NMEICT) with *** rating
9. Top Performing Remote Centre Spoken Tutorial with **** rating given by IIT, Mumbai.
10. Active local chapter of NPTEL
11. No. of MOUs signed: 12 with Industries and International Institutes of Repute for collaborative research.
12. Amongst Top 5 Performing Institution Innovation Council (IIC) in Central India Zone by MHRD in the year 2019-20.
13. Organized International Conference in Feb 2019

Awards, Recognition and Extension Activities:

1. AICTE conducted *"Utkrisht Sansthan Vishwakarma Award 2020 (USVA)"* for performance during COVID-19 under the theme *"India fights Corona"*. The institute has achieved First position for significant contribution in the following two categories:

Category 1-"How innovatively you are conducting classes for students of your institution during lockdown period".

Category 2 - "Details of other support provided" to migrants.

1. The Institute was awarded by RGPV for Best Green Practices adopted in the field of Energy Conservation in the year 2019-2020.
2. Appreciation by AICTE New Delhi for significant contributions in "One Student One Tree" initiative in 2019.
3. Post Doctoral Fellowships for 3 faculty members.
4. MPCST MP Young Scientist Awards & Fellowship for 10 faculty members.
5. International Young Scientist Award for 3 faculty members.
6. FIST Award (2017) for Fire and Safety Engineering by Fire and Safety Association of India (FSAI).

Future Plans

1. NBA Accreditation of PG programs.

2. Recognition to the institute as Research Centre, leading to PhD degree.

3. To offer UG/PG programs as per global needs.

4. To inculcate the spirit of entrepreneurship in students to venture into startups.

Concluding Remarks :

The information furnished in SSR leads to the following conclusions:

1. The institute has a well established adequate infrastructure to conduct UG/ PG programs. The effective implementation of the curriculum is ensured by supplementing the classroom teaching with expert lectures, industry visits/internships, e-learning and MOOCs online courses. In addition, it has state of art laboratories, such as, Heavy Structure lab, Micro-fluidics lab, etc. to conduct research programs leading to Ph. D degree. To strengthen the R & D activities, number of functional MOUs has been signed with National/ International universities of repute. The application for recognition of the institute as a research center is pending with our affiliating university.

2. To inculcate the spirit of entrepreneurship and innovation, the institute established Innovation & Entrepreneurship Development (IEDC) Cell with the support of NSTDB & MSME, GoI India.

3. The quality element in teaching learning process is ensured through accreditation processes. The UG programs have been already accredited by NBA, New Delhi. The institute has taken corrective actions to incorporate suggestions made by NBA team for improvement in teaching learning process. In addition, the accreditation through NAAC is being attempted by the institute so that the suggestions for improvement made by the NAAC peer team & subsequent corrective actions required by the institute shall further enhance the quality of teaching learning process.

4. The institute has meticulously implemented the reform policies, such as 3600 feedback, Examination reform policy, as directed by the statutory bodies AICTE/ UGC.

5. The faculty & the students of the institute have developed ERP software as one of the best practices which takes care of academic and administrative data, such as, attendance/marks obtained by students, student feedback on teaching learning process and facilities at the institute & departmental level, leave record of the faculty & 3600 feedback and attainment of COs/ POs.

6. The institute is fully aware of its contribution towards society which is evident from Rural outreach program, environmental competitions, awareness programs, Blood donation camps, waste management etc. The contribution of the institute towards Covid-19 was a remarkable & won first prize from AICTE.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
1.1.3	**Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years** 1. **Academic council/BoS of Affiliating university** 2. **Setting of question papers for UG/PG programs** 3. **Design and Development of Curriculum for Add on/ certificate/ Diploma Courses** 4. **Assessment /evaluation process of the affiliating University** Answer before DVV Verification : B. Any 3 of the above Answer After DVV Verification: C. Any 2 of the above
1.2.2	**Number of Add on /Certificate programs offered during the last five years** 1.2.2.1. **How many Add on /Certificate programs are offered within the last 5 years.** Answer before DVV Verification: <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>8</td><td>14</td><td>10</td><td>10</td><td>8</td></tr></table> Answer After DVV Verification : <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>5</td><td>11</td><td>7</td><td>8</td><td>4</td></tr></table> Remark : CAD Training, , STAAD PRO Training, Java Programming may be part of University Curriculum and therefore not considered.
1.2.3	**Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years** 1.2.3.1. **Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years** Answer before DVV Verification: <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>347</td><td>427</td><td>512</td><td>645</td><td>457</td></tr></table> Answer After DVV Verification : <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>262</td><td>328</td><td>325</td><td>426</td><td>171</td></tr></table>

	Remark : Revised as pet the Number of programs considered in Metric 1.2.3
1.3.2	**Average percentage of courses that include experiential learning through project work/field work/internship during last five years** 1.3.2.1. **Number of courses that include experiential learning through project work/field work/internship year-wise during last five years** Answer before DVV Verification: <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>70</td><td>50</td><td>36</td><td>35</td><td>30</td></tr></table> Answer After DVV Verification : <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>16</td><td>18</td><td>14</td><td>16</td><td>13</td></tr></table>
1.4.1	*Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders* *1) Students* *2)Teachers* *3)Employers* *4)Alumni* Answer before DVV Verification : A. All of the above Answer After DVV Verification: A. All of the above
1.4.2	**Feedback process of the Institution may be classified as follows:** **Options:** 1. **Feedback collected, analysed and action taken and feedback available on website** 2. **Feedback collected, analysed and action has been taken** 3. **Feedback collected and analysed** 4. **Feedback collected** 5. **Feedback not collected** Answer before DVV Verification : A. Feedback collected, analysed and action taken and feedback available on website Answer After DVV Verification: C. Feedback collected and analysed Remark : HEI has not provided any supporting documents interacting with affiliating University regarding the feedback on curriculum. Hence the option C- Feedback collected, analysed considered.
2.1.2	**Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.**

as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

2.1.2.1. Number of actual students admitted from the reserved categories year-wise during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
283	323	265	308	376

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
201	230	188	222	256

Remark : Number of students admitted cannot be more than the earmarked.

2.4.3	**Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)** 2.4.3.1. **Total experience of full-time teachers** Answer before DVV Verification : 1452.3 Answer after DVV Verification: 1021.2 Remark : As per metric only experience in the Institution considered. Experience from the year of appointment considered

3.1.1	**Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)** 3.1.1.1. **Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)** Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
6.89	11.6	12.86	4.99	5

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
6.89	0.00	0.00	0.00	0.00

Remark : The amount sanctioned by AICTE under MODROB is not for research, hence cannot be considered. The amount received from DST under NSTEDB under DB for IEDC students projects is not for research. Hence, they cannot be considered. Only one project from DST (International Bilateral Co-operation Division) can be considered I. e., only for 2019-20- 6.89 lakhs can be considered.

3.1.3	**Percentage of departments having Research projects funded by government and non government agencies during the last five years**

3.1.3.1. **Number of departments having Research projects funded by government and non-government agencies during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1	4	4	5	4

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
1	0	0	0	0

3.1.3.2. **Number of departments offering academic programes**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
7	7	7	7	7

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
7	7	7	7	7

Remark : Only one department of 2019-20 considered

3.3.2	**Number of research papers per teachers in the Journals notified on UGC website during the last five years**

3.3.2.1. **Number of research papers in the Journals notified on UGC website during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
31	26	26	16	11

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
03	06	07	01	01

Remark : As per the HEI statement in the response dialog box and the data provided with the Metric during clarification.

3.3.3	**Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**

3.3.3.1. **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
3	87	4	9	4

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
01	03	04	04	02

Remark : As per the HEI statement in the response dialog box and the data provided with the Metric. Only entries with valid ISBN (after Verification) considered.

3.4.2	**Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years**

3.4.2.1. **Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
6	2	0	0	0

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

3.4.3	**Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the last five years (including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)**

3.4.3.1. **Number of extension and outreached Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1	4	3	6	4

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
1	4	2	4	4

Remark : Activities such as Traffic Awareness Camp, World Yoga Day Celebrated, Hariyali mahotsav, Digital India awareness etc., excluded

3.4.4	**Average percentage of students participating in extension activities at 3.4.3. above during last five years** 3.4.4.1. **Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years** Answer before DVV Verification: table1 Answer After DVV Verification : table2 Remark : Revised on the basis of activities from Metric 3.4.2
3.5.1	**Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year** 3.5.1.1. **Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years** Answer before DVV Verification: table3 Answer After DVV Verification : table4 Remark : HEI has not provided any valid collaborative documents between the heads of two Institutions. Intern-ship certificates letters, in plant training certificates, on job training certificates, visits, permission letters correspondence, MODROB letter, placement letters etc., cannot be considered as collaboration documents.

table1:

2019-20	2018-19	2017-18	2016-17	2015-16
840	270	68	193	99

table2:

2019-20	2018-19	2017-18	2016-17	2015-16
00	270	53	149	99

table3:

2019-20	2018-19	2017-18	2016-17	2015-16
42	51	39	25	14

table4:

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

3.5.2	**Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years**

3.5.2.1. Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
3	9	0	2	0

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
3	2	0	0	0

4.1.4	**Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)**

4.1.4.1. Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
21.54607	470.53618	609.58406 5	386.07334	408.00218

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
99.23	571.41	692.17	455.16	493.8

4.2.2	**The institution has subscription for the following e-resources**

1. **e-journals**
2. **e-ShodhSindhu**
3. **Shodhganga Membership**
4. **e-books**
5. **Databases**
6. **Remote access to e-resources**

Answer before DVV Verification : A. Any 4 or more of the above
Answer After DVV Verification: A. Any 4 or more of the above

4.2.3	**Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)**

4.2.3.1. Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
20.727	23.620	21.159	28.183	22.971

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

Remark : The HEI was requested to provide the actual Statement of Income and Expenditure on the letterhead of the Chartered accountant clearly highlighting the expense of the books and journals and duly signed by principal. The audited statement given as supporting documents along with the data template and the audited statement given during clarification does not contain Annual expenditure of purchase of books/e-books and subscription to journals/e- journals but is laboratory and Library expense. As per the data provided.

4.3.3	**Bandwidth of internet connection in the Institution** Answer before DVV Verification : A. ?50 MBPS Answer After DVV Verification: E. < 05 MBPS Remark : Bill provided by HEI is in name of INDOREEDUCATIONAND SERVICES SOCIETY-IPS ACADEMY.

4.4.1	**Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)**

4.4.1.1. **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
899.09993	858.97021	554.64907	593.12549	519.34466

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
13.2	13	7.5	11.5	10.9

Remark : As per the HEI statement in the response dialogue box and the data provided with the Metric during clarification. Page 6/17 of the attached document refers to Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities).

5.1.1	**Average percentage of students benefited by scholarships and freeships provided by the**

	Government during last five years 5.1.1.1. **Number of students benefited by scholarships and freeships provided by the Government year-wise during last five years** Answer before DVV Verification: {{TABLE1}} Answer After DVV Verification : {{TABLE2}}
5.1.3	**Capacity building and skills enhancement initiatives taken by the institution include the following** 1. **Soft skills** 2. **Language and communication skills** 3. **Life skills (Yoga, physical fitness, health and hygiene)** 4. **ICT/computing skills** Answer before DVV Verification : A. All of the above Answer After DVV Verification: C. 2 of the above Remark : Soft skill and Language and communications considered
5.1.5	**The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases** 1. **Implementation of guidelines of statutory/regulatory bodies** 2. **Organisation wide awareness and undertakings on policies with zero tolerance** 3. **Mechanisms for submission of online/offline students' grievances** 4. **Timely redressal of the grievances through appropriate committees** Answer before DVV Verification : A. All of the above Answer After DVV Verification: C. 2 of the above
5.2.3	**Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)** 5.2.3.1. **Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations*, etc.*)) year-wise during last five years** Answer before DVV Verification:

Table 1:

2019-20	2018-19	2017-18	2016-17	2015-16
931	958	857	828	771

Table 2:

2019-20	2018-19	2017-18	2016-17	2015-16
931	958	857	828	771

Table under 5.2.3.1:

2019-20	2018-19	2017-18	2016-17	2015-16

31	25	29	33	15

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
28	25	29	33	14

5.2.3.2. Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16

5.3.1	**Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**
	
	 5.3.1.1. Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.
	
	 Answer before DVV Verification:
	
		2019-20	2018-19	2017-18	2016-17	2015-16 |
						  | 7 | 7 | 3 | 3 | 0 |
						
						 Answer After DVV Verification :
						
							2019-20	2018-19	2017-18	2016-17	2015-16 |
											  | 2 | 1 | 0 | 0 | 0 |

5.3.1.1. Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
7	7	3	3	0

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
2	1	0	0	0

5.3.3   **Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)**

5.3.3.1. Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
24	34	33	40	31

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
10	12	9	6	4

Remark : All activities conducted over the period of time in sports counted as one event.

	Similarly, activities conducted in cultural activities counted as one
6.2.3	**Implementation of e-governance in areas of operation** 1. **Administration** 2. **Finance and Accounts** 3. **Student Admission and Support** 4. **Examination** Answer before DVV Verification : A. All of the above Answer After DVV Verification: C. 2 of the above Remark : As per supporting document, sl. No. 3 & 4 considered
6.5.3	**Quality assurance initiatives of the institution include:** 1. **Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements** 2. **Collaborative quality intitiatives with other institution(s)** 3. **Participation in NIRF** 4. **any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)** Answer before DVV Verification : A. All of the above Answer After DVV Verification: C. 2 of the above
7.1.4	**Water conservation facilities available in the Institution:** 1. **Rain water harvesting** 2. **Borewell /Open well recharge** 3. **Construction of tanks and bunds** 4. **Waste water recycling** 5. **Maintenance of water bodies and distribution system in the campus** Answer before DVV Verification : A. Any 4 or all of the above Answer After DVV Verification: D.1 of the above Remark : As per supporting document, sl. No. 3 considered. Waste water recycling bills are in the name of INDORE education society, some bills are in the name of INDORE PUBLIC SCHOOL.
7.1.5	**Green campus initiatives include:** 1. **Restricted entry of automobiles** 2. **Use of Bicycles/ Battery powered vehicles** 3. **Pedestrian Friendly pathways** 4. **Ban on use of Plastic** 5. **landscaping with trees and plants** Answer before DVV Verification : Any 4 or All of the above Answer After DVV Verification: C. 2 of the above
7.1.6	**Quality audits on environment and energy regularly undertaken by the Institution and any**

	awards received for such green campus initiatives: 1. **Green audit** 2. **Energy audit** 3. **Environment audit** 4. **Clean and green campus recognitions / awards** 5. **Beyond the campus environmental promotion activities** Answer before DVV Verification : A. Any 4 or all of the above Answer After DVV Verification: B. 3 of the above Remark : As per supporting document any three may be considered. Some audit reports look to be similar.
7.1.7	**The Institution has disabled-friendly, barrier free environment** 1. **Built environment with ramps/lifts for easy access to classrooms.** 2. **Disabled-friendly washrooms** 3. **Signage including tactile path, lights, display boards and signposts** 4. **Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment** 5. **Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading** Answer before DVV Verification : B. 3 of the above Answer After DVV Verification: D.1 of the above
7.1.10	**The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.** 1. **The Code of Conduct is displayed on the website** 2. **There is a committee to monitor adherence to the Code of Conduct** 3. **Institution organizes professional ethics programmes for students, teachers, administrators and other staff** 4. **Annual awareness programmes on Code of Conduct are organized** Answer before DVV Verification : A. All of the above Answer After DVV Verification: D. 1 of the above Remark : As per supporting document any one (sl.no. 1) considered. Institution has not organized any programme on professional ethic for students, teachers and administration.

2.Extended Profile Deviations

ID	Extended Questions
1.1	**Number of courses offered by the Institution across all programs during the last five years** Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
564	571	537	544	551

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
564	571	537	544	551

1.2 Number of programs offered year-wise for last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
15	18	14	14	14

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
15	18	14	14	14

2.2 Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
675	603	483	483	483

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
573	603	483	483	483

2.3 Number of outgoing / final year students year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
681	808	689	545	494

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
688	820	776	609	538

3.2 Number of sanctioned posts year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
210	202	191	185	162

	Answer After DVV Verification:				
	2019-20	2018-19	2017-18	2016-17	2015-16
	210	202	191	185	161

4.1	**Total number of classrooms and seminar halls** Answer before DVV Verification : 98 Answer after DVV Verification : 110

4.2	**Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1018.92859	1451.89199	1275.99543	1075.30769	1035.09277

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1307.5	2262.6	2050.6	1697.4	1982

4.3	**Number of Computers** Answer before DVV Verification : 1822 Answer after DVV Verification : 1358

09-11-2021 04:46:14