Criterion III – Research, Innovations and Extension

Metric No.	Key Indicator - 3.1 Promotion of Research and Facilities
3.1.1 **Q_lM**	***The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented:*** Present a write-up within a maximum of 200 words. The institute has a clear research promotion policy, available on its website, designed to cultivate a research-driven environment for faculty. The R&D Cell helps faculty enhance their research and stay updated on trends. The institute has expanded its research facilities, including specialized labs like Antenna, VLSI, Power Electronics, Nanoscience & Nanotechnology, and holds NABL accreditation for its Centre of Pump Engineering. Faculty members receive research funding from agencies such as DST and AICTE, with annual budgets allocated for lab and infrastructure development. Faculty are encouraged to collaborate with industries to address real-world challenges, supported by MoUs with industries and academic institutions. Additionally, faculty are motivated to pursue PhDs at prestigious institutes like IITs, with study leave provided. The institute promotes publication in top journals (SCI/ Scopus indexed) and participation in national and international conferences, covering related expenses. Faculty are also encouraged to pursue Intellectual Property Rights (IPR) and patents. These efforts significantly contribute to enriching the institute's academic and research capabilities. Research Policy Link: RD_Approved_Policy_2023-compressed.pdf **File Description:** ● Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption ● Provide URL of policy document on promotion of research uploaded on the website ● Any additional information
3.1.2 **Q_nM**	***The institution provides seed money to its teachers for research:*** 3.1.2.1: Seed money provided by the institution to its teachers for research during the year (INR in lakhs): **Year** | 2023-24 **(INR in Lakhs):** | 0 Data Requirement: ● Name of the teacher who received seed money

	• Research/Project Title • Amount of seed money • Month and Year of receiving the grant • Duration of the grant **File Description:** Upload the data template: • Minutes of the relevant bodies of the institution regarding seed money • Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized • List of teachers receiving grant and details of grant received • Any additional information
3.1.3 **Q_nM**	***Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year:*** **Year** 2023-24 **Number of teachers** 00 Data Requirement: • Name of the teacher who was awarded national /international fellowship(s) for advanced studies / research • Name of the Award • Month and Year of Award • Duration of the Award • Awarding Agency **File Description:** Upload the data template: • e-copies of the award letters of the teachers • List of teachers and details of their international fellowship(s) • Any additional information

Metric No.	Key Indicator - 3.2 Resource Mobilization for Research
3.2.1 **Q_nM**	***Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs):*** **Year** 2023-24 **(INR in Lakhs):** 119.07 Data Requirement: • Name of the Project/ Endowment/Chair • Name of the Principal Investigator • Department of the Principal Investigator • Month and Year of Award

- Duration of the project
- Funds provided

File Description

3.2.1,3.2.2 & 3.2.4.xlsx

Upload the data template:

- e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations
- List of projects and grant details
- Any additional information

3.2.2 ***Number of teachers having research projects during the year:***

QnM

Year	2023-24
Number of teachers having research projects	07

File Description:

3.2.1,3.2.2 & 3.2.4.xlsx

Upload the data template:

- Upload any additional information
- Paste link for additional Information

3.2.3 ***Number of teachers recognised as research guides::***

QnM

Year	2023-24
Number	63

Data Requirement:

- List of teachers recognized as research guides

File Description:
Upload the data template

- Upload copies of the letter of the university recognizing teachers as research guides

Documents: Upload copies of the letter of the university recognizing faculty as research guides

File Description: DATA TEMPLATE

- Any additional information
- Institutional data in prescribed format

3.2.4 **QnM**	***Number of departments having research projects funded by Government and Non-Government agencies during the year:***

Year	2023-24
Number	04

3.2.1,3.2.2 & 3.2.4.xlsx

Data requirement:

- Name of the Principal Investigator
- Department that received the funding
- Name of the research project
- Duration of the project
- Name of the funding agency
- Amount / Fund received
- Month and Year of sanction

File Description:

Upload the data template:

- Supporting document from Funding Agencies
- Paste link to funding agencies' website
- Any additional information

Metric No.	**Key Indicator - 3.3 Innovation Ecosystem**
3.3.1 **Q_lM**	***Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.*** **Present a write-up within a maximum of 200 words.** The Institute Innovation Council (IIC) has been operating under the Ministry of Education's guidelines for six years. The National Innovation Startup Policy promotes the startup and innovation ecosystem at SGSITS, focusing on entrepreneurship, Intellectual Property Rights (IPR), technology licensing, and rural enterprise. The Start-up Cell has been supporting startups since 2018, and E-Cell SGSITS, established in

2015, hosts workshops, speaker sessions, and events for aspiring entrepreneurs.

The Centre for Innovation, Design & Incubation (CIDI), founded in 2018, facilitates innovation and incubation activities in engineering departments, with an exclusive building and CEO-led staff. CIDI collaborates with industries and offers in-house training, alongside a fab-lab facility for the SGSITS Incubation Forum (SIF). SIF, incorporated in 2019, supports technology incubation and entrepreneurship, offering mentoring, funding, and investor connections.

SGSITS includes the Essence of Indian Knowledge System (EIKT) as a mandatory subject for all B.Tech programs and hosted a lecture series on Bhartiya Gyan Parampara in July 2022. An MOU was signed with the Centre for Ancient Indian Mathematics at DAVV, Indore. The Intellectual Property Rights Cell (IPRC) protects and promotes IP, following its own policy and guidelines. The AICTE-IDEA Lab supports STEM projects, offering mentorship and facilities for idea-to-prototype development, including boot camps, workshops, and hackathons.

File Description

- Upload any additional information
- Paste link for additional information

3.3.2

Q_nM

Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year:

Year	2023-24
Number	38

Data Requirement:

- Name of the workshops / seminars
- Number of participants (Number of staff and students)
- Date (from - to)
- Link to the report of activities on the website

File Description: View here

Upload the data template

- Report of the events
- List of workshops/seminars conducted during the year
- Any additional information

Metric No.	Key Indicators - 3.4 Research Publications and Awards

3.4.1 ***The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following:***

Q_nM

1. *Research Advisory Committee*
2. *Ethics Committee*
3. *Inclusion of Research Ethics in the research methodology course work*
4. *Plagiarism check through authenticated software*

Options:

A. All of the above
B. Any 3 of the above
C. Any 2 of the above
D. Any 1 of the above
E. None of the above

All of the above

Copy of the syllabus of the research methodology course work to indicate if research ethics is include	View here
Constitution of the ethics committee and its proceedings as approved by the appropriate body	View here
Constitution of research advisory committee and its proceedings as approved by the appropriate body.	View here
Bills of purchase of licensed plagiarism check software in the name of the HEI	View here
Provide Links for any other relevant document to support the claim (if any)	View here

File Description:

- Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check
- Any additional information

Note: Data template is not applicable to this metric.

3.4.2

QnM

Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year:

3.4.2.1 Number of PhD students registered during the year:

Year	2023-24
Number	101

3.4.2.2 Number of teachers recognized as guides during the year:

Year	2023-24
Number	63

File Description:

Upload the data template:

- URL to the research page on HEI web site View here
- List of PhD scholars and details like name of the guide, title of thesis, and year of registration :Data Template
- Any additional information

3.4.3

Q_nM

Number of research papers per teacher in CARE Journals notified on UGC website during the year:

Year	2023
Number	89/200 =0.445

Ok

Data Requirement:

- Title of the paper
- Name of the author(s)
- Department of the author(s)
- Name of the Journal
- Month and Year of publication
- ISSN
- Page numbers (from - to)

File Description:

Upload the data template: View here

- List of research papers by title, author, department, and year of publication
- Any additional information

3.4.4 ***Number of books and chapters in edited volumes / books published per teacher during the year:***

Q_nM

Year	2023-24
Number	0.3

Data Requirement:

- Name of the Teacher/Author
- Title of the paper
- Title of the Book/Proceedings of the Conference
- Name of the publisher
- National / International
- ISBN
- Month and Year of publication
- Pages (from - to)

File Description

Upload the data template: View here

- Upload any additional information
- Paste link for additional information

3.4.5 ***Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed***

QnM

3.4.5.1: Total number of Citations in Scopus during the year
Total number of Citations in Web of Science during the year

Year	2023-24
Number	5826

3.4.5.2 : Total number of Publications in Scopus during the year
Total number of Publications in Web of Science during the year

Year	2023-24
Number	11004

Data Requirements for during the year:

- Title of the paper
- Name of the author
- Title of the journal
- Year of publication
- Citation Index

File Description (Upload); View here

- Any additional information
- Bibliometrics of the publications during the year

* The Data obtained from INFLIBNET will be used for the purpose.

Note: Data template is not applicable to this metric.

3.4.6 ***Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University***

QnM 3.4.6.1: h-index of Scopus during the year

h-index of Web of Science during the year

Year	2023-24
Number	264

Data Requirements for during the year:

- Title of the paper
- Name of the author
- Title of the journal
- Year of publication
- H index

File Description: **View here**

- Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution
- Any additional information

* The Data obtained from INFLIBNET will be used for the purpose.

Note: Data template is not applicable to this metric.

Metric No.	Key Indicators - 3.5 Consultancy
3.5.1 **Q_nM**	***Revenue generated from consultancy and corporate training during the year (INR in lakhs):***

Year	2023-24
(INR in Lakhs)	13516060

Data Requirement:

- Names of the consultants / corporate trainers
- Name of the consultancy project / corporate training
- Consulting/Sponsoring agency with contact details
- Revenue generated (amount in lakhs of rupees)
- Total revenue generated in lakhs of rupees

File Description:

Upload the data template:

- Audited statements of accounts indicating the revenue generated through consultancy and corporate training
- List of consultants and revenue generated by them
- Any additional information

- PROOF LINK of Audited statement: view document
- List of consultants and revenue generated by them view document Pdf Proof

3.5.2

Q_nM

Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year:

Year	2023-24
(INR in Lakhs)	NIL

Information Requirement:

- Facility developed and amount spent
- Training programmes for teachers for undertaking consultancy
- Training programme for clerical/project staff for supporting activities related to consultancy
- Total expenditure on training teachers and staff for consultancy

File Description:

- Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy
- List of training programmes, teachers and staff trained for undertaking consultancy
- List of facilities and staff available for undertaking consultancy
- Any additional information

Note: Data template is not applicable to this metric.

Metric No.	Key Indicators - 3.6 Extension Activities

3.6.1

Q_lM

Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year:

Describe the impact of extension activities in sensitising students to social issues for their holistic development within a maximum of 200 words.

As one of the oldest technical institutes in Central India, the institute has a strong connection with the local community. Students are encouraged to participate in social extension activities through various clubs, the National Cadet Corps (NCC), and the National Service Scheme (NSS). These units organize outreach programs focused on issues like child education, child marriage, health, malnutrition, and environmental problems. Activities include rallies, street plays, teaching, orphanage and old-age home services, food and clothing distribution, plantation drives, and blood donation. The NSS has worked in villages like Ujjaini, Badarkha, and Tinchha, raising awareness about social issues. NCC cadets engage in camps, such as Swachh Bharat Abhiyan, and organize events like a Mini Marathon, anti-drug rallies, and road safety campaigns. They also supported COVID-19 awareness with a mask campaign. Additionally, NCC cadets hold marathons and social awareness camps in rural areas. The institute hosts the annual Techfest AAYAM, fostering talent and technical knowledge. The prestigious "Chitale Award for Outstanding Social Work & quot; recognizes students for their contributions to social causes. The Nature Club actively participates in environmental conservation, including tree plantations. Recently, the institute won the Green Campus Award from Indore Municipal Corporation for its efforts in sustainability.

File Description:

- Upload any additional information

	• Paste link for additional information
3.6.2 **Q_nM**	***Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year:*** **Year** 2023-24 **Number** 11 Data Requirement: • Name of the activity • Name of the award/ recognition • Name of the awarding agency • Recipient(s) of the award • Year of the award **File Description:** Upload the data template: • Number of awards for extension activities in during the year • e-copy of the award letters: View document • Any additional information: Data Template
3.6.3 **Q_nM**	***Number of extension and outreach programmes conducted by the institution through NSS/NCC during the year*** **Year** 2023-24 **Number** 23 Data Requirement: • Name and number of extension and outreach programmes • Name of the collaborating agency: Non-Government, industry, community with contact details **File Description:** • Reports of the events organized: • Any additional information DATA TEMPLATE The report of the activity conducted by NCC ….. The report … NSS
3.6.4 **Q_nM**	***Number of students participating in extension activities listed in 3.6.3 during the year:*** **Year** 2023-24 **Number** 23 Data Requirement: • Name of the activity • Name of the scheme • Year and Duration • Number of students who participated in these activities **File Description:**

	Upload the data template: DATA TEMPLATE • Reports of the events • Any additional information •

Metric No.	Key Indicator - 3.7 Collaboration
3.7.1 **Q_nM**	***Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work:*** **Year** 2023-24 **Number** 324 Data Requirement: • Title of the collaborative activity • Name of the collaborating agency with contact details • Source of financial support • Nature of the activity **File Description:** Upload the data template: View here • Copies of documents highlighting collaboration • Any additional information Copies of the documents highlighting collaboration can be seen at …….
3.7.2 **Q_nM**	***Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate* houses, *etc. during the year (only functional MoUs with ongoing activities to be considered):*** **Year** 2023-24 **Number** 28 Data Requirement: • Organizations with which MoU have been signed • Name of the institution/ industry/ corporate house • Year of signing MoU • Duration • List of the activities under each MoU • Number of students/teachers who participated in various activities • **File Description:** Upload the data template: View here • e-copies of the MoUs with institution/ industry/ corporate house • Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year • Any additional information •