

Criterion IV – Infrastructure and Learning Resources

Metric No.	Key Indicator - 4.1 Physical Facilities
<p>4.1.1</p> <p>Q,M</p>	<p><i>The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.</i></p> <p>Describe the adequacy of facilities for teaching-learning as per the minimum requirement specified by statutory bodies (within a maximum of 200 words).</p> <p>4.1 Physical Facilities</p> <p>4.1.1 The Institution has adequate infrastructure and other facilities for</p> <ol style="list-style-type: none"> 1. Teaching – learning, viz., classrooms, laboratories, computing equipment etc 2. ICT – enabled facilities such as smart class, LMS etc. <p>Response:</p> <p>The Institute possesses a required number of classrooms for facilitating the classroom teaching of UG, PG, and PhD students. Classes take place in the Lecture Theatre (LT), main Academic Block, and ATC building of the institute. Lecture theatres are equipped with modern teaching aids. Furthermore, there are smart seminar rooms and drawing halls. Smart boards are installed in almost all departments. Typically, PG classes are held within their respective departments. Program-specific laboratories are typically located within the concerned academic departments. However, for interdisciplinary subjects, students also visit related departments. The departments have their own seminar rooms and conference rooms.</p> <p>There are numerous central facilities available for students, which are utilized by all the departments as per their needs. These facilities include the Computer Centre, Central Workshop, Centre of Innovation, Design & Incubation (CIDI), Central Library, Idea Lab, etc.</p> <p>The Computer Center is a vital component of the institute, featuring two well-equipped labs with state-of-the-art computers. It offers computing facilities to all first-year students (B.Tech.) for their practical programming work and internet usage. With a large number of computers available, students have sufficient time and opportunities to practice and enhance their programming skills. Moreover, the facilities of the computer center are also utilized for conducting programming labs for students in advanced classes across various branches. Additionally, the Computer Center serves as the venue for online tests conducted by companies recruiting from the institute. The Centre of Innovation, Design & Incubation (CIDI) remains accessible to students beyond institute hours, from 8 PM to 9 PM.</p> <p>File Description:</p> <ul style="list-style-type: none"> • Upload any additional information • https://drive.google.com/drive/folders/1KrNDHnc9ZrAuXoaPOWVNwPwCjpaec-6L

<p>4.1.2</p> <p>Q_iM</p>	<p><i>The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)</i></p> <p>Describe the adequacy of institutional facilities for cultural activities, yoga, and sports and games (indoor and outdoor) which include specification about area/size, year of establishment and user rate (within a maximum of 200 words).</p> <p>File Description</p> <p>The Institution has adequate infrastructure and other facilities for Cultural and sports activities, yoga center, games (indoor and outdoor), Gymnasium, auditorium etc.</p> <p>Physical recreation through games and sports has been an integral part of the Institute. The institute provides ample sports facilities for a variety of indoor and outdoor games for students on its premises. Adequate facilities for both outdoor activities (e.g., cricket ground, lawn tennis court, basketball court, turf volleyball court, etc.) and indoor sports (badminton court, table tennis court, etc.) are available in the institute. Annual Sports Meet “VARCHASVA” (Inter-branch Tournament) is organized every year for the promotion of Sports activities among students. Various Sports tournaments for Teaching & Non-Teaching Staff are also organized.</p> <p>The gymnasium was started in the Institute on the occasion of the Silver Jubilee of the 1986 batch with the name “GYMNASIUM LEGEND 86”. The institute gym is equipped with advanced exercise machines both for aerobics and heavy weight lifting like treadmills, cross-trainers etc. The gym facility is available for students, faculties, and alumni of the institute. Gymnasium has a full-time dedicated team of trainers and an attendant supervised by a Professor-in-charge. Students also practice yoga in the gym premises.</p> <p>There is a separate space “SILVERIA 91” for cultural activities & Induction programs. There is an open ground & stage in front of the Student Activity Centre for organizing the Annual cultural fest.</p> <p>The yoga activities are performed in the ‘SILVERIA 91’ on the occasion of International Yoga Day i.e. 21 June every year and also organise the ‘Yoga Workshop’ for the proper training, encouragement and awareness towards health and hygiene.</p> <p>Institute has a separate space for student clubs (SAC) at the central level e.g. for SAE (BAJA), KSHITIJ, Students Robotics Club (SRC) etc. Departmental clubs are also active which operate from their respective departments.</p> <ul style="list-style-type: none"> ● Geotagged pictures ● Upload any additional information ● Paste link for additional information <p>https://www.sgsits.ac.in/index.php/facilities/gymnasium</p>

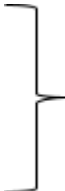
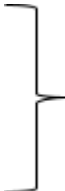
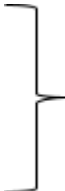
<p>4.1.3</p> <p>Q_nM</p>	<p><i>Number of classrooms and seminar halls with ICT-enabled facilities:</i></p> <table border="1"> <tr> <td>Year</td><td>2023-2024</td></tr> <tr> <td>Number</td><td>46</td></tr> </table> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Number of classrooms with LCDs • Number of classrooms with Wi-Fi/LAN facilities • Number of smart classrooms and interactive boards • Number of classrooms with LMS facilities • Number of seminar halls with ICT facilities <p>File Description: Upload the data template https://docs.google.com/spreadsheets/d/1IpTd2aGhqQx3Fh0XNvc5aP3f-wLUzvtJ/edit?gid=314395032#gid=314395032 <ul style="list-style-type: none"> • Upload any additional information </p>	Year	2023-2024	Number	46
Year	2023-2024				
Number	46				
<p>4.1.4</p> <p>Q_nM</p>	<p><i>Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs):</i></p> <table border="1"> <tr> <td>Year</td><td>2023-2024</td></tr> <tr> <td>(INR in Lakhs)</td><td>Nil</td></tr> </table> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Expenditure for infrastructure augmentation Nil • Budget allocated for infrastructure augmentation 3600000 • Year of allocation 23-24 • Total expenditure excluding salary 4273902 <p>File Description: Upload the data template <ul style="list-style-type: none"> • Upload audited utilization statements • Details of Expenditure, excluding salary, during the years • Any additional information • https://docs.google.com/spreadsheets/d/1sEibIHC1M9UKAjnc_T9vbB8su8lhkcey/edit?gid=1405354820#gid=1405354820 • https://drive.google.com/drive/folders/1nycJoj8Xwx7KSIBP9v7jiLxEyImKEyxD </p>	Year	2023-2024	(INR in Lakhs)	Nil
Year	2023-2024				
(INR in Lakhs)	Nil				

Metric No.	Key Indicator - 4.2 Library as a Learning Resource
<p>4.2.1</p> <p>Q₁M</p>	<p>Library is automated using Integrated Library Management System (ILMS):</p> <p>Data Requirement: Provide a description of the library with</p> <ul style="list-style-type: none"> • Name of the ILMS software: Libsys 10 Cloud • Nature of automation (full or partial): Full Automation • Version: Cloud Version Software • Year of automation: Automation since 2005, Libsys 10 Cloud on 2023 <p>Present a write-up within a maximum of 200 words.</p> <p>The library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made.</p> <p>The Institutes' Central Library was established in 1955 with a small collection of 429 books. Currently, it is fully equipped with more than one lakh high-quality, high-cost standard reference and textbooks, world-renowned international and national research journals, theses, project reports, audio/visual and electronic learning resources in all disciplines of technical education. It also contains literature in the fields of social sciences and humanities. The central library occupies a separate three-floor building with a floor area of 2050 square meters and a seating capacity of more than 300. On average, more than 1000 books are added each year to the library. The library remains open every day of the week, including Saturdays and Sundays, to provide effective services to users.</p> <p>Library Automation: The library has complete automation, maintaining databases of books and library readers, an online catalogue (Web OPAC), and barcoding of documents.</p> <p>Infrastructure: The library has 40 computers, Servers, Scanner, 1 GB speed Internet, Library LAN, Campus Wide Networks (CWN), CCTV Cameras and associated infrastructure to provide library services and e-resources (e-books, offline journals, online journals, BIS codes etc.)</p> <p>Library Software: The library is using the latest version of Libsys10 Cloud, an Integrated Library Management Software (ILMS), to automate all functions.</p> <p>E-resources: Subscribed to a sufficient number of e-books and e-journals through DELNET, UGC NLIST, IEEE and the Remote Access Platform.</p> <p>Use: All print and e-resources are optimally used by the faculty and students.</p> <p>External Membership of Library: Library has opted the external membership of Indian Institute of Technology (IIT) Indore, Learning Resources Center (Central library)</p> <p>File Description:</p> <ul style="list-style-type: none"> • Upload any additional information • Paste link for additional information • https://www.sgsits.ac.in/index.php/facilities/central-library

<p>4.2.2</p> <p>Q_nM</p>	<p><i>Institution has access to the following:</i></p> <ol style="list-style-type: none"> 1. e-journals: IEEE, Under N-LIST Membership - AIP, JSTOR, Oxford University Press, Royal Society of Chemistry, EBSCO, Cambridge University Press. DELNET Membership for access of e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books: 185000 e-books under N-LIST and DELNET 5. Databases 6. Remote access to e-resources: Subscribe Knimbus during 2023-24 <p>Options:</p> <p>A. Any 4 or more of the above</p> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Details of institutional memberships in other libraries • External Membership of Library: Library has opted for the external membership of Indian Institute of Technology (IIT) Indore, Learning Resources Center (Central library). • Details of subscription: DELNET, UGC NLIST, IEEE e-journals and transactions <p>File Description:</p> <p>Upload the data template:</p> <ul style="list-style-type: none"> • Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership • Upload any additional information • https://www.sgsits.ac.in/index.php/facilities/central-library • https://docs.google.com/spreadsheets/d/1zbkDOIOL56R7UGq3oNNa18kDGBR2akpC/edit?gid=242707728#gid=242707728 				
<p>4.2.3</p> <p>Q_nM</p>	<p><i>Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs):</i></p> <table border="1" data-bbox="264 1375 740 1460"> <tr> <td>Year</td><td>2023-2024</td></tr> <tr> <td>(INR in Lakhs)</td><td>4.37438</td></tr> </table> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Expenditure on purchase of books/ e-books 121584/- • Expenditure on subscription to journals/e-journals 86678/- • Month and Year of expenditure <p>File Description:</p> <p>Upload the data template:</p> <ul style="list-style-type: none"> • Audited statements of accounts • Any additional information • https://docs.google.com/spreadsheets/d/1zbkDOIOL56R7UGq3oNNa18kDGBR2akpC/edit?gid=242707728#gid=242707728 	Year	2023-2024	(INR in Lakhs)	4.37438
Year	2023-2024				
(INR in Lakhs)	4.37438				

4.2.4 Q_nM	Usage of library by teachers and students (footfalls and login data for online access):	
	4.2.4.1: Number of teachers and students using the library per day during the year	
	Year	2023-24
	Number	77015
Data Requirement: <ul style="list-style-type: none">● Upload the last page of accession register : File attached● Method of computing the per day usage of library: 211● Number of physical users accessing the library: 211● Number of users using the library through e-access:		
File Description <ul style="list-style-type: none">● Upload details of library usage by teachers and students● Any additional information		
HEI is requested to calculate the teachers' and students' usage of the library per day. Average = Total number of teachers and students on every working day for all working days / Total number of working days.		
Usage Per Day = 77015 / 365		
Note: Data template is not applicable to this metric.		

Metric No.	Key Indicator – 4.3 IT Infrastructure
<p>4.3.1</p> <p>Q_M</p>	<p><i>Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities:</i></p> <p>Describe IT facilities including Wi-Fi with date and nature of updation within a maximum of 200 words</p> <p>Response:</p> <p>The Institute maintains its IT facilities through a separate cell called as campus-wide Network (CWN) Cell, which also has dedicated manpower.</p> <p>The CWN Cell frequently upgrades its IT Services by procuring modern equipment like Servers, Switches, Routers, Storages, etc. The Institute has 03 Nos. of ISP Connections. There is a 1 GBPS leased line from NKN, 300 MBPS BroadBand connections through Tikona and a 10 MBPS leased line through Khetan Internet Services.</p> <p>The campus wide network cell is the backbone of the institute's communication network. The CWN take responsibility for the following:</p> <ul style="list-style-type: none"> ● Providing uninterrupted 24x7 internet facility to academic blocks, all laboratories, faculty rooms, boys and girls hostels, staff quarters, directors bungalow, non-teaching staff quarters etc. ● The CWN also connects all surveillance systems through a separate virtual private network. The recorded data of surveillance cameras are stored at servers. These data are shared as and when requested by parties through proper channels. ● The CWN also provides email services (through mail.sgsits.ac.in) to all faculty members, non teaching members as well as to all students. The email servers are hosted at CWN and have 99% uptime. Appropriate firewalls and spamassassin are loaded to minimize spams and unwanted emails. ● The software such as Microsoft products through Azure, Matlab, LabView, AutoCAD, purchased and the license are offered through centralized servers to all on site through proxy servers. ● The Moodle server is also hosted in CWN. The server provides support to conduct online examinations, quizzes, data collection, feedback, etc. The server has a capacity of accommodating more than 1000 simultaneous users. ● The CWN section maintains Wi-Fi facilities by procuring the latest technologies equipment, like Access Points, switches, etc. ● The CWN also hosts EduRoam, an academic wireless service of MHRD. ● Uninterrupted services are provided through appropriate power backup for air conditioners and servers; fiber optic looped networking, uninterrupted power supply, etc. <p>File Description:</p> <ul style="list-style-type: none"> ● Upload any additional information

	<ul style="list-style-type: none"> Paste link for additional information <p>Supporting Document</p> <p>https://drive.google.com/drive/folders/1PcuJtVVTf6sFkqqhrVb1usKcEcPXgWil</p>						
<p>4.3.2</p> <p>Q_nM</p>	<p>Student - Computer ratio</p> <p>Number of Students: Number of Computers</p> <table border="1"> <tr> <td>Year</td><td>2023-2024</td></tr> <tr> <td>Number of Students</td><td>1461</td></tr> <tr> <td>Number of Computers</td><td>912</td></tr> </table> <p>File Description:</p> <ul style="list-style-type: none"> Upload any additional information <p>Note: Data template is not applicable to this metric.</p> <p>https://drive.google.com/file/d/1IESdxeiJFq8ccl1ufifDxuV3Mkbv5EgP/view</p>	Year	2023-2024	Number of Students	1461	Number of Computers	912
Year	2023-2024						
Number of Students	1461						
Number of Computers	912						
<p>4.3.3</p> <p>Q_nM</p>	<p>Bandwidth of internet connection in the Institution and the number of students on campus:</p> <p>Options:</p> <table border="0"> <tr> <td> <p>A. ≥ 50 Mbps</p> <p>B. 35 Mbps - 50 Mbps</p> <p>C. 20 Mbps - 35 Mbps</p> <p>D. 5 Mbps - 20 Mbps</p> <p>E. < 5 Mbps</p> </td> <td>  <p>Choose any one</p> </td> </tr> </table> <p>Response: A ≥ 50 Mbps</p> <p>The Institute has 03 Nos. of ISP Connections. There is a 1 GBPS leased line from NKN, 300 MBPS BroadBand connections through Tikona and a 10 MBPS leased line through Khetan Internet Services.</p> <p>File Description</p> <ul style="list-style-type: none"> Details of bandwidth available in the Institution Upload any additional information chrome-extension://efaidnbmninnibpcapjpcglclefindmkaj/https://assessmentonline.naac.gov.in/storage/app/hei/SSR/101751/4.3.1_1714049455_10978.pdf <p>Note: Data template is not applicable to this metric.</p>	<p>A. ≥ 50 Mbps</p> <p>B. 35 Mbps - 50 Mbps</p> <p>C. 20 Mbps - 35 Mbps</p> <p>D. 5 Mbps - 20 Mbps</p> <p>E. < 5 Mbps</p>	 <p>Choose any one</p>				
<p>A. ≥ 50 Mbps</p> <p>B. 35 Mbps - 50 Mbps</p> <p>C. 20 Mbps - 35 Mbps</p> <p>D. 5 Mbps - 20 Mbps</p> <p>E. < 5 Mbps</p>	 <p>Choose any one</p>						

<p>4.3.4</p> <p>QnM</p>	<p><i>Institution has facilities for e-content development:</i></p> <p><i>Facilities available for e-content development:</i></p> <ol style="list-style-type: none"> 1. Media Centre 2. Audio-Visual Centre 3. Lecture Capturing System (LCS) 4. Mixing equipments and software for editing <p><i>Options:</i></p> <ol style="list-style-type: none"> A. All four of the above B. Any three of the above C. Any two of the above D. Any one of the above E. None of the above <p>Response: D.Any one of the above</p> <p>Supporting Documents</p> <p>https://drive.google.com/file/d/1_XgQ3TiPV_1Wo2RGGpJs40EQI5ak3JU/view?usp=drive_link</p> <p>https://www.youtube.com/@GSProductionHouse</p> <p>https://drive.google.com/drive/folders/1TEnaELmXQ01LsLFfwJFtbr0V_WGZaPku</p> <p>File Description:</p> <p>Upload the data template:</p> <ul style="list-style-type: none"> • Upload any additional information • Paste link for additional information
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Metric No.	Key Indicator - 4.4 Maintenance of Campus Infrastructure		
4.4.1 Q _n M	<i>Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs):</i>		
	Year	2023-2024	
	(INR in Lakhs)	42.73902	
	Data Requirement:		
	<ul style="list-style-type: none">● Non-salary expenditure incurred● Expenditure incurred on maintenance of campus infrastructure		
File Description:			
Upload the data template			
<ul style="list-style-type: none">● Audited statements of accounts● Upload any additional information			

	<ul style="list-style-type: none"> chrome-extension://efaidnbmnnnibpcajpcgclefindmkaj/https://www.sgsits.ac.in/files/Audit_Report_2023_2024c.pdf <p>Excel Sheet https://docs.google.com/spreadsheets/d/1nhtRL5u75Ko1cUOldnO7ACQk-Y735N7e/edit?gid=1405354820#gid=1405354820</p>
<p>4.4.2</p> <p>Q_iM</p>	<p><i>There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.</i></p> <p>Describe the institution's policy with details of systems and procedures for maintaining and utilizing physical, academic and support facilities (within a maximum of 200 words).</p> <p>Response:</p> <p>Classrooms: The institute has a well-established system and procedure for the utilization and maintenance of its academic resources and facilities. There is a Classroom management committee headed by a Professor-in-charge, which takes care of allotment of classrooms to various departments for its maximum and effective utilization. Committee is also responsible for upgrading the classrooms with ICT tools. The committee is tasked with ensuring the effective maintenance of classrooms, including the cleaning of all classrooms, auditoriums, lecture theatres, and washrooms, carried out by the institute's housekeeping staff. Electrical and civil maintenance of classrooms is taken care of by the Electrical and maintenance cell of the institute. Water coolers are maintained and cleaned regularly as per the standard practices.</p> <p>Laboratories:- There is a Professor in charge of each laboratory. Routine equipment maintenance is managed by the lab staff. General record-keeping of all the laboratory equipment is conducted at the departmental level. Stock registers are maintained for both, non-consumable (dead stock) and consumable items. An institute-level committee conducts annual physical stock verification for each of the departments/sections/hostels. Electrical and civil maintenance of laboratories is handled by the institute's electrical and maintenance cell respectively. The staff at the computer center maintains both the hardware and software themselves. This includes periodic checks of computer hardware components such as CPUs, monitors, keyboards, mice, and printers. Regular cleaning of internal components is performed to prevent overheating and malfunctions. Softwares are regularly updated to fix bugs, enhance security, and improve functionality. Implementing backup solutions and disaster recovery plans are in place to safeguard critical data and ensure uninterrupted operations.</p> <p>Library:- There are various systems and procedures for maintaining Library resources, facilities and their maximum utilization by the students and faculty members. The library operates under an Open Access System, utilizing Barcoding, Classification, and</p>

Computerized Cataloguing. It employs a standardized Library Automation Software for efficient Issue/Return processes. Additionally, there is access to a wide range of E-resources, including e-Journals and e-books, facilitated by high-speed Internet connectivity. The library's information is conveniently accessible on its dedicated web page through the institute's website. The library's resource utilization data can be accessed through its Automation Software and Online System, which is renewed from time to time from the concerned agency.

Sports Complex:- The institute has appointed a proficient trainer to look after the regular maintenance and conduct routine activities at the gymnasium. Outdoor sports grounds are maintained by two groundskeepers from an outsourcing agency by performing tasks such as watering, rolling, and marking. An attendant looks after the indoor sports complex for cleanliness and maintenance. The institute covers expenses such as travel allowances, daily allowances, rent, and sports uniforms for students participating in selected sports events.

Similar practice is followed for maintaining and utilizing the resources at other places throughout the institute.

File Description:

- Upload any additional information
- Paste link for additional information
- chrome-extension://efaidnbmnnnibpcajpcgclcfndmkaj/https://assessmentonline.naac.gov.in/storage/app/hei/SSR/101751/4.4.2_1714137386_10978.pdf

Supporting Documents

<https://drive.google.com/drive/folders/1-EgMFyZfPuehiU99geeWLAgsXyvBDU43>