Criterion IV: - Infrastructure and Learning Resources

The adequacy and optimal use of the facilities available in an institution are essential to maintain the quality of academic and other programmes on the campus. It also requires information on how every constituent of the institution - students, teachers and staff - benefit from these facilities. Expansion of facilities to meet future development is included among other concerns.

The focus of Criterion IV is captured in the following Key Indicators:

KEY INDICATORS

- 4.1 Physical Facilities
- 4.2 Library as a Learning Resource
- 4.3 IT Infrastructure
- 4.4 Maintenance of Campus Infrastructure

4.1 Physical Facilities

Adequate infrastructure facilities are keys for effective and efficient conduct of the educational programmes. The growth of infrastructure thus has to keep pace with the academic developments in the institution. The other supportive facilities on the campus are developed to contribute to the effective ambience for curricular, extra- curricular and administrative activities. A provision of expenditure in the budget is made annually for maintenance and replenishment of physical facilities which will ensure their availability on a continual basis.

4.2 Library as a Learning Resource

The library holdings in terms of books, journals and other learning materials and technology-aided learning mechanisms which enable students to acquire information, knowledge and skills required for their study programmes. A recent development in the field due to availability of digital means, the functioning of the library has undergone a drastic change. Automation of library using the ILMS, use of e-journals and books, providing remote access to e-resources in the library have become a matter of necessity. Providing for these and such other developments as well as utilizing them well are important indicators of the quality of an academic institution.

4.3 IT Infrastructure

The institution adopts policies and strategies for adequate technology deployment and maintenance. The ICT facilities and other learning resources are adequately available in the institution for academic and administrative purposes. The staff and students have access to technology and information retrieval on current and relevant issues. The institution deploys and employs ICTs for a range of activities.

4.4 Maintenance of Campus Infrastructure

Having adequate infrastructure is not enough for effective institutional functioning, but regular maintenance and periodic replenishment of infrastructure is essential. It is necessary that the institution has sufficient resources allocated for regular upkeep of the infrastructure and there are effective mechanisms for the upkeep of the infrastructure facilities; and promote the optimum use of the same.

	4.1 Physical Facilities	30	30	30	30
and Learning Resources	4.2 Library as a Learning Resource	20	20	20	20
	4.3 IT Infrastructure	30	30	30	30
	4.4 Maintenance of Campus Infrastructure	20	20	20	20
	Total	100	100	100	100

^{*} In case of HEIs who exercise to opt for the weightage of ≤3% of Non Applicable Metrics, the total score will vary accordingly.

- (U) applicable only for Universities and Autonomous Colleges
- (A) applicable only for the Affiliated/Constituent Colleges

NA - Not Applicable

Criterion IV - Infrastructure and Learning Resources (100)

Key Indicator - 4.1 Physical Facilities (30)

Metric No		Weightage
4.1.1	The institution has adequate facilities for teaching - learning. viz.,	10
0.14	classrooms, laboratories, computing equipment, etc.	
$\mathbf{Q_l}\mathbf{M}$	Describe the standard of the little for the standard to the standard of the st	
	Describe the adequacy of facilities for teaching —learning as per the	
	minimum specified requirement by statutory bodies within a maximum of 500 words	
	File Description	
	Upload any additional information	
	Paste link for additional information	
4.1.2	The institution has adequate facilities for cultural activities, yoga,	5
7.1.2	games (indoor, outdoor) and sports. (gymnasium, yoga centre,	J
$\mathbf{Q}_{\mathbf{l}}\mathbf{M}$	auditorium, etc.)	
	Describe the adequacy facilities for cultural activities, yoga, games	
	(indoor, outdoor) and sports which include specification about	
	area/size, year of establishment and user rate within minimum of 500	
	characters and maximum of 500 words	
	File Description	
	Upload any additional information	
	Geotagged pictures	
	Paste link for additional information	
4.1.3	Availability of general campus facilities and overall ambience	5
	Describe the general campus facilities and its utilization in maximum	
$\mathbf{Q_l}\mathbf{M}$	of 500 words	
	File Description	
	Upload any additional information	
	Paste link for additional information	

.4 М	Average percentage of expenditure excluding salary for infrastructure augmentation during the last five years (INR in Lakhs)	10
	4.1.4.1: Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)	
	Year	
	INR in lakhs	
	 Data Requirement for last five years: (As per Data Template) Budget allocated for infrastructure augmentation Total expenditure for infrastructure augmentation Audited statement of accounts Total expenditure excluding Salary 	
	Formula:	
	$Percentage per year = \frac{augmentation excluding salary}{Total expenditure excluding salary} \times 100$	
	Average percentage = $\frac{\sum Percentage Per year}{5}$ File Description	
	File Description	
	 Upload any additional information Upload audited utilization statements Upload Details of budget allocation, excluding salary during the last five years (Data Template) 	

Year			
INR in lakhs			

Key Indicator - 4.2 Library as a Learning Resource (20)

Metric No.		Weightage
4.2.1	Library is automated using Integrated Library Management System (ILMS) and has digitisation facility	4
$\mathbf{Q_l}\mathbf{M}$	Describe the implementation of the automation of the Library and the	
	digitization facility available and used in maximum of 500 words	
	File Description	
	Upload any additional information	
4.2.2	Paste link for additional information Institution Institution	-
4.2.2	Institution has subscription for e-Library resources	6
Q_nM	Library has regular subscription for the following:	
Çii	1. e – journals	
	2. e-books	
	3. e-ShodhSindhu	
	4. Shodhganga	
	5. Databases	
	Options:	
	A. Any 4 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	
	File Description	
	Upload any additional information	
	Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga	
	Membership etc (Data Template)	
4.2.3	Average annual expenditure for purchase of books/ e-books and	5
	subscription to journals/e-journals during the last five years (INR in	
0.14	Lakhs)	
$\mathbf{Q}_{\mathbf{n}}\mathbf{M}$	4.2.2.1. Annual expanditure for numbers of books and journals year	
	4.2.3.1: Annual expenditure for purchase of books and journals year wise during the last five years (INR in lakhs)	
	wise during the last live years (livix in lakils)	
	Data Requirement for last five years: (As per Data Template)	
	Expenditure on the purchase of books	
	 Expenditure on the purchase of journals in ith year 	
	Year of expenditure:	
	Formula:	
	$1 \stackrel{5}{\sim} -$	
	$\frac{1}{5} \times \sum_{i=1}^{5} Expd_i$	
	$5 \frac{1}{i=1}$	
	Where: $\mathbf{Expd_i} = \mathbf{Expenditure}$ in rupees on purchase of books and	

	File Description (Upload)	
	Any additional information	
	Audited statements of accounts	
	Details of annual expenditure for purchase of books and journals during the last five years (Data Template)	
4.2.4	Percentage per day usage of library by teachers and students (foot	5
$\mathbf{Q_n}\mathbf{M}$	falls and login data for online access) (Data for the latest completed	
	academic year)	
	4.2.4.1: Number of teachers and students using library per day over	
	last one year	
	Data Requirements:	
	 Upload last page of accession register details 	
	 per day login/online users of library 	
	 Number of users using library through e-access 	
	 Number of physical users accessing library 	
	Formula:	
	Number of teachers and students	
	library per day	
	$\frac{to rary per ady}{Total number of teachers and students} \times 100$	
	File Description (Upload)	
	Any additional information	
	 Details of library usage by teachers and students (Library accession register, online accession details to be provided as supporting documents) 	

Key Indicator – 4.3 IT Infrastructure (30)

Metric No.		Weightage
4.3.1	Percentage of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video	5
Q _n M	recording facilities .(Data for the latest completed academic year)	
	 4.3.1.1: Number of classrooms and seminar halls with ICT facilities Data Requirements: (As per Data Template) Number of classrooms with LCD facilities Number of classrooms with Wi-Fi/LAN facilities Number of seminar halls with ICT facilities 	
	Formula:	

	Eila Dagarintian	
	File Description • Upload any additional information	
	Paste link for additional information	
	Upload Number of classrooms and seminar halls with ICT enabled	
	facilities (Data Template)	
4.3.2	Institution has an IT policy, makes appropriate budgetary provision	5
	and updates its IT facilities including Wi-Fi facility	
$\mathbf{Q}_{1}\mathbf{M}$		
~	Providing the salient features of the IT Policy and describe the process	
	of implementation and adherence to the policy, budgetary provisions	
	made and utilized and the expansion plan in maximum of 500 words	
	File Description	
	Upload any additional information	
	Paste link for additional information	
4.3.3	Student - Computer ratio (Data for the latest completed academic	10
	year) Number of students a Number of Commuters evailable to students for	
$\mathbf{Q_n}\mathbf{M}$	Number of students: Number of Computers available to students for	
	academic purposes Data Requirements:	
	Number of computers for academic purposes in working	
	condition	
	Total Number of students	
	File Description	
	Upload any additional information	
	• Student – computer ratio	
	Zaudenia Compania rumo	
4.3.4	Available bandwidth of internet connection in the Institution	5
	(Leased line)	
$\mathbf{Q}_{\mathbf{n}}\mathbf{M}$		
	Options:	
	A. ≥ 1 GBPS	
	B. 500 MBPS - 1 GBPS	
	C. 250 MBPS - 500 MBPS D. 50 MBPS - 250 MBPS	
	E. <50 MBPS	
	Data Requirements:	
	Available internet bandwidth	
	File Description	
	Upload any additional information	
	Details of available bandwidth of internet connection in the	
	Institution	
4.3.5	Institution has the following Facilities for e-content development	5
	1. Media centre	
$\mathbf{Q}_{\mathbf{n}}\mathbf{M}$	2. Audio visual centre	
	3. Lecture Capturing System(LCS)	
	4. Mixing equipments and softwares for editing	
	Options:	
	A. All of the above	
	B. 3 of the above	

C. 2 of the above	
D. 1 of the above	
E. None of the above	
Data Requirements: (As per Data Template)	
 Upload the names of the e-content development facilities 	
File Description	
 Upload any additional information 	
 Links of photographs 	
 Facilities for e-content development such as Media Centre, 	
Recording facility, LCS etc (Data Templates)	

Key Indicator - 4.4 Maintenance of Campus Infrastructure (20)

Metric No.		Weightage
4.4.1	Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary	10
Q_nM	component during the last five years 4.4.1.1: Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year wise during the last five years (INR in lakhs)	
	Year	
	INR in lakhs	
	Data Requirement for last five years:(As per Data Template)	
	 Non salary expenditure incurred Expenditure incurred on maintenance of campus infrastructure Formula: 	
	Expenditure on maintenance of physical and academic support facilities Percentage per year = Expenditure on maintenance of physical and academic support facilities	
	$Average percentage = \frac{\sum Percentage per year}{5}$	
	File Description Upload any additional information	
	 Audited statements of accounts. Details about assigned budget and expenditure on physical facilities and academic facilities (Data Templates) 	

4.4.2 Q _l M	There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.	10
	Describe policy details of systems and procedures for maintaining and utilizing physical, academic and support facilities on the website within a minimum of 500 word and maximum of 1000 words File Description Upload any additional information Paste link for additional information	

Criterion IV – Infrastructure and Learning Resources (100)

Key Indicator - 4.1 Physical Facilities (30)

4.1.4 Average percentage of expenditure excluding salary for infrastructure augmentation during the last five years (INR in Lakhs) (10) 4.4.1 Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the last five years (INR in lakhs) .(10)

Year	Budget allocated for infrastructure augmentation	Expenditure for infrastructure augmentation	Total expenditure excluding Salary	Expenditure on maintenace of academic facilities (excluding salary for human resources)	Expenditure on maintenance of physical facilities (excluding salary for human resources)

Key Indicator - 4.2 Library as a Learning Resource (20)

33. 4.2.2 Institution has subscription for e-Library resources (6)

Library has regular subscription for the following: 1. e – journals,

- 2. e-books,
- 3.e-ShodhSindhu,
- 4.Shodhganga,
- 5.Databases
- 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) (5)

		Year 1			
Library resources Books	If yes, details of memberships/subscriptions	Expenditure on subscription to e-journals, e- books (INR in lakhs)	Expenditure on subscription to other e- resources (INR in lakhs)	Total Library Expenditure	Link to the relevant document
Journals					
e – journals					
e-books					
e-ShodhSindhu					
Shodhganga					
Databases					
		Year 2			
Library resources	If yes, details of memberships/subscriptions	Expenditure on subscription to e-journals, e- books (INR in lakhs)	Expenditure on subscription to other e- resources (INR in lakhs)	Total Library Expenditure	Link to the relevant document
Books					
Journals					
e – journals					
e-books					

e-ShodhSindhu					
Shodhganga					
Databases					
		Year 3			
		Expenditure on	Expenditure on		
		subscription to	subscription to		
		e-journals, e-	other e-		Link to the
т •1.	If yes, details of	books (INR in	resources (INR	Total Library	relevant
Library resources	memberships/subscriptions	lakhs)	in lakhs)	Expenditure	document
Books					
Journals					
e – journals					
e-books					
e-ShodhSindhu					
Shodhganga					
Databases					
		Year 4			
		Expenditure on	Expenditure on		
		subscription to	subscription to		
		e-journals, e-	other e-		Link to the
	If yes, details of	books (INR in	resources (INR	Total Library	relevant
Library resources Books	memberships/subscriptions	lakhs)	in lakhs)	Expenditure	document

e – journals					
e-books					
e-ShodhSindhu					
Shodhganga					
Databases					
		Year 5			
	If yes, details of	Expenditure on subscription to e-journals, e- books (INR in	Expenditure on subscription to other e- resources (INR	Total Library	Link to the relevant
Library resources	memberships/subscriptions	lakhs)	in lakhs)	Expenditure	document
Books					
Journals					
e – journals					
e-books					
e-ShodhSindhu					
Shodhganga					
Databases					

	Key Indicator - 4.3 IT Infrastructure				
34.	4.3.1 Percentage of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities .(Data for the latest completed academic year) (5)				
	Room number or Name of classrooms/Seminar Hall with LCD / wifi/LAN facilities with room numbers	Type of ICT facility	Link to geo tagged photos and master time table		
	** (Data for the latest completed academic ye				