



# **St. JOSEPH DENTAL COLLEGE**

(A Post Graduate Dental Institute)

Duggirala, ELURU – 534 003, Eluru Dt., A.P., IN

## **CRITERION-IV**

### **INSTITUTIONAL FACILITIES**



# **St. JOSEPH DENTAL COLLEGE**

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## **KEY INDICATORS**

- 1. Physical Facilities**
- 2. Clinical, Equipment and Laboratory Learning Resources**
- 3. Library as a Learning Resource**
- 4. IT Infrastructure**
- 5. Maintenance of Campus Infrastructure**



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## **SUMMARY**

**Infrastructure and Learning Resources focuses on providing a supportive physical, clinical, and technological environment essential for effective teaching and holistic student development. The criterion emphasizes the adequacy and optimal utilization of physical facilities including classrooms, laboratories, libraries, recreational spaces, and general campus infrastructure to create a conducive learning atmosphere. It ensures that institutions are equipped with well-maintained clinical and laboratory resources in line with regulatory standards, offering students hands-on exposure through patient interactions and practical sessions. The library serves as a dynamic academic hub with access to a rich collection of print and digital resources, automated systems, and e-learning tools to support self-directed learning. Information and Communication Technology (ICT) infrastructure is regularly updated, with Wi-Fi-enabled classrooms and sufficient internet bandwidth to facilitate digital learning. Financial commitment towards infrastructure development and maintenance reflects institutional dedication to sustainability and academic excellence. By integrating modern facilities, digital tools, and robust support systems, institutions can enhance learning experiences and contribute to the overall quality of higher education.**



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## 4.1 Physical Facilities

- The Institution has adequate facilities for teaching-learning, including classrooms, laboratories, and practical infrastructure that support effective academic delivery.
- Adequate facilities are available to support physical and recreational requirements of students and staff, such as sports complexes, gyms, and activity zones promoting well-being.
- The campus offers sufficient general facilities and a positive ambience, with clean surroundings, landscaping, proper signage, and seating arrangements.
- The Institution has consistently invested in infrastructure development, with a measurable average percentage of expenditure (excluding salary) over the last five years.

## 4.2 Clinical, Equipment and Laboratory Learning Resources

- Teaching hospital, equipment, and laboratories are available as per regulatory body requirements, supporting clinical and hands-on learning.
- The teaching hospital has treated a substantial average number of inpatients and outpatients annually over the past five years, offering real-world exposure to students.
- A consistent number of students are exposed yearly to laboratories, animal houses, and herbal gardens, either in-house or hired, for practical and research learning.
- Infrastructure exists to support community-based learning, enabling outreach programs and rural healthcare training.



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## 4.3 Library as a Learning Resource

- The library is automated through an Integrated Library Management System (ILMS), enabling efficient digital cataloging and access.
- The library houses a vast range of learning materials, including textbooks, reference volumes, rare books, manuscripts, digital archives, and ancient Indian language resources.
- An e-Library facility is available with registered access to various academic databases and resources for students and faculty.
- Significant annual expenditure is incurred for procuring books and journals, including e-journals, over the past five years.
- The library facilitates both in-person and remote access, and organizes user sessions to improve academic engagement.
- Teachers actively use e-content resources, integrating digital materials into the teaching-learning process.

## 4.4 IT Infrastructure

- A significant percentage of classrooms, seminar halls, and demonstration rooms are equipped with internet/Wi-Fi-enabled ICT facilities, enhancing digital learning.
- The Institution regularly updates its IT infrastructure, ensuring sufficient availability of computers and Wi-Fi for student use.
- The Institution maintains a reliable leased-line internet connection, with adequate bandwidth to support academic and administrative operations.
- 4.5 Maintenance of Campus Infrastructure
- Average annual expenditure is tracked for maintaining physical and academic support facilities, ensuring their functionality and usability.



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- Established systems and procedures are in place for maintaining and utilizing laboratories, libraries, sports facilities, classrooms, and ICT resources, promoting sustainability and efficiency.



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## 4.1.1 The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc.

Ensuring Academic Excellence through State-of-the-Art Infrastructure

### **List of available teaching-learning facilities**

S NO	Resource	Number
1	ICT enabled classrooms	4
2	ICT enabled auditorium	2 (seating capacity-300)
3	Tele conference room	2(seating capacity-145)
4	Seminar halls	8
5	Dental anatomy & oral histology	1
6	Pre-clinical Prosthodontics lab	1
7	Pre-clinical Conservative simulation) lab	1
8	Oral pathology lab	1
9	Acrylic lab	2
10	Ceramic lab	2
11	Dental materials lab	1
12	Pre-clinical Orthodontics lab	1
13	Pre-clinical Pedodontics lab	1
14	Museum	1
15	Tobacco cessation centre	1
16	Speciality Dental clinics	1
17	Implant clinic	1
18	Geriatric clinic	1
19	Comprehensive clinic	1
20	Major Operating theatre	1
21	Minor Operating theatre	2
22	Central Library	1
23	Digital library	1
24	Department library	9
25	Laser clinic	1
26	Satellite clinics/Rural health center	4
27	CRTC (BLS) center	1

The institution is dedicated to delivering quality education by providing a supportive and well-equipped learning environment. Classrooms are spacious, well-lit, and ventilated, creating a comfortable space that enhances student focus and engagement. Each room is fitted with modern teaching tools such as smart boards, projectors, and audio-visual systems to promote interactive learning. Ergonomic seating and digital resources further support blended learning methods, helping students better understand complex concepts. Additionally, advanced laboratories and up-to-date computing facilities are available to meet the academic needs of both students and faculty.



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## Attached medical college laboratories

S.No.	Resource	Number
1	Anatomy lab	1
2	Physiology lab	1
3	Biochemistry lab	1
4	Pharmacology lab	1
5	Microbiology lab	1
6	Pathology lab	1

Well-equipped laboratories are essential for connecting theoretical learning with practical application. Students benefit from dedicated labs in physics, chemistry, and biology, all equipped with modern instruments for hands-on experiments. These facilities help reinforce classroom concepts and build practical skills. Technical labs include advanced machines for applied learning, while health science labs provide realistic simulations that prepare students for real-world clinical and research settings.

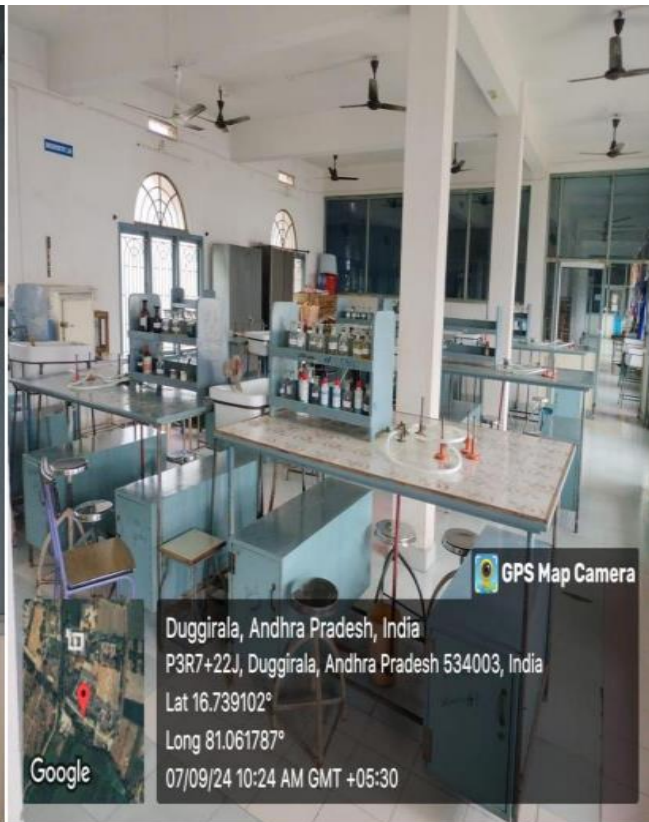




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## 4.1.2 The institution has adequate facilities to support physical and recreational requirements of students and staff – sports, games (indoor, outdoor), gymnasium, auditorium, yoga centre, etc. and for cultural activities

The institution's dedication to holistic development

### List of available sports & cultural facilities

S. No	Facility	Number
1.	Volley ball	3
2.	Basket ball	6
3.	Foot ball	2
4.	Cricket	3
5.	Throwball	2
6.	Badminton	4
7.	Table tennis	1
8.	Carroms	4
9.	Chess	6
10.	Gym rooms	1
11.	Outdoor auditorium	1
12.	ICT enabled Mini auditorium	1

The institution is committed to holistic development by providing facilities that support the physical and recreational well-being of students and staff. These include well-maintained sports grounds, indoor and outdoor gaming areas, a fully equipped gymnasium, a large auditorium, a dedicated yoga center, and spaces for cultural activities. Outdoor sports facilities include fields for football, cricket, and athletics, while indoor areas support games like badminton, table tennis, and chess. Regular sports events and tournaments are held to encourage participation and promote a healthy, active lifestyle.



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The institution promotes physical and mental well-being through dedicated fitness and wellness facilities. A fully equipped gymnasium with modern fitness machines is available for students and staff, supported by professional trainers who guide structured workout routines. In addition, a yoga center offers a calm space for practicing meditation and relaxation techniques, with regular sessions led by trained instructors to encourage mindfulness and stress management.





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The institution features a spacious auditorium equipped with advanced audio-visual systems to host academic and cultural events. Dedicated spaces for music, dance, and theater are also provided, encouraging students to take part in extracurricular activities that foster creativity, self-expression, and holistic development.





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## 4.1.3 Availability and adequacy of general campus facilities and overall ambience

BOYS HOSTEL FACILITIES	CAMPUS FACILITIES
Office	Staff quarters
Drinking water	Rainwater storage
Dining hall	Solar panels
Badminton court	Water treatment & rainwater harvesting plant
Table tennis court	Sewage treatment plant
Parking lot	Generator
TV room	Bank
GIRLS HOSTEL FACILITIES	Canteen
Office	Post box
TV	Signage
Dining hall	Toilets
Parking lot	CCTV surveillance
Visitors room	

The institution is committed to providing a well-maintained, student-friendly campus that enhances both academic and extracurricular experiences. The campus includes administrative buildings, faculty offices, hostels, cafeterias, and green spaces that foster a motivating atmosphere for students and staff. It is equipped with lecture halls, study lounges, seminar rooms, and a library with extensive resources to support learning. Essential amenities like clean drinking water, sanitation, medical aid, and transport services are readily available. The campus is aesthetically designed with landscaped gardens, open-air seating areas, and eco-friendly initiatives to promote sustainability and well-being. Smart classrooms, Wi-Fi zones, and digital learning spaces ensure technological integration. The campus prioritizes security with 24/7 surveillance, dedicated personnel, and accessibility features for differently abled individuals, creating a safe and inclusive environment. Overall, the institution's ambience reflects its commitment to academic excellence, innovation, and student well-being.



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## 4.1.4 Average percentage of expenditure incurred, excluding salary, for infrastructure development and augmentation during the last five years.

### Average Percentage of Expenditure for Infrastructure Development and Augmentation

The institution is dedicated to continuous infrastructure improvement through strategic financial planning, allocating a significant portion of its budget over the past five years to enhance academic buildings, laboratories, digital learning resources, and recreational facilities. These investments provide state-of-the-art facilities for students and faculty, fostering innovation, supporting advanced research, and enhancing the overall learning experience. Regular audits and transparent budget allocation ensure efficient use of funds and the maintenance of high-quality infrastructure. This financial commitment contributes to long-term sustainability, improved education, and a conducive environment for academic excellence.

YEAR	2021-22	2020-21	2019-20	2018-19	2017-18
Amount in Lakhs	95	65	80	300	80
Total Expenditure excluding salary yearwise	90.66	61.6	77.81	298.85	74.94

Year	2023-24	2022-23	2021-22	2020-21	2019-20
Budget Allotted	95	65	80	300	80
Expenditure for Infra Augmentation Amount in Lakhs	90.66	61.61	77.81	298.85	74.94



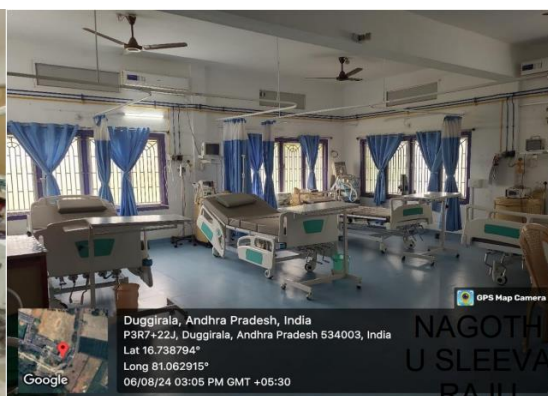


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## 4.2.1 Teaching Hospital, equipment, clinical teaching-learning and laboratory facilities are as stipulated by the respective Regulatory Bodies

PATIENT CARE	TEACHING-LEARNING
Specialty clinics	UG and PG Clinics
Mobile dental van	Central library
Major and Minor OT	Department libraries
Implant clinic	Preclinical and clinical laboratories
Geriatric clinic	Ceramic laboratories
Tobacco Cessation Center	Acrylic laboratories
Comprehensive clinic	Major and Minor OT
	Clinical and laboratory equipment
	Clinical research department







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The institution's teaching hospital is fully equipped to offer high-quality medical education and clinical training. It features state-of-the-art diagnostic, surgical, and patient care facilities, all compliant with governing regulations. Clinical learning is supported by well-maintained laboratories, simulation centers, and patient wards, where students gain hands-on experience under the guidance of experienced faculty. The hospital is outfitted with modern medical instruments, providing students with real-world clinical exposure. Additionally, advanced laboratory facilities support research and skill development, while the hospital infrastructure and equipment are regularly updated to meet the latest healthcare standards and technological advancements.



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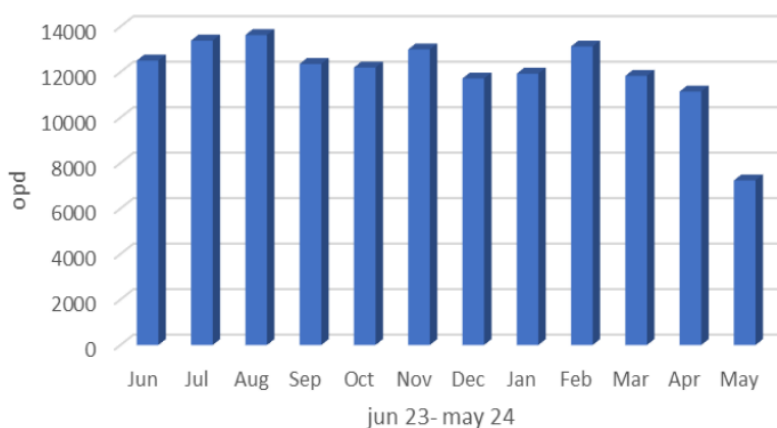
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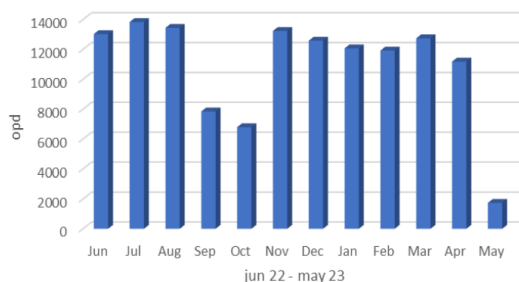
## 4.2.2 Average number of patients per year treated as outpatients and inpatients in the teaching hospital for the last five years

Year	Number of outpatients treated	Student: Patient ratio	Number of inpatients treated	Student: Patient ratio
2023-24	144050	1:427	42	1:10
2022-23	130382	1:377	53	1:13
2021-22	90427	1:245	40	1:10
2020-21	80025	1:209	41	1:10
2019-20	140114	1:355	48	1:12

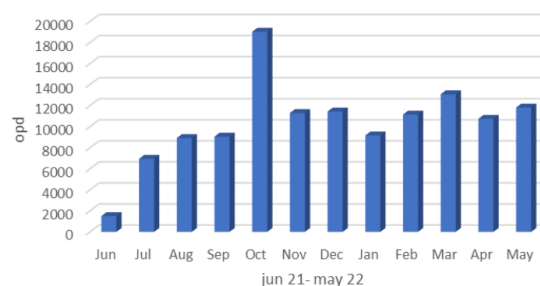
2023-24



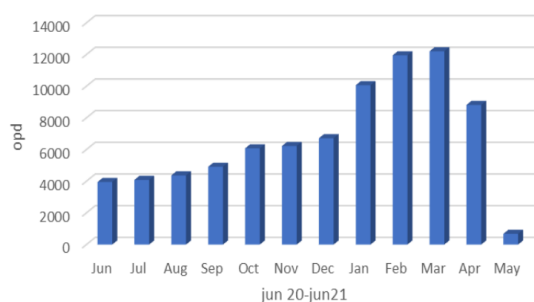
2022-23



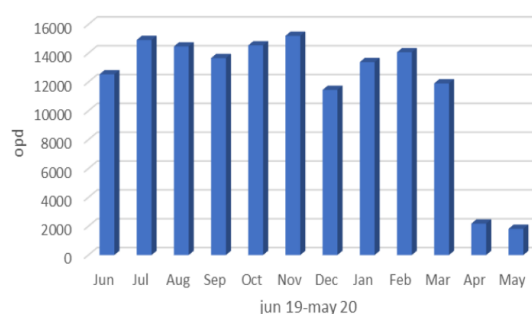
2021-22



2020-21



2019-20





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The teaching hospital of our institution serves as a center of excellence, combining quality medical education with high-standard patient care. Over the past five years, it has handled an average of 100,000 outpatients and 20,000 inpatients annually, reflecting its wide reach and trust within the community. Outpatient services include general and specialist consultations, diagnostic tests, and minor procedures, providing rich clinical exposure for students. Inpatient care is supported by well-equipped wards, ICUs, surgical theaters, and specialized units for comprehensive treatment. Complementing these services, the hospital's laboratories are fitted with advanced instruments that support research and hands-on learning, allowing students to apply theoretical knowledge in real-world settings and build essential clinical skills.



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## 4.2.3 Average Number of Students per Year Exposed to Learning Resources

Learning resources	2023-24		2022-23		2021-22		2020-21		2019-20	
	No. of UG	No. of PG	No. of UG	No. of PG	No. of UG	No. of PG	No. of UG	No. of PG	No. of UG	No. of PG
Lab resources	247	NA	231	NA	256	NA	262	NA	295	NA
Herbal Garden	82	23	102	30	95	24	113	28	116	24
Animal House	96	56	84	52	98	53	105	51	95	50
Total	425	79	417	82	449	77	480	79	506	74

The institution offers extensive access to hands-on learning resources such as modern laboratories, an animal house, and a herbal garden, enhancing students' practical knowledge and research skills. Each year over the past five years, many students have benefited from these facilities. The laboratories are equipped with advanced instruments that promote scientific exploration and skill development. The animal house provides a controlled environment for students in life sciences and medical fields to conduct research and observations. The herbal garden supports botanical and pharmaceutical education by helping students understand the uses of medicinal plants. Together, these resources play a vital role in reinforcing theoretical learning through practical application, contributing to a well-rounded and research-focused education.





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## 4.2.4 Availability of Infrastructure for Community-Based Learning



The institution has developed strong infrastructure to support community-based learning, enabling students to apply academic knowledge in real-world settings. Key components include mobile healthcare units, which allow students to provide medical services to underserved communities and gain practical experience in diverse environments; rural outreach centers that immerse students in the challenges of rural healthcare and social dynamics; and dedicated on-campus spaces for planning and reflecting on outreach initiatives. Through collaborations with local communities, NGOs, and government agencies, the institution ensures that its programs are socially relevant and impactful. These experiences help students build critical skills such as problem-solving, critical thinking, and empathy—essential qualities for professional success. By bridging academics with societal needs, the institution prepares students to be responsible and capable contributors in their chosen fields.



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## 4.3.1 (QIM) (Library is automated using Integrated Library Management System (ILMS))



ST. JOSEPH ERP

erp.stjosephdentaleluru.com/Li

erp.stjosephdentaleluru.com/Library/BookRecord.aspx

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Book Search by

2023-2024

Acc. No	Title	Author	Subject	Department	Media Type	Status	Acc.No History
conservative dentistry							
S.No.	Media	Acc. No.	Book Title	Author	Joint Author	Publisher	Status
1	B	1321	1569-Guide Book On Preclinical Conservative Dentistry	4633-Karhikeyan		8073	Available
2	B	3571	2062-Pre- Clinical Conservative Dentistry	5354-Vimal K Sikri		8070	Available
3	B	3613	1239-Conservative Dentistry	5095-Ruchi Gupta, Vijay Pakam		8100	Available
4	B	3880	1240-Conservative Dentistry Examination preparation Manual	4459-Gupta, Drakash		8102	Available

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Book Search by

2023-2024

Acc. No	Title	Author	Subject	Department	Media Type	Status	Acc.No History
prosthodontics							
S.No.	Media	Acc. No.	Book Title	Author	Joint Author	Publisher	Status
1	B	1054	2306-Text Book Of Prosthodontics	4831-Nallaswamy		8141	Available
2	B	1176	2306-Text Book Of Prosthodontics	4282-Deepak Nallaswamy		8014	Available
3	B	1177	2306-Text Book Of Prosthodontics	4282-Deepak Nallaswamy		8014	Available
4	B	1178	2306-Text Book Of Prosthodontics	4282-Deepak Nallaswamy		8014	Available
5	B	1179	2306-Text Book Of Prosthodontics	4282-Deepak Nallaswamy		8014	Available
6	B	1241	1440-Essential Of Complete Denture Prosthodontics	5180-Sheldon winkler		8014	Available
7	B	1242	1440-Essential Of Complete Denture Prosthodontics	5180-Sheldon winkler		8014	Available
8	B	1243	1718-Mc Grakens Removable Partial Prosthodontics	4021-Alan B Cars		8014	Available

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## 4.3.2 Library Enrichment Criteria

The image displays four screenshots of the St. Joseph Dental College Library ERP system interface. The top-left screenshot shows the 'Book Search by' page with a table of search results. The top-right screenshot shows the main dashboard with various icons for library functions. The bottom-left screenshot shows the 'Issues And Returns' page with a table of book details. The bottom-right screenshot shows the 'LOGIN | DENTAL-ERP' page with a login form and a background image of the college building.

Sl No	Qty	Book Title	Author	Issue Number	Expiry Date	Status
1	10	1361-Overlays For The Child And Adolescent	4770 Ab. Donald	5196	Available	
2	10	1361-Overlays For The Child And Adolescent (Bk.)	4770 Ab. Donald	5198	Available	
3	10	1361-Overlays For The Child And Adolescent (Bk.)	4770 Ab. Donald	5199	Available	
4	10	1361-Overlays For The Child And Adolescent	4771 Ab. Donald Avery	5192	Available	
5	10	1361-Overlays For The Child And Adolescent	4895-Ralphie Mc Donald			

Books	Books Title	Author	Status
1361-Overlays For The Child And Adolescent	4770 Ab. Donald	Available	
1361-Overlays For The Child And Adolescent (Bk.)	4770 Ab. Donald	Available	
1361-Overlays For The Child And Adolescent (Bk.)	4770 Ab. Donald	Available	
1361-Overlays For The Child And Adolescent	4771 Ab. Donald Avery	Available	
1361-Overlays For The Child And Adolescent	4895-Ralphie Mc Donald		

A well-equipped library is central to academic excellence and research, offering diverse resources that support learning and scholarship. It houses a wide collection of textbooks and reference volumes essential for curriculum support, along with national and international journals that keep students and faculty updated on recent research. Rare books and manuscripts, often of historical or cultural significance, are carefully preserved, while traditional manuscripts have been digitized to ensure wider accessibility and protection of heritage. Discipline-specific resources cater to specialized fields like medicine, engineering, and ancient Indian languages, supporting targeted academic needs. The library also includes special reports from institutional research and administrative bodies, along with a range of other knowledge resources such as e-books, databases, and archival documents. Modern technologies like Online Public Access Catalogs (OPACs) and cloud-based Integrated Library Management Systems (ILMS) enhance user access and efficiency. These systems allow users to search, reserve, and renew materials remotely, while helping librarians manage collections, track usage, and make data-driven decisions. With ongoing integration of AI and machine learning, ILMS continues to evolve, offering personalized recommendations and predictive analytics, ensuring the library remains a dynamic and accessible academic hub.



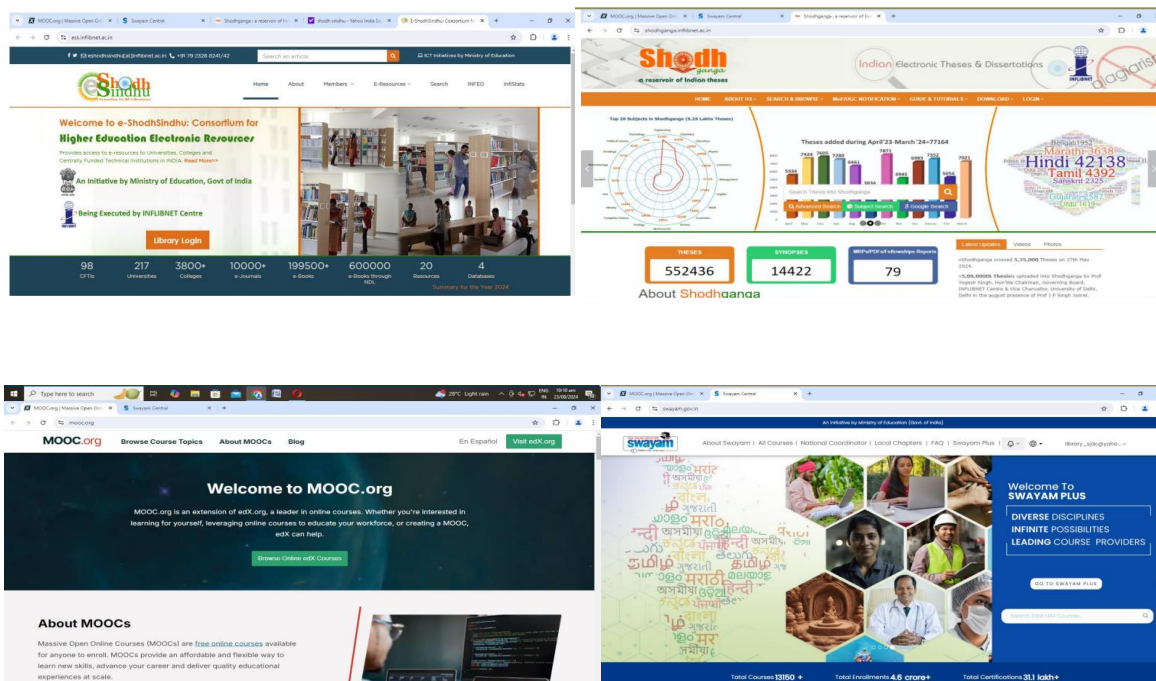


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## 4.3.3 Does the Institution have an e-Library with membership / registration for the following



St. Joseph Dental College, Duggirala, Andhra Pradesh, has developed an e-Library to support academic excellence and research. The institution offers access to several renowned digital platforms, including e-journals and e-books consortia, E-Shodh Sindhu, Shodhganga, SWAYAM, and discipline-specific databases. These resources provide students and faculty with a wide range of scholarly materials, research content, and online courses. The e-Library promotes technology-driven learning, self-study, and professional development. With remote access available, users can conveniently explore educational content anytime, anywhere. This initiative reflects the institution's commitment to quality education and aligns with global standards in digital learning.



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## 4.3.4 Average annual expenditure for the purchase of books and journals including e-journals during the last five years

Year	2023-24	2022-23	2021-22	2020-21	2019-20
Amount in Lakhs	3.51	3.54	3.78	2.95	2.66

The average annual expenditure on books, journals, and e-resources over the past five years reflects the institution's commitment to academic enrichment. At St. Joseph Dental College, Duggirala, Andhra Pradesh, the spending trends show a consistent focus on digital learning. The highest book expenditure was recorded in 2021–22 (₹0.801 lakhs), while journal purchases peaked in 2023–24 (₹0.31 lakhs). Notably, no funds were spent on books or journals in 2020–21, possibly due to shifting budget priorities. In contrast, the institution steadily invested in e-journals, with ₹2.95 lakhs allocated annually from 2020–21 to 2023–24, and ₹2.5 lakhs in 2019–20. This consistent digital investment ensures continuous access to academic resources, demonstrating the college's dedication to supporting modern education and research needs.



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**Criterion 4.3.5 Evaluates the in-person and remote access usage of the library, along with learner sessions and library usage programs organized for students and faculty. This ensures that the institution promotes effective utilization of academic resources.**



At St. Joseph Dental College, Duggirala, Andhra Pradesh, the library functions as a vibrant center for learning, offering both in-person and remote access to a wide range of resources. Interactive sessions are conducted to help students engage with library materials, with faculty guidance on referencing and research strategies. Digital platforms are seamlessly integrated, enabling access to e-books, e-journals, and academic databases from anywhere. The institution also holds regular library orientation programs and workshops to train students in effective search techniques and resource use. These initiatives promote independent learning and academic excellence, empowering both students and faculty to fully utilize the library's offerings for education and research.

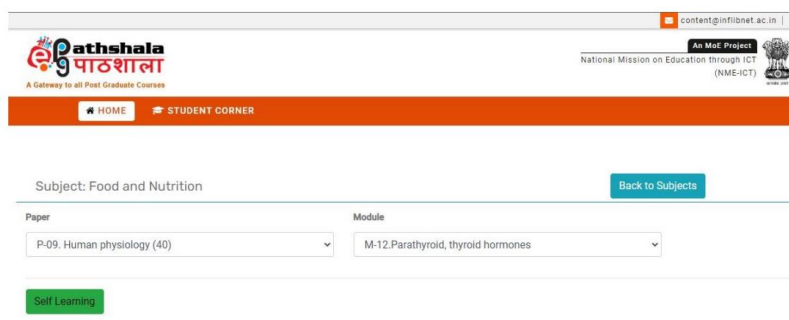
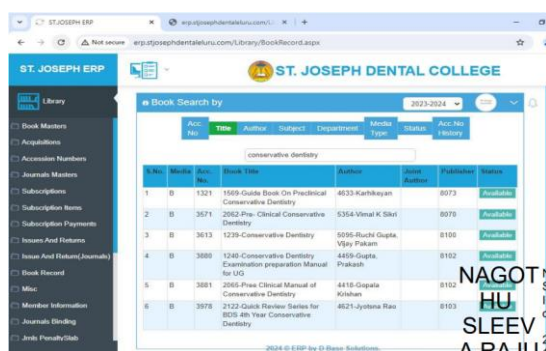
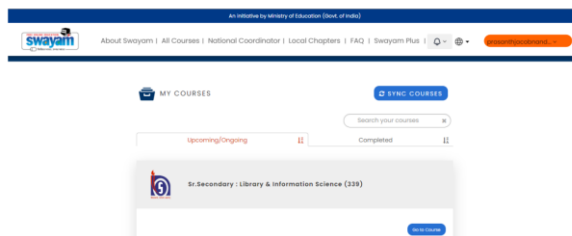
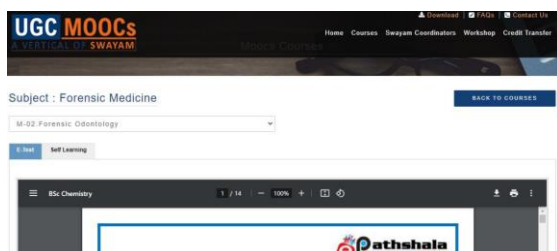


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## 4.3.6 E-content Resources Used by Teachers



At St. Joseph Dental College, Duggirala, Andhra Pradesh, faculty members actively use e-content resources to enhance the teaching-learning process. Platforms like MOOCs offer structured courses with interactive content and assessments, promoting deeper learning. The institution's Learning Management System (LMS) enables faculty to share study materials, assign coursework, conduct quizzes, and monitor student progress. Teachers also utilize e-PG Pathshala for high-quality postgraduate content across various subjects, and access SWAYAM—an initiative providing government-approved online modules in multiple disciplines. These digital tools support modern teaching methods, promote digital inclusion, and make learning more accessible and engaging for students.





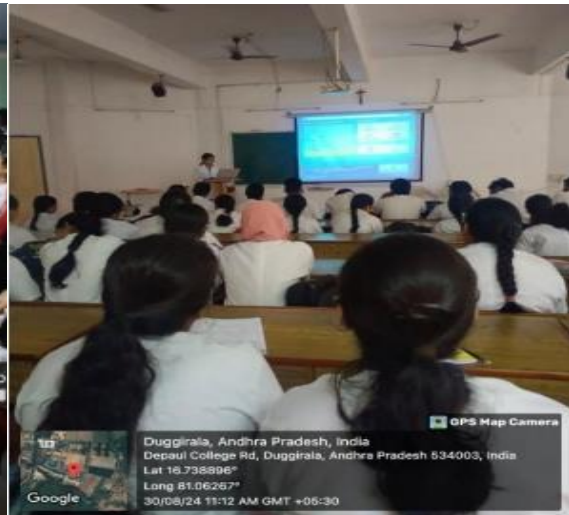
# St. JOSEPH DENTAL COLLEGE

(A Post Graduate Dental Institute)

Duggirala, ELURU – 534 003, Eluru Dt., A.P., IN

## 4.4.1 Percentage of classrooms, seminar halls and demonstration rooms linked with internet /Wi-Fi enabled ICT facilities

Enhancing Digital Learning Environments





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St. Joseph Dental College in Duggirala, Andhra Pradesh, has significantly enhanced its teaching and learning environment by integrating Information and Communication Technology (ICT) across classrooms, seminar halls, and demonstration rooms. Many of these spaces are equipped with air conditioning, computers, LCD projectors, smart boards, and Wi-Fi/LAN connectivity to support a modern, interactive educational experience. Air-conditioned rooms ensure comfort during hot weather, while computers and internet access across key areas enable seamless use of digital learning materials. LCD projectors and smart boards, installed in select rooms including the teleconference room and indoor auditorium, support multimedia-based and interactive teaching. These tools help make lessons more engaging and visually informative. The college continues to improve its ICT infrastructure, with plans to expand the use of smart technology in more classrooms, reinforcing its commitment to quality education through digital innovation.



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## 4.5.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

St. Joseph Dental College, Duggirala, Andhra Pradesh

YEAR	EXPENDITURE (IN ₹ LAKHS)
2021-22	322.84
2022-23	337.10
2023-24	403.25

The planned budget for 2024-25 is expected to further support the development of academic and physical facilities, ensuring a modern and well-equipped campus.

St. Joseph Dental College is strongly committed to maintaining and improving its physical and academic infrastructure, as demonstrated by consistent investment over the past five years. The college has steadily increased its expenditure on infrastructure development, reflecting a proactive approach to enhancing facilities. These investments have enabled the institution to offer state-of-the-art amenities that support quality learning, teaching, and research. By prioritizing modern, well-maintained environments, the college fosters academic excellence and promotes student well-being, reinforcing its reputation as a leading institution in dental education.