

RIT Library & Information Centre

Overview

The M.S. Ramaiah Institute of Technology Library and Information Center, established in 1962, serves as a centralized, air-conditioned, fully automated library with state-of-the-art technological applications.

Located with a carpet area of 1762 square meters, it holds knowledge resources predominantly related to engineering, technology, management, and allied subjects.

Website: <https://www.msritlibrary.org>

Physical Infrastructure and Collection

- Total No. of Books 1,32,762 (43,734+ titles with 1,36,050+ volumes).
- Total No. of Titles 42,799
- Total No. of E-Books 50,683
- Total No. of Reference Books 12,545
- Total No. of e-Journals 7,550 (including IEEE, Elsevier SD, Springer Nature, Emerald, and EBSCO Engg., Suite) and also 21,590 IEEE Conference Proceedings Articles.
- Remote access facility for access e-Resources (Knimbus platform)
- Total No. of CD's, DVD's & VCD's 4,479
- Total No. of Print Journals 114 (111 National, 3 international)
- Total No. of Print Magazines 20
- Newspapers (Daily) in all languages 19
- Total Seating Capacity 1,309
- Total Carpet Area in Sq.Mt. (Main, Unit-2, Apex, MCA, MBA & Architecture Libraries) 1,762 Sq.Mt.
- Binding Section 33 Sq.Mt.
- Total No. of Users (Students & Faculty) 6,714
- Digital Library (600 MBPS) 132 Systems
- Library Management System (ILMS) KOHA-24.05.07 Version
- Catalogue system Web-OPAC (<http://103.16.200.73/>)
- Gate Register (Footfall) Online (Check-in & Check-out)
- Information Organization & Access System DDC-22ED & Open Access

Library Services

- Online Public Access Catalogue (OPAC): Search and locate books and materials.
- Digital Library Access: For e-books, journals, and video lectures.
- Reference & Referral Services
- Reprography (Printing & Photocopy)

- Book Lending: For students and faculty.
- Book Bank: For economically weaker students.

Technological Platforms:

- Knimbus: Remote Access, Federated Search, and M-Library Mobile App (Android & iPhone) available 24X7, for 365 days
- Turnitin – (Anti-Plagiarism Online Tool): 24x7 Access (3800 end users and 78,000 documents)
- Drillbit – (Plagiarism Detection Software): 24x7 Access (One lakh documents)
- Quiklrm: (Language communication Lab) : 30 shared licenses
- IEEE - Blended e-Learning Program (60 Selected Video Courses)
- Grammarly (Writing Tool)

Library working hours

The library will remain open all working days except Government Holidays. The operating hours of the library is as follows:

Working Days and Times	
During Regular days	During SE Examination days
8:00 AM TO 9:00 PM Monday to Friday	8:00 AM TO 11:00 PM Monday to Friday
8:00 AM TO 9:00 PM Saturday	8:00 AM TO 9:00 PM Saturday
9:00 AM TO 4:30 PM Sunday	9:00 AM TO 9:00 PM Sunday

Circulation Hours:

Days	Time
Monday to Saturday	9:00 AM TO 6:00 PM
Sunday	9:00 AM TO 2:00 PM

Terms of reference for borrowing Books:

- The borrowed Books shall not be renewed if any other members reserve the same.
- MSRIT BOOK BANK SCHEME Books, once issued, cannot be renewed.
- SC/ST Books can be returned, re-issued, and renewed at any time during the circulation hours.
- The library may recall any book from any member at any time.
- A fine of Rs.1 per day will be levied on the overdue books.

- No fine will be levied for the late return of Book Bank Scheme books and SC/ST Books.
- The borrower is responsible for any damage or loss to borrowed library documents. In case of any loss of books, damage, or deface, the borrower has to replace a new copy with the latest edition or pay three times the present cost of the book.
- If a book or resource is part of a series or volume, the borrower will be charged for the replacement of the entire set. No exceptions will be made for any concessions.
- CD/DVDs and Periodicals will be issued overnight on demand.
- It is prohibited for members to write or make any marks on books, back volumes, or journals that are taken out for consultation or on loan.
- Cell phones are not allowed in the library. Any violations may result in serious action. Phones must be kept in silent mode while in the library.

About

The "About" section provides a comprehensive overview of the library, its mission, and its team:

- **MSRIT Library** (<https://www.msritlibrary.org/about-msrit-library>): This page describes the library as a "Gateway of Knowledge" established in 1962. It is a centralized, air-conditioned, and fully automated facility spanning 1762 sq. mtrs, primarily housing resources related to Engineering, Technology, Management, and allied subjects. The MSRIT library system is divided into six libraries, along with departmental libraries, all controlled by the Main Library.
- **Vision, Mission & Objectives** (<https://www.msritlibrary.org/about-vision-mission-objectives>): This sub-section details the library's commitment to supporting the research, teaching, and learning needs of the Ramaiah Institute of Technology community. Its vision is to offer comprehensive resources and services, while its mission focuses on understanding user needs, building relevant collections, promoting access to information, and preserving its holdings. The primary objective is to support knowledge management in Engineering, Science, Technology, and related fields.

- **Facilities & Services (<https://www.msritlibrary.org/about-facilities-services>)**: This page outlines the extensive facilities and services provided by the library. Facilities include a Virtual Learning Resource Lab, Institutional Repository, Internet/Wi-Fi access for e-Resources, Maker Spaces, Digital Lending, Smart e-Reading Zone, and access to National Digital Library E-Books. Services range from traditional book issue/return, reference services, and inter-library loan (ILL) to modern offerings like OPAC, information literacy programs, 24x7 remote access, research support, anti-plagiarism checks, and access to previous years' exam question papers.
- **Messages (<https://www.msritlibrary.org/about-messages>)**: I was unable to access the content of this page.
- **Library Team (<https://www.msritlibrary.org/about-library-team>)**: This page introduces the various members of the library team, including the Chief Librarian (Dr. K. R. Mulla), Professional Team (Deputy and Assistant Librarians), Semi-Professional Team (Library Assistants), and Supporting Team (Attenders and Helpers). It often includes images of the staff members.

e-Resources

The "e-Resources" section provides detailed information on the electronic resources available through the library:

VTU Consortium (<https://www.msritlibrary.org/e-resources-vtu-consortium>): This page lists numerous e-journals and e-books accessible via the VTU Consortium.

E-JOURNALS

IEEE - ASPP & POP All

<https://ieeexplore.ieee.org/Xplore/home.jsp>

Subject Categories: CSE, ECE, EEE, EIE, ETE, and other Circuit branches of engineering.

Resource Coverage: Broad range of engineering fields including Aerospace, Bioengineering, Communication, Networking and Broadcast Technologies, Computing and Processing, and more. Also includes 1800+ IEEE Annual Conference Proceedings.

Back Issues: From 2010.

Number of Resources: 222 E-Journals & 1800+ IEEE Annual conference proceedings.

Elsevier Science Direct (e-Journal)

<https://www.sciencedirect.com/>

Subject Categories: Engineering (CS, EE, ME, EC, CV) and allied branches.

Resource Coverage: Artificial Intelligence, Computer Graphics and Computer-Aided Design, Computer Science & IT, Computer Networks and Communications, Signal Processing, and various engineering disciplines.

Back Issues: From 2010.

Number of Resources: 327 E-Journals.

Springer Nature (e-Journals)

<https://link.springer.com/>

Subject Categories: Electrical & Electronics, Mechanical, Civil, Computer Science, Engineering (Allied Subject), Chemistry and Material Science, Mathematics, & Physics.

Resource Coverage: Extensive coverage across all listed subject categories.

Back Issues: From 1997.

Number of Resources: 689 E-Journals.

Emerald: E-Journal

<https://www.emerald.com/insight/>

Subject Categories: Management, economics, commerce, and related fields, covering topics from finance to cybercrime.

Resource Coverage: Accounting, Finance & Economics, Business, Management & Strategy, HR, Learning & Organization Studies, Information & Knowledge Management, Marketing, Operations, Logistics & Quality, Property Management & Built Environment, Public Policy & Environmental Management, Tourism & Hospitality Management.

Back Issues: From 1997.

Number of Resources: 212 E-Journals.

EBSCO: Engineering Suite E-Journals

<https://search.ebscohost.com>

Subject Categories: Engineering, Management, Architecture and its Allied branches.

Resource Coverage: Allied Branches, Architecture, Automobile, Biotechnology, Civil Engg, Chemical, CSE, EEE, ECE, IP, IT, MBA, ME, Nano, Textile, Engg, Science & General.

Number of Resources: 6,100 Full Text E-Journals (Embargo Journals).

E-Books

Springer Nature (e-Books)

<https://link.springer.com/>

Subject Categories: Electrical & Electronics, Mechanical, Civil, Computer Science, Engineering (Allied Subject), Chemistry and Material Science, Mathematics, Physics.

Resource Coverage: Wide range including Computer Science, Engineering, Business and Management, Mathematics, Life Sciences, Physics, and more.

Access: All Books Perpetual Access from 2014.

Number of Resources: 12,862 E-Books.

Taylor and Francis (e-Books)

<https://www.taylorfrancis.com/search?sortBy=relevance&isLicensed=true&key=>

Resource Coverage: General Eng., & Nanotechnology, Allied Science, Civil Engineering, Architecture, Mechanical Engineering, Computer Sciences, Electrical and Electronic Eng.

Access: All Books Perpetual Access from 2014.

Number of Resources: 5,990 E-Books.

Elsevier Science Direct (e-Books)

<https://www.sciencedirect.com/>

Subject Categories: Engineering (CS, EE, ME, EC, CV) and allied branches of Engineering.

Resource Coverage: Architecture, Automobile Engineering, Biomedical Engineering, Biotechnology, Chemical Engineering, Computer Science, Electrical and Electronics Engineering, Mechanical Engineering, and more.

Access: All Books Perpetual Access from 2018.

Number of Resources: 436 E-Books.

PACKT PUBLISHING (E-Books)

<https://www.knimbus.com/#/signIn>

(Use your Remote Access Credentials and click on PACKT e-Books)

Subject Categories: Information technology, including programming, web design, data analysis, and hardware.

Resource Coverage: Engineering and Professional Computers, focusing on practical books and videos for software developers.

Access: All Books Perpetual Access from 2018.

Number of Resources: 5,002 E-Books.

New Age International (E-Books)

<https://digital.elib4u.com/home>

Subject Categories: Engineering (CSE, ME, CV, ECE, EEE) and Allied Science.

Resource Coverage: Common to all, Civil, Computer Science, Electronics & Communication, Mechanical Engineering, Electrical and Electronics Engineering, Chemical Engineering, Aeronautical Engineering, Nanotechnology, BioTechnology, MBA.

Access: All Books Perpetual Access from 2018.

Number of Resources: 220 E-Books.

Cambridge University Press (E-Books)

<https://www.cambridge.org/>

Subject Categories: Engineering and Allied Science.

Resource Coverage: Chemistry, Computer Science, Earth and Environmental Sciences, Engineering, History, Life Sciences, Physics and Astronomy, and more.

Access: All Books Perpetual Access from 2024.

Number of Resources: 58 E-Books.

Cengage Learning (E-Books)

<https://cengageindiaelibrary.ipublishcentral.net/my-library>

Subject Categories: Engineering, Management and its Allied branches.

Resource Coverage: First-Year, Civil, CSE, ECE, EEE, Evn, Maths, MBA, ME.

Access: Subscription up to 2030-31.

Number of Resources: 69 E-Books.

Eduport Global: CBS E-Books

<https://eduport-global.com/>

Subject Categories: Engineering, Architecture, Management and its Allied branches.

Resource Coverage: Agriculture, All Engineering Streams, Architecture / Civil, Biotechnology, Chemical & Chemistry, Civil Engineering, CSE, EEE, Env, Food, Management, Maths, ME, Pharmacy, Physics, Textiles.

Access: Subscription up to 2030-31.

Number of Resources: 174 E-Books.

BSP: E-Books

<https://ebookstore.bspublications.net/library>

Subject Categories: Engineering, Management and its Allied branches.

Resource Coverage: Allied branches of engineering, Biotechnology board, Chemical Engineering Board, Civil Engineering Board, Computer science board, Electrical Engineering Board, Electronics & communication board, Management, Mechanical engineering board, Nanotechnology board.

Access: Subscription up to 2028-29.

Number of Resources: 141 E-Books.

EBSCO Host: E-Books

<https://search.ebscohost.com>

Subject Categories: Engineering, Management, Architecture and its Allied branches.

Resource Coverage: Architecture, Automobile, Biotechnology, Civil Engg, Chemical, CSE, EEE, ECE, IP, IT, ME, Nano, Textile, Engg, MBA, Allied Branches, Others.

Access: Subscription 2024-25.

Number of Resources: 24,280 E-Books.

Mint Books: E-Books

<https://msrit.mintbook.in/>

Subject Categories: Engineering, Management, and Allied Science.

Resource Coverage: Allied Branches of Engineering, Biotechnology, Chemical, Civil, Competitive & Entrance, Computer Science, Electrical and Electronics, Electronics & Communication, Industrial & Production, Information Technology, MBA, Mechanical, Textile.

Access: Subscription 2024-25.

Number of Resources: 1,360 E-Books.

Quicklرن (E-Books)

<https://quicklرن.com/app.php>

Subject Categories: Engineering, Allied Science, and Humanities.

Resource Coverage: First Year, Higher Sem |ECE/EEE, Higher Sem | CSE, MBA.

Access: Subscription 2024-25.

Number of Resources: 91 E-Books.

TECHNO PLATFORMS

IEEE - Blended e-Learning Program

<https://blended-learning.ieee.org/Portal/Organization/IP/VTU046>

Subject Categories: E-Learning Platform.

Resource Coverage: 60 latest technology e-learning Selected Video Courses.

Access: Subscription 2024-25.

Number of Resources: 60 Selected Video Courses.

Quiklrn: (Language communication Lab)

<https://home.quiklrn.com/englishlab/>

Subject Categories: Virtual Lab (English Language Communication Lab).

Resource Coverage: Enhances students' listening, speaking, reading, and writing skills with grammar and vocabulary support. Accessible via institution's public IP and within campus lab.

Licenses: 30 shared licenses per institution.

Program Structure: 6 modules across 20 sessions.

Access: Only Campus Access, Subscription 2024-25.

Drillbit-Plagiarism Detection Software

Subject Categories: Plagiarism Detection Software.

Resource Coverage: Admin control for librarians, 24/7 seamless access, Similarity Index report for individual project reports, articles, and manuscripts.

Access: Subscription 2024-25.

Note: Students and staff need to send similarity report requests to plag.lib@msrit.edu, including Library ID or USN.

Knimbus: Remote Access Solution + mLibrary mobile App

<https://msritb.knimbus.com/user#/home>

Subject Categories: Cloud server along with Universal Federation search services Remote Access Solution + mLibrary Mobile App.

Resource Coverage: Single Login page, Mobile app (IOS Android) access to all Digital Holdings, Embedded Remote Access for Subscribed Publishers, A-Z Cataloging of Subscribed Databases, Federated Searchable database (eBooks/Proceedings-100,000+, Journals-15,000+, videos-1,50,000+, Mooc Courses including NPTEL and MIT Courses-5,000+), Individual Branded eLibrary Portal, Admin Dashboard.

Access: Subscription 2024-25.

- **DELNET** (<https://www.msritlibrary.org/delnet>): This page highlights DELNET (Developing Library Network) as a key resource. It mentions that DELNET offers services like Union Catalogue of Books, Union List of Current Periodicals, Union Catalogue of Periodical Articles, CD-ROM Database, Union List of Video Recordings, Union List of Sound Recordings, Union List of Theses and Dissertations, Union List of Kannada Books, Database of Experts, and Inter-Library Loan & Document Delivery Services (DDDS).

- **Open Access e-Resources** (<https://www.msritlibrary.org/eresources-open-access-e-resources>): This section details various types of freely accessible electronic materials, such as e-books, e-journals, open courseware/video lectures, and open e-theses/dissertations. It also provides links to various open access reference sources.

- **Remote Access** (<https://knimbus.com/user#/home>)

Remote access to library resources enables authorized users (like students, faculty, and researchers) to access a library's digital collections from any location with an internet connection. All Students and Staff Members of RIT can register for remote access with above link and as soon

as got approval by the Library Admin the respective users can access the subscribed resources outside of campus

- **Coursepacks** (<https://www.msritlibrary.org/coursepack>)

Coursepacks at the MSRIT Library and Information Centre are compilations of course materials, specifically curated to provide students and teachers with convenient access to e-resources. These e-resources are directly linked to subjects as per the MSRIT Syllabus, aiming to simplify the process of finding relevant digital content. The library has also organized e-resources subscribed through the VTU Consortium under each subject. Currently, this service is available for First Year students, with future plans to extend it to higher semesters.

- **IR@MSRIT** (<https://www.msritlibrary.org/ir-msrit>)

"IR@MSRIT" refers to the Institutional Repository of the MSRIT Library & Information Centre. An Institutional Repository is a digital service crucial for collecting, preserving, and disseminating the intellectual output of an institution. For MSRIT, this means it serves as a digital archive for scholarly works produced by its community, such as research papers, theses, dissertations, and faculty publications. These repositories play a vital role in preserving an organization's legacy, facilitating digital preservation, and promoting scholarly communication by making research freely accessible. The library provides options to access this repository both on and off-campus.

- **Virtual Labs** (<https://www.msritlibrary.org/virtual-labs>)

Virtual Labs are online simulated laboratory environments or experiments. In an educational context, like at MSRIT, these labs provide students with remote access to practical learning experiences in various disciplines of Science and Engineering. They are designed to complement physical labs, allowing students to conduct experiments virtually, learn at their own pace, and access tools for learning, including web resources, video lectures, and self-evaluation. Virtual labs are particularly beneficial for overcoming limitations such as lack of physical lab facilities, expensive equipment, or safety concerns with hazardous materials. They enable

students to practice experiments multiple times, analyze results, and deepen their understanding of scientific concepts from anywhere with an internet connection. This also helps in reducing costs for educational institutions and enhancing accessibility for a wider range of students.

- **Research Support** (<https://www.msritlibrary.org/research-support>)

The MSRIT Library's "Research Support" section is dedicated to assisting faculty and students with their research and publishing needs. Key offerings include:

- **Open Access (OA) Institutional Membership Programme with Taylor & Francis:** This program provides a 100% waiver of Author Processing Charges (APCs) for RIT faculty members publishing in listed Open Access journals by Taylor & Francis. This encourages open scholarship by removing financial barriers.
- **SCI Indexed Journals Lists:** The library provides lists of Scopus-Quartile and Web of Science-Quartile journals, helping researchers identify high-impact venues for their publications.
- **Plagiarism/Similarity Reports:** To maintain academic integrity, the library offers reports using advanced tools to detect plagiarism. Users can request these by emailing plag.lib@msrit.edu.
- **Reference Management Tools:** Support for tools like Mendeley, Refworks, EndNote, and Zotero is provided to help researchers organize citations and bibliographies efficiently.

Institutional Repository (IR)

- RIT has adopted a new Institutional Repository (IR) Policy proposed by the Library, aimed at enhancing the visibility and accessibility of our research outputs and promoting open access. Access the RIT-IR portal here: <http://cris.msritlibrary.org>. The IR serves as a digital platform to store and showcase scholarly work by our researchers and faculty. This policy will increase visibility, citations, accessibility, and compliance with open-access initiatives.
- **Ask a Librarian** (<https://www.msritlibrary.org/ask-a-librarian>)

"Ask a Librarian" is a common service offered by libraries to provide direct assistance and support to users. This service allows individuals to connect with trained librarians or library staff to get help with a wide range of inquiries. These can include guidance on finding information, conducting

research, navigating databases, evaluating the credibility of sources, and understanding various citation styles (e.g., APA, MLA). It acts as a virtual reference desk, empowering users to make the most of library resources and develop essential information literacy skills. Libraries often offer this service through various channels like chat, email, or submission forms, providing personalized expert guidance.

- **Contact Us** (<https://www.msritlibrary.org/contact-us>)

The "Contact Us" section of the MSRIT Library & Information Centre provides essential contact information for users to get in touch. This typically includes the **Chief Librarian's email address** (chief librarian@msrit.edu). This section ensures that users can easily reach out for general inquiries, specific assistance, or any other communication needs related to the library.

Semester-Wise Resource Guide

First Year (1st & 2nd Semester)

Focus Areas: Foundation courses, Basic programming, Mathematics, Physics, Chemistry

Essential Resources:

Mathematics:

Khan Academy calculus and algebra courses

NPTEL mathematics video lectures

Engineering mathematics textbooks collection

Programming Fundamentals:

CodeAcademy access through library

Programming language reference books

Online coding practice platforms

Physics & Chemistry:

Virtual lab simulations

Interactive periodic table resources

Experiment video demonstrations

Study Materials:

Foundation engineering textbooks

Previous year question papers

Basic programming tutorials

Scientific calculator guides

Second Year (3rd & 4th Semester)

Focus Areas: Core engineering subjects, Data structures, Electronics, Engineering mechanics

Essential Resources:

Data Structures & Algorithms:

GeeksforGeeks premium access

Algorithm visualization tools

Coding interview preparation materials

Electronics:

Circuit simulation software access

Electronic components datasheets

Laboratory manuals and guides

Engineering Graphics:

CAD software tutorials

Technical drawing references

3D modeling resources

Specialized Collections:

Branch-specific core subject textbooks

IEEE conference papers

Technical standards and specifications

Laboratory equipment manuals

Third Year (5th & 6th Semester) - Pre-Placement Focus

Focus Areas: Advanced subjects, Internship preparation, Early placement preparation

Career Resources:

Primary Links:

Placement Preparation: <https://www.msritlibrary.org/prepare-for-placements>

Career Resources: <https://www.msritlibrary.org/career-resources>

Placement Guidance: <https://www.msritlibrary.org/placement-guidance>

Career Planning Resources:

Career Assessment Tools:

CareerExplorer platform access

Pymetrics neuroscience-based career discovery

O*NET OnLine occupational information

JOBehaviors pre-hire assessments

Industry Insights:

Forbes career development articles

Glassdoor engineering skills requirements

Industry trend analysis reports

Emerging technology career paths

Technical Skill Development:

Programming & Software:

Advanced coding platforms

System design resources

Software engineering best practices

Open source contribution guides

Project Management:

Agile methodology resources

Project documentation templates

Team collaboration tools

Fourth Year (7th & 8th Semester) - Placement & Project Focus

Focus Areas: Final year projects, Placement preparation, Graduate studies preparation

Placement Preparation Resources:

Resume Writing:

Templates & Guides:

UC Berkeley resume writing guide

Professional resume templates

Engineering resume examples

ATS-friendly format guidelines

Interview Preparation:

Technical Interviews:

Data structures and algorithms practice

System design interview guides

Coding challenge platforms

Mock interview videos

HR & Behavioral Interviews:

Common interview questions database

STAR method techniques

Company research templates

Salary negotiation guides

Aptitude & Reasoning:

Quantitative Aptitude:

Mathematical reasoning practice

Time and work problems

Profit and loss calculations

Data interpretation exercises

Logical Reasoning:

Pattern recognition tests

Verbal reasoning practice

Analytical reasoning problems

Critical thinking exercises

Communication Skills:

Presentation Skills:

PowerPoint design templates

Public speaking resources

Technical presentation guidelines

Demo preparation materials

Body Language & Soft Skills:

Interview body language tips

Professional communication guides

Group discussion techniques

Leadership skill development

Final Year Project Support:

Research Methodology:

Literature review guidelines

Research paper writing formats

Citation styles (IEEE, APA, MLA)

Statistical analysis tools

Technical Documentation:

Project report templates

Technical writing guidelines

Code documentation standards

Presentation formats

Subject-Specific Resources

Computer Science & Information Science Engineering

Programming Languages: Java, Python, C++, JavaScript resources

Web Development: Full-stack development guides

Database Systems: SQL practice platforms, database design tutorials

Machine Learning: Datasets, algorithm implementations, research papers

Cybersecurity: Security frameworks, ethical hacking resources

Cloud Computing: AWS, Azure, Google Cloud certifications

Electronics & Communication Engineering

Circuit Design: SPICE simulation software, PCB design tools

Signal Processing: MATLAB tutorials, DSP implementations

Communication Systems: Antenna design, network protocols

VLSI Design: Verilog/VHDL resources, chip design tutorials

Embedded Systems: Microcontroller programming, IoT projects

Mechanical Engineering

CAD Software: SolidWorks, AutoCAD tutorials

Manufacturing: Production planning, quality control guides

Thermodynamics: Heat transfer simulations, engine design

Robotics: Automation systems, robotic arm programming

Materials Science: Material property databases, testing procedures

Civil Engineering

Structural Analysis: Software tools (STAAD Pro, ETABS)

Construction Management: Project planning, cost estimation

Environmental Engineering: Sustainability resources, green building

Transportation: Traffic analysis, urban planning resources

Geotechnical: Soil mechanics, foundation design

Emerging Technology Resources

Artificial Intelligence & Machine Learning

Articles & Resources:

Top AI trends and developments

Machine learning algorithm implementations

Deep learning frameworks (TensorFlow, PyTorch)

AI ethics and responsible AI development

Industry applications and case studies

Video Tutorials:

Machine learning roadmap guides

AI project implementations

Neural network architectures

Computer vision applications

Cybersecurity

Current Trends:

Latest cybersecurity threats and solutions

Security framework implementations

Incident response procedures

Penetration testing methodologies

Compliance and regulatory requirements

Cloud Computing & DevOps

Resources:

Cloud service provider comparisons

DevOps pipeline implementations

Container technologies (Docker, Kubernetes)

Infrastructure as Code (IaC)

Monitoring and logging solutions

Internet of Things (IoT)

Materials:

IoT device programming

Sensor networks and data collection

Edge computing implementations

IoT security best practices

Smart city and industrial IoT applications

Company-Specific Preparation Resources

Technology Companies

Google: System design, coding interviews, leadership principles

Microsoft: Technical assessments, behavioral interviews

Amazon: Leadership principles, customer obsession focus

Apple: Design thinking, innovation focus

Meta: Social impact, technical challenges

Consulting Firms

McKinsey, BCG, Bain: Case study methodologies

Deloitte, PwC, KPMG: Business analysis frameworks

Accenture: Technology consulting focus

Core Engineering Companies

Boeing, Airbus: Aerospace engineering focus

General Electric: Industrial engineering applications

Siemens: Automation and control systems

Toyota, Honda: Automotive engineering

Online Learning Platforms Access

Free Platforms:

Coursera: University courses and specializations

edX: MIT, Harvard, and other top university courses

Khan Academy: Comprehensive math and science courses

YouTube Educational Channels: 3Blue1Brown, MIT OpenCourseWare

Premium Platform Access:

LinkedIn Learning: Professional skill development

Pluralsight: Technology and software development

Udemy: Practical project-based learning

Skillsoft: Enterprise learning platform

Research and Publication Support

Research Paper Writing

Academic Writing Resources:

Research methodology guides

Literature review techniques

Data analysis and interpretation

Academic citation formats

Publication Venues

Conference Databases:

IEEE conference listings

ACM symposiums

International conference calendars

Paper submission guidelines

Thesis and Dissertation Support

Formatting Guidelines:

University thesis format requirements

Bibliography management tools

Plagiarism detection services

Defense presentation templates

Digital Library Usage Guidelines

Access Methods:

1. **On-Campus Access:** Direct access through library computers
2. **Remote Access:** VPN connection required for off-campus use
3. **Mobile Access:** Library mobile app available
4. **Guest Access:** Limited resources for visitors

Search Strategies:

Boolean Search: Using AND, OR, NOT operators

Advanced Filters: Date range, document type, author filters

Citation Tracking: Following research citation chains

Alert Services: Automated updates for new research

Contact Information and Support

Library Staff Contact:

Head Librarian: [Contact details]

Reference Desk: [Phone and email]

Technical Support: [IT help desk information]

Research Support Specialist: [Research assistance contact]

Physical Location:

Address: M.S. Ramaiah Institute of Technology, MSR Nagar, Bengaluru

Building: Central Library Building

Floors: Ground floor - circulation, First floor - reference, Second floor - digital resources

Frequently Asked Questions (FAQs)

General Library Use:

Q: How do I get library access? A: All current MSRIT students and faculty have automatic library access

using their college ID cards.

Q: Can I access digital resources from home? A: Yes, use the remote access service at

<https://www.msritlibrary.org/remote-access> with your college credentials.

Q: How many books can I borrow? A: Students can typically borrow 3-5 books for 15 days, renewable if

no holds exist.

Research Support:

Q: How do I get help with research? A: Use the "Ask a Librarian" service at

<https://www.msritlibrary.org/ask-a-librarian> for immediate assistance.

Q: Where can I find previous years' projects? A: Check the Institutional Repository (IR@MSRIT) for

archived student projects and thesis work.

Placement Preparation:

Q: What placement resources are available? A: Visit <https://www.msritlibrary.org/career-resources> for

comprehensive career guidance, resume help, and interview preparation.

Q: Are mock tests available? A: Yes, access online mock tests through

<https://www.msritlibrary.org/prepare-for-placements>

Technical Issues:

Q: I can't access a database. What should I do? A: First check your internet connection and VPN if offcampus.

Contact technical support if issues persist.

Q: How do I cite sources properly? A: The library provides citation guides for IEEE, APA, and MLA

formats through the research support section.

Additional Services

Document Delivery:

Inter-library loan services

Document scanning and delivery

International database access requests

Training Programs:

Information literacy workshops

Database usage training

Research methodology seminars

Citation management tool training

Special Collections:

Rare books and manuscripts

Historical engineering documents

Alumni thesis collection

Industry partnership materials

This knowledge base should enable your RAG chatbot to provide comprehensive, accurate, and helpful

responses to students across all semesters and disciplines at MSRIT. The information is structured to be

easily searchable and includes direct links to specific resources based on student needs and academic

progression.

Previous Year Papers:

Access a collection of previous years' question papers from the MSRIT Library:

[Google Drive - Previous Year Papers:](https://drive.google.com/drive/folders/1FDy6mEK5kV3Jost-dsjdoZUoTHowq2om)
<https://drive.google.com/drive/folders/1FDy6mEK5kV3Jost-dsjdoZUoTHowq2om>

MSRIT LIBRARY BEST PRACTICES

Here's the extracted data from the provided text, categorized for clarity:

Gateway to information

1. News of the Day (Newspaper Clippings) -
<https://www.msritlibrary.org/newspaperclippings>

This section likely provides access to compiled newspaper clippings relevant to the institute, education, technology, or general news.

This allows users to quickly review daily news highlights without having to browse through full newspapers.

2. Articles of the Month - <https://www.msritlibrary.org/articles-of-the-month>

This resource likely offers curated articles of particular interest, potentially focusing on academic research, industry trends, or significant events within the month.

It serves as a filter to highlight important content for users.

MSRIT resources

3. MSRIT e-Learning - <https://www.msritlibrary.org/msrit-e-learning>

This refers to the institute's e-learning center, a state-of-the-art facility for online education.

It features two dedicated studios with interactive panels, chroma screens, and PTZ cameras for recording and live streaming classes.

Resource persons have access to individual video monitors for better interaction and podiums with digital tablets for annotations.

The center focuses on providing exceptional online learning experiences and ensuring seamless knowledge transfer to students worldwide.

4. MSRIT @NEWS - <https://www.msritlibrary.org/msrit-at-news>

This section serves as a portal for news and updates specifically related to MSRIT, covering events, achievements, and announcements.

The institute publishes a quarterly news bulletin called Sampige, which details departmental activities and the achievements of faculty and staff.

It aims to provide a snapshot of the various activities at the institute and serves as an effective communication tool for parents and stakeholders.

5. MSRIT Innovations - <https://www.msritlibrary.org/svce-innovations>

This initiative fosters innovation, start-ups, intellectual property rights (IPR), and entrepreneurship within the campus.

It operates under the aegis of the Institute's Innovation Cell (IIC) and collaborates with globally reputed organizations.

The institute has established Ramaiah Evolute, a Section 8 Company, to provide infrastructure and support for innovation and start-ups.

MSRIT also seeks funding from various agencies to support innovation and prototyping.

The vision is to introduce a culture of entrepreneurship and strengthen technical education, leading to economic and social growth.

Academic & research resources

6. SCI Indexed Journals List - <https://www.msritlibrary.org/scopus-indexed-journals>

This resource provides a list of academic journals included in the Science Citation Index (SCI), which are recognized for their high quality and impact in scientific research.

These journals are essential for conducting literature reviews, staying updated on the latest discoveries, and citing reliable sources in academic work.

SCI-indexed journals are also considered in institutional rankings and research performance assessments.

7. Source Code Repositories - <https://www.msritlibrary.org/source-code-repositories>

This section provides access to a list of source code repository sites, such as GitHub, GitLab, and Kaggle.

These platforms allow developers to store and manage code, track changes, and collaborate on projects.

Repositories are crucial for developing new features, fixing bugs, maintaining code quality, and ensuring historical tracking and auditing in projects like microservices.

8. Coursepacks (Study Materials) - <https://www.msritlibrary.org/coursepack>

Coursepacks refer to compiled study materials, including program structure, course details, and outcomes for various programs.

These resources help students understand the curriculum and prepare for their studies, including information on modern tool usage, societal impact, and sustainability in engineering practices.

9. Open Data Portals - <https://www.msritlibrary.org/open-data-portals>

Open data portals provide access to a collection of datasets available for public use.

For example, the Open Government Data Platform India facilitates open access to shareable government data in machine-readable formats.

These datasets can be used by students, academia, business professionals, and civil society for research, development, and informed decision-making.

Career & development

10. Placement Guidance - <https://www.msritlibrary.org/placement-guidance>

This section offers guidance and resources to students seeking employment through campus placements.

It includes information on placement rules, registration, and the placement process, which begins around the fourth week of September each year.

Students are advised to prepare their resumes highlighting internships and extracurricular activities.

The placement department also provides training in areas like personality development, aptitude tests, and interview techniques.

11. STEPS for Competitive Exams - <https://www.msritlibrary.org/competitive-exam-materials>

This resource provides study materials and guidance to students preparing for competitive examinations.

It aims to support students in their pursuit of further education or career opportunities requiring such exams.

Other categories

12. Funding Agencies - <https://www.msritlibrary.org/fundig-agencies>

This section provides information on funding agencies relevant to research and development.

It helps researchers identify potential sources of funding for their projects and collaborations with external agencies.

13. Technology Innovations - <https://www.msritlibrary.org/technology-innovations>

This resource aims to update users on recent technological innovations across various sectors like healthcare, agriculture, manufacturing, civil engineering, smart automation, and business.

It highlights emerging technologies like artificial intelligence, cryptocurrencies, advanced automation, deep learning, and quantum computing, and their impact on the world.

14. Business Case Studies - <https://www.msritlibrary.org/business-case-studies>

This section offers business case studies, providing real-world examples for students and faculty to analyze and learn from.

This approach is used to engage students in active learning, critical thinking, and developing sensitivity to social and environmental issues.

For instance, one case study involves MITTI Social Initiatives Foundation: Scaling New Heights, available through Ivey Publishing.

Recent Publications

A digital scrolling display of recent faculty journal publications of RIT Staff and Students.

Quick Links

Library Hand Book

The link provided directs to a **flip-book version of the MSRIT Library Handbook**. This handbook serves as a comprehensive guide for users of the MSRIT Library. It typically outlines the library's resources, services, rules, regulations, and facilities. Users can navigate through its digital pages to understand how to access different collections (physical and digital), borrowing procedures, reference services, and other essential information for effective library utilization.

URL: <https://heyzine.com/flip-book/6ab95353bc.html>

Previous Question Papers

This URL leads to a **Google Drive folder containing previous question papers**. This is an invaluable resource for students preparing for examinations. It provides access to past exam questions, allowing students to understand the format, common topics, and difficulty level of tests. This aids in effective revision and exam strategy. The content is likely organized by subject or semester for easy navigation.

URL: <https://drive.google.com/drive/folders/1FDy6mEK5kV3Jost-dsjdoZUoTHowq2om?usp=sharing>

MSRIT News @ e-Media

This link takes you to the **official YouTube channel for Ramaiah Institute of Technology**. This channel serves as a primary platform for MSRIT to share news, events, campus life, achievements, and other relevant information through video format. It's a key component of the institute's e-media presence, offering a dynamic way for the community and the public to stay updated on MSRIT activities.

URL: <https://www.youtube.com/c/ramaiahinstituteoftechnology>

OSS Provided by AICTE

This link points to a section on the MSRIT Library website concerning **commercial software and Open Source Software (OSS)**. This resource likely details various software tools available to students and faculty, including

those that are open source. "OSS Provided by AICTE" suggests that the All India Council for Technical Education (AICTE) promotes or facilitates the use of certain open-source software for educational purposes, which the MSRIT Library makes accessible to its users. Open Source Software is crucial for learning and development as it allows for free use, modification, and distribution.

URL: <https://www.msritlibrary.org/commercial-softwares-oss>

National Archives of India

This URL directs to the **official website of the National Archives of India (NAI)**. The NAI is the repository of the non-current records of the Government of India and holds millions of files, documents, maps, and other historical records. This link provides researchers and students with access to a vast collection of primary sources for historical, social, and political research related to India.

URL: <https://nationalarchives.nic.in/>

Repositories

This URL leads to "**Abhilekh Patal**," the digital portal for Indian archives. This platform provides access to digitized records from various Indian archives, including the National Archives of India. It serves as a centralized digital repository, making historical documents and records more accessible to researchers, scholars, and the general public online, facilitating historical research and study.

URL: <https://www.abhilekh-patal.in/>

Shodhganga@MSRIT

This link leads to the specific **MSRIT collection within Shodhganga**, a national repository of Indian Electronic Theses and Dissertations (ETDs) maintained by INFLIBNET Centre. This resource provides access to the full-text versions of doctoral theses submitted by researchers from MSRIT. It is vital for academic research, allowing users to explore the original research work conducted by scholars at MSRIT and across India.

URL:

https://shodhganga.inflibnet.ac.in/handle/10603/448987?subject_page=1

Library Login Account

This portal for the MSRIT Library's login system or Online Public Access Catalog (OPAC). Students and faculty would use this to log into their library accounts, access personalized services, check borrowing history, renew books, or access specific e-resources that require authentication.

URL: <http://103.16.200.73/>

Useful Links

This page typically compiles a curated list of external websites and resources that are beneficial for academic, research, and general knowledge purposes. These links can range from academic databases, research tools, and open educational resources to career guidance portals, providing a convenient starting point for users seeking diverse information.

- **URL:** <https://www.msritlibrary.org/useful-links>

AICTE - OER

This URL points to a section on the MSRIT Library website dedicated to **e-resources, open access resources, and AICTE-recommended Open Educational Resources (OER)**. OER are freely accessible, openly licensed instructional materials that can be used for teaching, learning, and research. AICTE promotes their use to enhance the quality and accessibility of technical education. This page would guide users to various free online courses, textbooks, and other educational materials.

URL: <https://www.msritlibrary.org/e-resources-open-access-erexources-aicte-oer>

Open Access Resources

This link leads to a **Google Drive folder containing various open access resources**. Open Access (OA) refers to research outputs that are freely available online, without subscription or paywall barriers. This folder likely aggregates free academic journals, e-books, and other scholarly content that the library curates for its users, expanding access to research beyond subscribed databases.

URL: https://drive.google.com/file/d/1_rQfmZd-xZvqRhQDf3idb782rv9UAyjp/view

NDLI

This URL is for the **National Digital Library of India (NDLI)**. The NDLI is a virtual repository of learning resources, a single-window platform that collects and collates metadata from leading learning institutions in India and abroad. It aims to provide a framework of educational materials for all academic levels, from primary school to postgraduate studies, across various disciplines in multiple languages.

URL: <https://ndl.iitkgp.ac.in/>

Directory of Conferences

The URL provided for "Directory of Conferences" is the same as the "Useful Links" page on the MSRIT Library website. It's highly probable that this "Useful Links" page contains a section or specific links to **directories of academic conferences**. Such directories are valuable for faculty and researchers looking for opportunities to present their work, network with peers, and stay updated on the latest developments in their fields.

URL: <https://www.msritlibrary.org/useful-links>

Resources to Follow



<https://www.msritlibrary.org/open-online-courses>

A massive Open Online Courses is an online course platform aimed at unlimited participation & open access via the web. In addition to traditional course materials, such as filmed lectures, readings, and problem sets, many MOOCs provide interactive courses with user forums.



<https://ndl.iitkgp.ac.in/>

National Digital Library

The National Digital library of India is a virtual repository of learning resources which is not only just a repository with a search/browse facilities but also provides a host of services containing textbooks, articles, videos, audio books, lectures, simulations, fiction for user community.



<https://elearning.vtu.ac.in/>

VTU e-Learning Centre

The VTU e-Learning Centre was established in August 2003 in Mysuru with the main aim of facilitating distance education and training to the students and faculty of VTU through satellite and web.



<https://www.khanacademy.org/>

KHAN Academy

Khan Academy is an American non-profit educational organization created in 2008 by Salman Khan. Its goal is creating a set of online tools that help educate students. The organization produces short lessons in the form of videos. Its website also includes supplementary practice exercises.



<https://www.msritlibrary.org/mhrd-ict-initiatives>

ICT Initiatives of MHRD

ICT Initiatives of MHRD Unique ideas, concepts and information without duplication.



<https://www.refseek.com/directory/>

RefSeek

RefSeek is an academic search engine designed specifically for students and researchers. RefSeek searches more than one billion documents, including web pages, books, encyclopedias, journals, and newspapers.



http://172.1.22.22:8080/#library_id=Calibre_Library&panel=book_list

Calibre

10,000+ e-Books are available on Calibre - eBook Management platform in MSRIT Library. These e-Books can be accessed within the campus only.



<https://www.india.gov.in/>

National Portal of India

It presents information resources and online services from government sources, accessible from a single point. The portal has been developed as a Mission Mode Project under the National E-Governance Plan of the government.



NPTEL

<https://archive.nptel.ac.in/course.html>

NPTEL Course Materials

Largest online repository in the world of courses in engineering, basic sciences and selected humanities and social sciences subjects.



<https://www.bis.gov.in/>

BIS

BIS is the National Standard Body of India established under the BIS Act 2016 for the harmonious development of the activities of standardization, marking and quality certification of goods and for matters connected therewith or incidental thereto