

Library Subject Guide – Electrical & Electronic Engineering

UOW Malaysia KDU Library collections can be found via Library catalogue either in print or electronic.

1) Quick Guide

1.1 Call number

Call numbers for Electrical and Electronic Engineering (TK1-9971):

Call number	Subject
TK1-9971	Electrical engineering. Electronics. Nuclear engineering
TK301-399	Electric meters
TK452-454.4	Electric apparatus and materials. Electric circuits. Electric networks
TK1001-1841	Production of electric energy or power. Powerplants. Central stations
TK2000-2891	Dynamolectric machinery and auxiliaries - Including generators, motors, transformers
TK2896-2985	Production of electricity by direct energy conversion
TK3001-3521	Distribution or transmission of electric power
TK4001-4102	Applications of electric power
TK4125-4399	Electric lighting
TK4601-4661	Electric heating
TK5101-6720	Telecommunication - Including telegraphy, telephone, radio, radar, television
TK7800-8360	Electronics
TK7885-7895	Computer engineering. Computer hardware
TK8300-8360	Photoelectronic devices (General)
TK9001-9401	Nuclear engineering. Atomic power
TK9900-9971	Electricity for amateurs. Amateur constructors' manuals

1.2 Location of the Call Number

The above call number of books of subject Electrical and Electronic Engineering listed in UOWM KDU Library. The books are mainly located at:

- Open Shelf (Teo Soo Pin Library, Glenmarie – Second Floor)

1.2.1 Search and locate Library materials

User can search the titles by using our webPAC (Web Public Access Catalogue) as a tool to locate what is in the Library. You search a catalogue to see what a library has and to know where to locate the item required.

Access to our webPAC with the link below:

<http://webpac.kdu.edu.my/search/query?theme=kdu>

Users can also use Advance Search if they have the information of the “Title” and “Author” of the book, or either one.

<http://webpac.kdu.edu.my/search/advanced?theme=kdu>

1.3 Search Guides

The following links will assist you to access the several guides on how to use:

- Web Public Access Catalogue

<https://library.uowmkdu.edu.my/index.php/how-to-use-online-catalogue>

- e-Database search tips

<https://library.uowmkdu.edu.my/index.php/the-e-databases-search-tips>

- Referencing and Citation

<https://library.uowmkdu.edu.my/index.php/referencing>



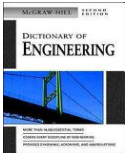

- Subject guide

<https://library.uowmkdu.edu.my/index.php/subject-guides>

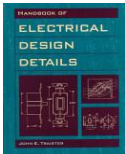

2) Reference


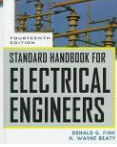

Reference materials such as dictionaries, encyclopaedias, and handbook can only be use inside the library.

2.1 Dictionaries

Image	Title
 <p>No image available</p>	<p>IEEE standard dictionary of electrical and electronics terms by Institute of Electrical and Electronics Engineers.</p> <p><i>Call Number: TK9 .Ins 1972</i></p>
 <p>No image available</p>	<p>McGraw-Hill dictionary of electrical and electronic engineering / by Sybil P. Parker (editor in chief)</p> <p><i>Call Number: TK9. Macg 1984</i></p>
	<p>McGraw-Hill dictionary of engineering / by McGraw-Hill</p> <p><i>Call Number: TA9 .Macg 2003</i></p>
 <p>No image available</p>	<p>The electronics dictionary for technicians / by Tom Adamson.</p> <p><i>Call Number: TK7804 .Ada 1992</i></p>

2.2 Handbooks

Image	Titles
	<p>Handbook of electrical design details / by John E. Traister.</p> <p><i>Call number : TK425.Tra 1997</i></p>
 <p>No image available</p>	<p>Power electronics handbook : devices, circuits, and applications handbook / edited by Muhammad H. Rashid.</p> <p><i>Call number : TK7881.15 .Pow 2011</i></p>

	<p>Electrical engineering materials reference guide / edited by H. Wayne Beaty</p> <p><i>Call number : TK453 .Ele 1990</i></p>
	<p>Standard handbook for electrical engineers / edited by Donald G. Fink, H. Wayne Beaty</p> <p><i>Call number : TK151 .Sta 2000</i></p>
	<p>McGraw-Hill's National electrical code handbook : based on the current 1996 National electrical code / by J.F. McPartland and Brian J. McPartland.</p> <p><i>Call number : TH9115 .Macg 1996</i></p>

2.3 Periodicals (Magazines / Journals)

- IET Digital Library

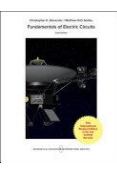
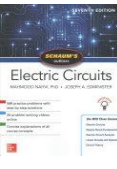
3) Books

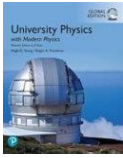
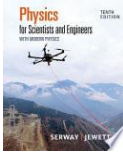
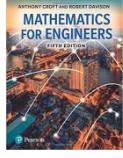
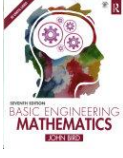

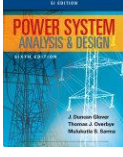
3.1 Library books

Besides searching using Online Catalogue (webPAC), user can also search the titles available under Reading List for Electrical and Electronic Engineering programme.

The link below will lead to the page where user can search using Course ID, Course Name, Programme Name, and Title.

<http://webpac.kdu.edu.my/reserves/search?theme=kdu>

Image	Titles
	<p>Fundamentals of electric circuits / by Charles K. Alexander, Matthew N. O.</p> <p><i>Call number : TK454 .Ale 2017</i></p>
	<p>Schaum's outlines electric circuits / by Mahmood Nahvi, Joseph A. Edminister.</p> <p><i>Call number : TK454 .Edm 2018</i></p>

	<p>Sears and Zemansky's university physics : with modern physics / by Hugh D. Young, Roger A. Freedman ; contributing author, A. Lewis Ford ; SI conversion by Katarzyna Zuleta Estrugo.</p> <p><i>Call number : QC21.3 .You 2020</i></p>
	<p>Physics for scientists and engineers with modern physics / by Raymond A. Serway, John W. Jewett.</p> <p><i>Call number : QC21.3 .Ser 2019</i></p>
	<p>Mathematics for engineers / by Anthony Croft, Robert Davison.</p> <p><i>Call number : QA37.3 .Cro 2019</i></p>
	<p>Basic engineering mathematics / by John Bird.</p> <p><i>Call number : TA330 .Bir 2017</i></p>
	<p>Programmable logic controllers and industrial automation: an introduction / by Madhuchhanda Mitra , Samarjit Sen Gupta.</p> <p><i>Call number : TJ223.P76 Mit 2017</i></p>
	<p>Power system analysis & design / by J. Duncan Glover, Thomas J. Overbye, Mulukutla S. Sarma.</p> <p><i>Call number : TK1005 .Glo 2017</i></p>

3.2 Ebooks

Ebook can be search in webPAC or use the following books collection to search for your topics.

- [ProQuest Ebook Central](#)
- [EBSCOhost eBook Collection](#)
- [JSTOR](#)

3.3 Other open source ebooks resources

➤ **Directory of Open Access Books (DOAB)**

A growing collection of nearly 3000 online, open access scholarly books. The primary aim of DOAB is to increase discoverability of Open Access books. Academic publishers are invited to provide metadata of their Open Access books to DOAB. Metadata will be harvestable in order to maximize dissemination, visibility and impact. Aggregators can integrate the records in their commercial services and libraries can integrate the directory into their online catalogues, helping scholars and students to discover the books. The directory is open to all publishers who publish academic, peer reviewed books in Open Access and should contain as many books as possible, provided that these publications are in Open Access and meet academic standards.

<https://www.doabooks.org>

➤ **BCcampus OpenEd**

Search for quality open textbooks offered in a variety of digital formats; the first step in adopting open educational resources. Search by subject and download them to your computer.

<https://open.bccampus.ca/>

➤ **Ebooks and textbooks from bookboon.com**

Very easy-to-use platform that can be accessed online and offline. All authors are vetted, and the books are peer-reviewed, by the California State University, so it can be assured that all learning content meets the highest quality standards.

<https://bookboon.com/>

➤ **InTech Open**

IntechOpen, the world's leading publisher of Open Access books. Built by scientists, for scientists. The readership spans scientists, professors, researchers, librarians, and students, as well as business professionals. IntechOpen share knowledge and peer-reviewed research papers with libraries, scientific and engineering societies, and also work with corporate R&D departments and government entities.

<https://www.intechopen.com/books>

➤ **LibreTexts**

LibreTexts is a non-profit organization committed to freeing the textbook from the limitations and costs of traditional textbooks. Its open and freely accessible LibreTexts provide a more engaging learning experience for students without the financial burden.

<https://libretexts.org/index.html>

➤ **MIT OpenCourseWare textbooks**

MIT OpenCourseWare (OCW) is a web-based publication of virtually all MIT course content. OCW is open and available to the world and is a permanent MIT activity. The materials served are from 2400 courses with 500 million visitors.

<https://ocw.mit.edu/courses/online-textbooks/>

➤ **Open Textbook Library**

Open textbooks are textbooks that have been funded, published, and licensed to be freely used, adapted, and distributed. These books have been reviewed by faculty from a variety of colleges and universities to assess their quality. These books can be downloaded for no cost or printed at low cost. All textbooks are either used at multiple higher education institutions; or affiliated with an institution, scholarly society, or professional organization. The library currently includes 708 textbooks, with more being added all the time.

<https://open.umn.edu/opentextbooks/>

➤ **Saylor Academy Open Textbooks**

The open textbooks on this page include several titles published through Saylor Academy's Open Textbook Challenge and a collection of titles re-published by Saylor Academy in 2012. These books are available to use, keep, revise, and share under open licenses. Do not have supplements (e.g. lecture slides and question banks) available for these textbooks, but the open online courses are useful teaching tools.

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

➤ **Teaching Commons**

The Teaching Commons showcases high-quality open educational resources from leading colleges and universities and makes them available to educators and students around the world. Curated by librarians and their institutions and hosted by bepress, the Teaching Commons includes open-access textbooks, course materials, lesson plans, multimedia,

lectures, k-12 materials, and more. Educators and researchers can use the Teaching Commons to discover teaching materials, adopt content for their courses, or create and share their own work.

<https://teachingcommons.us/>

4) Subscribed Databases

UOWM KDU Library subscribed databases can be found here:

<https://library.uowmkdu.edu.my/index.php/online-databases>

➤ **EBSCOhost (Academic Search Complete – ASC)**

Designed specifically for academic institutions, ASC is comprehensive, scholarly, and multi-disciplinary with more than 8,500 full-text periodicals, including nearly 7,300 peer-reviewed journals.

➤ **Emerald**

Emerald is a leading scholarly publisher in business and management. This database provides a comprehensive collection of 213 peer-reviewed management journals.

5) Free online resources

Free online resources can be accessed through UOWM KDU library website via this link:

<https://library.uowmkdu.edu.my/index.php/external-links>

5.1 Journals

Journals	Links
AIMS Electronics and Electrical Engineering - AIMS Electronics and Electrical Engineering is an international Open Access journal devoted to publishing peer-reviewed, high quality, original papers in the field of Electronic Engineering. We publish the following article types: original research articles, reviews, editorials, letters, and conference reports.	https://www.aimspress.com/journal/ElectrEng

<p>International Journal of Electrical Engineering & Technology (IJEET)</p> <ul style="list-style-type: none"> - The International Association of Engineering and Management Education (IAEME) is a non-profit international association for the Engineering and management education. IAEME was found by a group of engineers and management professions in 2009. IAEME Publish various journals in Science, Engineering, Technology and Management. 	<p>http://www.iaeme.com/issue.asp?JType=IJEET&VType=7&IType=1</p>
<p>International Journal of Electrical and Electronics Research (IJEER)</p> <ul style="list-style-type: none"> - Articles published in International Journal includes original research papers, informative reviews, letters, short communication, case studies, article of professional interest, technical notes. 	<p>http://www.researchpublish.com/journalss/IJEER</p>
<p>Journal of Electrical and Computer Engineering</p> <ul style="list-style-type: none"> - This journal publishes papers that report advances from across the rapidly moving fields of both electrical engineering and computer engineering. Studies may relate to the design, production, operation, and testing of electrical devices and systems, or the engineering of their hardware, software and networking. 	<p>https://www.hindawi.com/journals/jece/</p>
<p>Advances in Electrical and Electronic Engineering (AEEE)</p>	<p>http://advances.utc.sk/</p>

<ul style="list-style-type: none"> - A peer-reviewed periodical scientific journal aimed at publishing research results of the Journal focus areas. The Journal is published by the Faculty of Electrical Engineering and Computer Science, VSB–Technical University of Ostrava, the Czech Republic. 	
<p>International Journal of Online Engineering (iJOE)</p> <ul style="list-style-type: none"> - The objective of the journal is to publish and discuss fundamentals, applications and experiences in the field of remote engineering, cyber-physical systems, virtual instrumentation and online simulations. The use of virtual and remote controlled devices and remote laboratories is one of the future trend developments for advanced teleworking/e-working environments. 	<p>http://online-journals.org/index.php/i-joe</p>
<p>Journal of Electrical and Electronic Engineering</p> <ul style="list-style-type: none"> - A peer-reviewed open access journal published bimonthly in English-language, aims to foster a wider academic interest in electrical and electronics engineering, including its intersection with physics. 	<p>http://www.sciencepublishinggroup.com/journal/index?journalid=239</p>
<p>International Journal of Electrical Components and Energy Conversion</p> <ul style="list-style-type: none"> - This journal provides a multidisciplinary platform for the discussion of issues arising in the innovation and the development of robust methodologies dedicated to the design, control and 	<p>http://www.sciencepublishinggroup.com/journal/index?journalid=332</p>

<p>optimization of electrical components and systems for varied electric power applications.</p>	
<p>American Journal of Electrical and Electronic Engineering (AJEEE)</p> <ul style="list-style-type: none"> - A peer reviewed, open access journal which provides an international forum for the dissemination of the latest original research, achievements and developments in all areas of electrical and electronic engineering. 	<p>http://www.sciepub.com/journal/AJEEE</p>
<p>Journal of Electrical Engineering (JEE)</p> <ul style="list-style-type: none"> - JEE is published in 4 volumes per year: March, June, September and December. Its scope includes all issues of widespread generic interest to engineers who work in the field of electrical engineering. 	<p>http://www.jee.ro/index.php</p>
<p>International Journal on Electrical Engineering and Informatics (IJEEI)</p> <ul style="list-style-type: none"> - A peer reviewed journal in the field of electrical engineering and informatics. 	<p>http://www.ijeei.org/</p>

5.2 Newspapers / News

News	Links
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<p>EE Times</p> <ul style="list-style-type: none"> - EE Times offers design engineers and management executives news and analysis of the latest technologies and business developments in the global electronics industry. It delivers content about technology, business and the profession that is accurate, insightful, useful and entertaining. 	<p>https://www.eetimes.com/</p>
<p>MIT News</p> <ul style="list-style-type: none"> - MIT News or Massachusetts Institute of Technology News cover the news pertaining electrical and electronic engineering on campus and around the world. 	<p>http://news.mit.edu/topic/electrical-engineering</p>
<p>Science Daily</p> <ul style="list-style-type: none"> - This is a source for the latest research news. It covers various of science and technologies topics with recent articles. 	<p>https://www.sciencedaily.com/terms/electrical-engineering.htm</p>
<p>News 18</p> <ul style="list-style-type: none"> - News18 provide news the news mainly in India region. There are engineering news can be found under the tech section inside News18. 	<p>https://www.news18.com/newsttopics/electrical-engineering.html</p>

5.3 Websites

Websites	Links
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<p>EE Web</p> <ul style="list-style-type: none"> - A study website that provides information on tools, forums and community, design and components, projects and videos, and also articles on electrical and electronic engineering issues. 	<p>https://www.eeweb.com/</p>
<p>Electrical Engineering Portal</p> <ul style="list-style-type: none"> - Lots of different articles on electrical engineering, guides to using electrical software, explanations of various theorems and laws and even research papers – a great public resource for both students and those already graduated. 	<p>https://electrical-engineering-portal.com/</p>
<p>Electrical4U</p> <ul style="list-style-type: none"> - A study site created by experienced engineers in order to help their fellow colleagues. Whatever your question is, you would probably find an answer on this platform. The company provides lots of info regarding electric power, renewable energy (such as solar and wind energy), power distribution and control as well as new technology. 	<p>https://www.electrical4u.com/</p>
<p>Electronicsweekly.com</p> <ul style="list-style-type: none"> - Electronics Weekly is a good resource for those looking for industry-related news. There are topics in business, design, products and all of it is directly related to electrical engineering. You also use it to view available jobs or post jobs yourself. Please have in mind that you need to 	<p>https://www.electronicsweekly.com/</p>

<p>create an account and sign in before you can do this.</p>	
<p>Engineering.com</p> <ul style="list-style-type: none"> - This website provides video tutorials on engineering and its application, explanation of concepts, principles, software tutorials, video shows on interesting discussions. Other interesting features include articles on electronics, 3D printing, software designing, games, puzzles and downloadable material in resource section and library. 	<p>https://www.engineering.com/Blogs/tabid/3207/Default.aspx</p>
<p>EthOS (Open Access Theses)</p> <ul style="list-style-type: none"> - EthOS is e-theses online service. User can search over 500,000 doctoral theses. User can download instantly for research, or order a scanned copy quickly and easily. 	<p>https://ethos.bl.uk/Home.do</p>
<p>Euromonitor International White Papers Archives</p> <ul style="list-style-type: none"> - Euromonitor International is the world's leading independent provider of strategic market research. We create data and analysis on thousands of products and services around the world. 	<p>https://blog.euromonitor.com/white_paper/</p>
<p>Eurostat (Statistical Office of the European Union)</p> <ul style="list-style-type: none"> - Eurostat is the statistical office of the European Union situated in Luxembourg. Its mission is to provide high quality statistics for Europe. While fulfilling its mission, Eurostat promotes the 	<p>http://ec.europa.eu/eurostat</p>

<p>following values: respect and trust, fostering excellence, promoting innovation, service orientation, and professional independence.</p>	
<p>All about circuits</p> <ul style="list-style-type: none"> - There is lots of technical and industry content, video lectures, and worksheets for students and a forum where you can get social and discuss any problem encountered at your studies or work. 	<p>https://www.allaboutcircuits.com/</p>
<p>Instructables circuits</p> <ul style="list-style-type: none"> - This website helps in learning about circuits. Students can learn different kind of circuits, for example in Arduino, computers, electronics, etc. 	<p>https://www.instructables.com/circuits/projects/</p>
<p>Khan Academy</p> <ul style="list-style-type: none"> - This website helps students to learn from basic. There are many topics covered such as Circuit analysis, amplifiers, semiconductor devices, signals and systems, etc. 	<p>https://www.khanacademy.org/science/electrical-engineering</p>
<p>Study Electrical</p> <ul style="list-style-type: none"> - Online platform to help you learn basic and advanced Electrical and Electronics Engineering topics. 	<p>https://studyelectrical.com</p>
<p>PCB Heaven</p> <ul style="list-style-type: none"> - This website is more likely for the beginners in electronic engineering. User may find information about circuits, projects, theory, and experiments. Besides that, blog and forum are also available. 	<p>http://pcbheaven.com/</p>

<p>Wolfram Demonstration Project</p> <ul style="list-style-type: none"> - This site is not only great for electrical engineers but also for students of many other disciplines. Simply choose the subject you are interested in and click on the demonstration of whatever topic you feel unsure about. 	<p>https://demonstrations.wolfram.com</p>
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5.4 Conference Proceedings

Conference Proceedings	Links
<p>MDPI</p> <ul style="list-style-type: none"> - MDPI is an organisational acronym used by two related organisations, Molecular Diversity Preservation International and Multidisciplinary Digital Publishing Institute. The first organisation, Molecular Diversity Preservation International, founded in 1996, is primarily a chemical sample archive, with some scholarly publishing and conference activities. The second organisation, Multidisciplinary Digital Publishing Institute, was founded in 2010, primarily as a publisher. 	<p>https://www.mdpi.com/</p>
<p>MATEC Web of Conferences</p> <ul style="list-style-type: none"> - MATEC Web of Conferences is an Open Access publication series dedicated to archiving conference proceedings dealing with all fundamental and applied research aspects related to Materials science, Engineering and Chemistry. 	<p>https://www.matec-conferences.org/</p>

