



Information Technology for Teachers



MKCL's **MS-ACIT** (IT for Teachers) Course Proposal



About

Maharashtra Knowledge Corporation Limited

Maharashtra Knowledge Corporation Limited (MKCL) is a Public Limited Company promoted by the Department of Higher and Technical Education, Government of Maharashtra. It was incorporated on August 20, 2001, under the Companies Act, 1956.

Its main mission is to create a new paradigm in education and development by bridging the digital divide. It strives to achieve this mission through the universalization and integration of information technology in teaching, learning, skill development, and socio-economic transformative processes in general.

To make the capabilities of MKCL available to all the Departments of the Government of Maharashtra, the governmental coordination of the Company's affairs was handed over from the Department of Higher and Technical Education to the General Administration Department (GAD), effective from January 05, 2018. Subsequently, it was allocated to the Directorate of Information Technology under GAD.

MKCL's Transformative Agenda:

The world is witnessing the rapid emergence of a knowledge-based society and a knowledge-led economy on a global scale. Actionable knowledge is increasingly becoming synonymous with the wealth, welfare, wellness, and progress of individuals, communities, and nations. Livelihoods, self-employment, jobs, careers, enterprises, and industries are all becoming increasingly knowledge centric. The prices of products and services are being determined more by the core knowledge content in producing them than by their material, energy, labor, or financial capital inputs. "Knowledge products" and "productizing knowledge" are becoming new economic megatrends.

Keeping this in view, MKCL is dedicated to bridging the knowledge divide and, consequently, the development opportunity divide faced by the common people in general and youth and school students in particular. MKCL's agenda is, therefore, focused on creating a knowledge-based and value-based paradigm of transformations in **Education, Development, Governance, and Empowerment (Transformative EDGE)** of common people, leading to the creation of individual and social wealth and ensuring individual and social welfare.

By assimilating the fruits of the artificial intelligence revolution, digital technology is increasing its global impact in all aspects of human endeavor by geometric progression. It is unleashing novel development opportunities for those who enjoy digital access. However, it is simultaneously creating new survival challenges for those deprived of digital access.



Information Technology (IT) is a grand confluence of digital computing, communication, and content. It has been transforming almost all aspects of daily life since the early years of the 21st century. The applications of IT are penetrating deeply into all facets of daily life, such as agriculture, manufacturing, and services like telecommunications, media, banking, stock markets, accounting, financial services, insurance, business and commerce, marketing, wholesaling, and retailing, management, education, healthcare, legal affairs, design, fashion, beauty, arts and entertainment, home appliances, transportation, construction, aviation, tourism, hospitality, governance and administration, utilities and facilities, safety and security, disaster management and climate resilience, and both office and remote work.

As a result, most common people in India who are acutely suffering from the socio-economic divide also face the new and equally severe challenges of digital divide, digital deprivation, and digital exploitation. As they are not digitally literate, they are being treated as illiterate, thereby threatening to lose survival and developmental opportunities. The digital divide between those who can enjoy the fruits of rapidly advancing information technology and those who are digitally deprived and, therefore, left out and left behind must be bridged effectively and urgently. Unless these sections of society can bridge the digital divide successfully, they will not be able to overcome the disastrous consequences not only in the knowledge economy and job markets but also in daily life.

It, therefore, becomes essential to pursue a transformative agenda of helping common people bridge the digital divide. Bridging the **digital divide** will enable them to bridge the **knowledge divide** and **development opportunity divide**.

The vision of MKCL, therefore, is to develop education, development, governance, and empowerment systems that are flexible, world-class, and value-based, and responsive to the newly emerging individual and social developmental needs of common people by bridging the digital divide.

MKCL's Mission

The major challenge before MKCL in pursuing this agenda of bridging these new divides is to offer appropriate solutions and services for accessing education, development, governance, and empowerment opportunities that are suitable for the emerging knowledge era. These solutions must be provided to a large and diverse population with world-class quality, at an affordable cost, and with the widest accessibility, from metropolitan areas to rural, tribal, and hilly regions. Additionally, these services need to be delivered in a just-in-time manner and offer a deeply personalized service experience on a mass scale.

In other words, these six simultaneous challenges or mission objectives of MKCL for transformation in the fields of digital literacy, education, development, governance, and empowerment can be summarized as: **Bigger, Better, Cheaper, Faster, Wider, and Deeper!**

MKCL has strategically developed two solutions to effectively respond to these six simultaneous challenges: "Be Smarter" and "Be Wiser." "Be Smarter" involves imaginative, appropriate, and pervasive use of information technology and state-of-the-art actionable knowledge. "Be Wiser" entails forging appropriate partnerships to avoid wasteful reinvention of essentials and optimizing resources through networking.

To grow 'smarter' in solving these challenges, MKCL has recognized, from its inception, the transformative role of information technology as an equalizer, economizer, mass-scale enabler, accelerator, quality enhancer, mass-personalizer, and partner in the form of Artificial Intelligence (AI). MKCL continuously designs, develops, and successfully deploys highly imaginative, pervasive, and appropriate applications of information technology. This includes universalizing digital literacy, developing knowledge-driven digital skills, and enhancing digital employability and entrepreneurship among youth, in addition to various fields of sustainable development, governance, and empowerment. As a result, MKCL has attained a unique identity as an organization capable of universalizing and integrating information technology into all walks of life.

To grow 'wiser' and avoid duplication of expenses and reinvention of essentials, MKCL has forged strategic partnerships with organizations possessing complementary strengths. This networking approach allows for the optimal use of available resources, including infrastructural, financial, human, intellectual, educational, developmental, and organizational resources.

Consequently, MKCL has established itself as an organization capable of universalizing and integrating information technology for effective transformations across various sectors.

MKCL designs, develops, and deploys state-of-the-art eLearning, eGovernance, and eEmpowerment innovations, strategies, models, frameworks, technologies, products, processes, solutions, and services at affordable costs for common people. These offerings are comparable to the globally best available options in terms of architecture, price-to-performance, outreach, customer delight, and environmental sensitivity.

With its range of products and services, MKCL has emerged as a fast-track IT enabler, IT integration partner, business process re-engineering partner, knowledge partner, or digital transformation catalyst for educational institutions ranging from schools to universities, as well as for government, semi-government, and private organizations. MKCL also partners with community development organizations, charitable foundations, and mission mode project organizations.

Based on its unique expertise and experience, MKCL has forged joint ventures and state-wide projects with the governments of Odisha, Haryana, Bihar, Kerala and other States.

MKCL's Strength

During last 25 years, more than 17 million (1.7+ crores) Learners have registered themselves for MKCL's various offerings and have become smart users of IT.

To facilitate such a large number of learners across various parts of the country, MKCL has established about 5,000+ Authorized Learning Centers (ALCs) and their authorized satellite learning centers under its unique public-private-community partnership framework at various Colleges and Schools. This network is coordinated by District and Regional Coordination Units, Training Provider Agencies, Strategic Business Unit (SBU) Coordinators, District Marketing and Placement Executives, Train-the-Trainer Fellows, etc. With the help of these ALCs and their satellites, MKCL offers its services with wide accessibility to the masses in metropolitan areas, cities, semi-urban areas, and rural, tribal, and hilly regions of the state.

MS-ACIT – Empowering Educators in the Digital Era

The **Maharashtra State Advanced Certificate in Information Technology (MS-ACIT – IT for Teachers)** is a specialized program designed to transform teachers and professors into tech-enabled educators. Jointly certified by MSBTE and MKCL, the course equips educators with cutting-edge digital tools, AI-driven teaching techniques, e-content creation skills, and smart classroom management strategies. Through 50 interactive sessions spread over 144 hours, participants gain hands-on expertise in digital pedagogy, online assessment, research tools, and lifelong learning approaches. MS-ACIT bridges the gap between traditional teaching and technology-driven education, empowering educators to create engaging, impactful, and future-ready learning experiences.

In the rapidly evolving digital age, education is undergoing a profound transformation. Teachers are now expected to go beyond conventional teaching methods and embrace technology-driven, learner-centric pedagogies to enhance engagement, improve learning outcomes, and prepare students for the challenges of the 21st century. To bridge this digital teaching divide and empower educators, MKCL offers the Maharashtra State Advanced Certificate in Information Technology (MS-ACIT – IT for Teachers) course, designed specifically for teachers, professors, and academic facilitators across Maharashtra.

Transforming Teachers into Tech-Enabled Educators

The MS-ACIT course equips educators with cutting-edge digital tools, modern teaching strategies, and emerging technologies to create impactful and interactive learning environments. The curriculum focuses on strengthening educators' digital literacy and enhancing their ability to integrate technology into pedagogy effectively. From mastering e-learning platforms, digital classroom management tools, and content development techniques to leveraging AI-powered resources for assessment and research, MS-ACIT empowers teachers to adopt innovative practices that redefine teaching and learning in a connected world.

A Holistic Learning Experience for Professional Growth

Structured into 50 comprehensive sessions spread over 144 hours, the MS-ACIT curriculum blends conceptual understanding, hands-on practice, self-paced exploration, and real-world application. Teachers are trained to operate digital tools, manage smart classrooms, create multimedia content, design AI-enabled assessments, and conduct engaging online learning sessions. Beyond skill-building, the program nurtures the educator's role as a technology facilitator, e-content developer, academic mentor, and lifelong learner, opening pathways for continuous professional development and career advancement.

Building Future-Ready Educators

Jointly certified by **MSBTE** and **MKCL**, the MS-ACIT (IT for Teachers) course bridges the gap between traditional teaching and technology-enabled education. By equipping teachers with digital pedagogical expertise, the program not only enhances their effectiveness but also transforms classrooms into dynamic hubs of innovation and collaboration. MS-ACIT thus plays a pivotal role in shaping a future-ready teaching workforce capable of inspiring and empowering the next generation of learners.

Why choose MS-ACIT (IT for Teachers)?

Empowering educators with the digital skills and pedagogical tools required to thrive in the 21st-century learning ecosystem.

Specialized Course for Educators – Designed exclusively for teachers, professors, and academic facilitators to enhance teaching methodologies.

Joint Certification – Certified by MSBTE and MKCL, ensuring credibility and recognition.

Comprehensive Curriculum – 50 sessions spread over 144 hours covering digital tools, AI-powered teaching, e-content creation, and online assessment.

Hands-On Learning – Focuses on practical applications with immersive practice sessions, real-world tools, and interactive exercises.

AI-Integrated Pedagogy – Learn to leverage modern AI tools like ChatGPT, Canva AI, Quillbot, and Pictory for creating impactful learning experiences.

Flexible Learning Modes – Available in both @ALC (Authorized Learning Center) and @Home modes for convenience.

Professional Growth Catalyst – Equips educators to create engaging, technology-driven classrooms and prepares them for leadership roles in the education sector.

Future-Ready Teaching Skills – Builds capabilities as a Technology Facilitator, eContent Developer, eTutor, Researcher, and Lifelong Learner.

Every teacher should choose MS-ACIT because education today demands **Innovation**, **Adaptability**, and **Digital Expertise**. **MS-ACIT** empowers teachers to lead classrooms with technology, engage students more effectively, and stay ahead in the evolving educational landscape.

Course Syllabus

Session Range	Role Upliftment	Key Activities
Session 1-4	Technology Facilitator	Operate devices, manage Wi-Fi, troubleshoot, use sticky notes and tools for classroom setup.
Session 5-10	Classroom Facilitator	Manage digital classroom, create flipped classrooms, track engagement, use various Google tools.
Session 11-14	Academic Facilitator	Manage student groups, track assignments, upload/download files, use OERs.
Session 15-25	eContent Developer	Write learning objectives, create multimedia content, gather feedback for improvements.
Session 26-27	eAssessment Developer	Plan assessments, create AI-driven questions, manage question banks.
Session 28-34	eTutor	Conduct online classes, create presentations and quizzes, manage virtual activities.
Session 35-38	Techno-Pedagogue	Use educational videos, design infographics, ensure accessibility, integrate productivity apps.
Session 39-42	Researcher	Support language learning, curate resources, track online research, apply ethical considerations.
Session 43-45	Lifelong Learner	Explore MOOCs, curate resources, plan professional development using AI tools.
Session 46	Knowing MKCL's Various Enabling Frameworks and Courses	Understand MKCL's frameworks, map learning pathways, communicate digital strategy.
Session 47-50	Final Exam Practice	Revise sessions, complete mock tests, collaborate with peers, prepare for real-world classrooms.
50 Sessions	TOTAL	50 Marks

A. Technology Facilitator

- Operate tablets, laptops, projectors, and Bluetooth devices
- Connect devices to Wi-Fi and servers securely
- Troubleshoot browser and device errors
- Manage digital safety and power-saving settings
- Use sticky notes, snipping tools, and Otter.ai for documentation
- Prepare smart classrooms for effective digital teaching

B. Classroom Facilitator

- Manage digital classroom using Google Classroom, Docs, Forms
- Use MS Word, Google Docs for notices and collaborative writing
- Apply Google Forms and Google Chat for attendance and communication
- Create flipped classrooms using videos (YouTube, PowerPoint, Canva)
- Facilitate peer feedback using Google Forms and rubrics
- Track and enhance student engagement using Slido, Quillbot, and Diffit.me

C. Academic Facilitator

- Form and manage student groups within Google Classroom
- Use Trello and MS Excel for tracking group work and assignments
- Manage mobile-first teaching using Google Classroom App
- Upload and download files securely using Google Drive and WeTransfer
- Use OERs responsibly through NCERT/OER Commons, Mahadnyan, and NotebookLM
- Structure and curate open educational resources

D. eContent Developer

- Write learning objectives using Bloom's Taxonomy, Mager's Method, Gagné's Events
- Design and document lesson plans using ASSURE and 5E models
- Create videos using Windows ClipChamp, Lumen5, VEED.io, and Pictory AI
- Develop multimedia-rich content using Canva AI, Format Factory, Google Slides
- Prepare storyboards using PowerPoint, Google Slides, Descript
- Publish content, gather feedback, and implement iterative improvements

E. eAssessment Developer

- Plan assessments using Google Forms and Google Workspace
- Write quality questions based on Bloom's Taxonomy
- Use Quillionz and ChatGPT for AI-driven question creation
- Create online tests with proper accessibility
- Manage question banks and assessment records digitally

F. eTutor

- Conduct online classes using Google Meet, MS Teams, and Zoom
- Create and manage social media groups for learning (WhatsApp, Telegram)
- Develop and share multimedia content via Facebook, Instagram, Canva AI
- Create presentations using PowerPoint, Google Slides with ClassPoint and Pear Deck

- Implement real-time quizzes and student response tracking
- Plan and manage virtual classroom activities using Google Calendar and Padlet

G. Techno-Pedagogue

- Use educational videos effectively in teaching
- Integrate apps like NeuroNation, StayFocusd, Forest App for student productivity
- Design infographics using Canva, and Miro
- Use mobile apps for visual teaching and class engagement
- Curate and organize visual content for various learning needs
- Ensure digital content accessibility and cybersecurity

H. Researcher

- Use Google Translate, ChatGPT, Quillbot for language support
- Create custom search engines for students using Google CSE
- Use Google Alerts and Google Lens for real-time information retrieval
- Curate online educational resources using Feedly, Raindrop.io, and NewsGuard
- Track and verify online research sources using Scite and Semantic Scholar
- Apply ethical considerations when using and sharing digital content

I. Lifelong Learner

- Explore MOOCs using edX, Class Central, and TED Talks
- Curate and share digital resources via Google Sites and Docs
- Organize and manage content using Google Drive, Google Trends, and ChatGPT
- Apply AI tools for content summarization and review
- Plan and track professional development activities using Google Calendar and Google Groups
- Build and manage a personal learning network for continuous growth

J. Knowing MKCL's various enabling frameworks and Courses

- Understand MKCL's key frameworks
- Explore various MKCL courses and offerings
- Map MKCL's learning pathways with classroom needs
- Communicate MKCL's 21st Century digital education strategy
- Use MKCL platforms for personal and professional development
- Contribute to MKCL's digital learning community

K. Final Exam Practice

- Revise and consolidate learning from all sessions
- Apply tools and techniques in practice scenarios
- Complete final hands-on project using multiple tools
- Attempt mock tests and reflective activities
- Collaborate with peers for peer review and feedback
- Prepare for applying MS-ACIT skills in real-world classrooms

L. Internal Assessment:

- Assignments (hands-on, reflective, and provocative tasks)
- Knowledge Checks (short quizzes and reflections)
- Session-end Tests (concept understanding and application)
- Practical Assignments (real-world content creation and teaching tasks)

Software Tools used in MS-ACIT

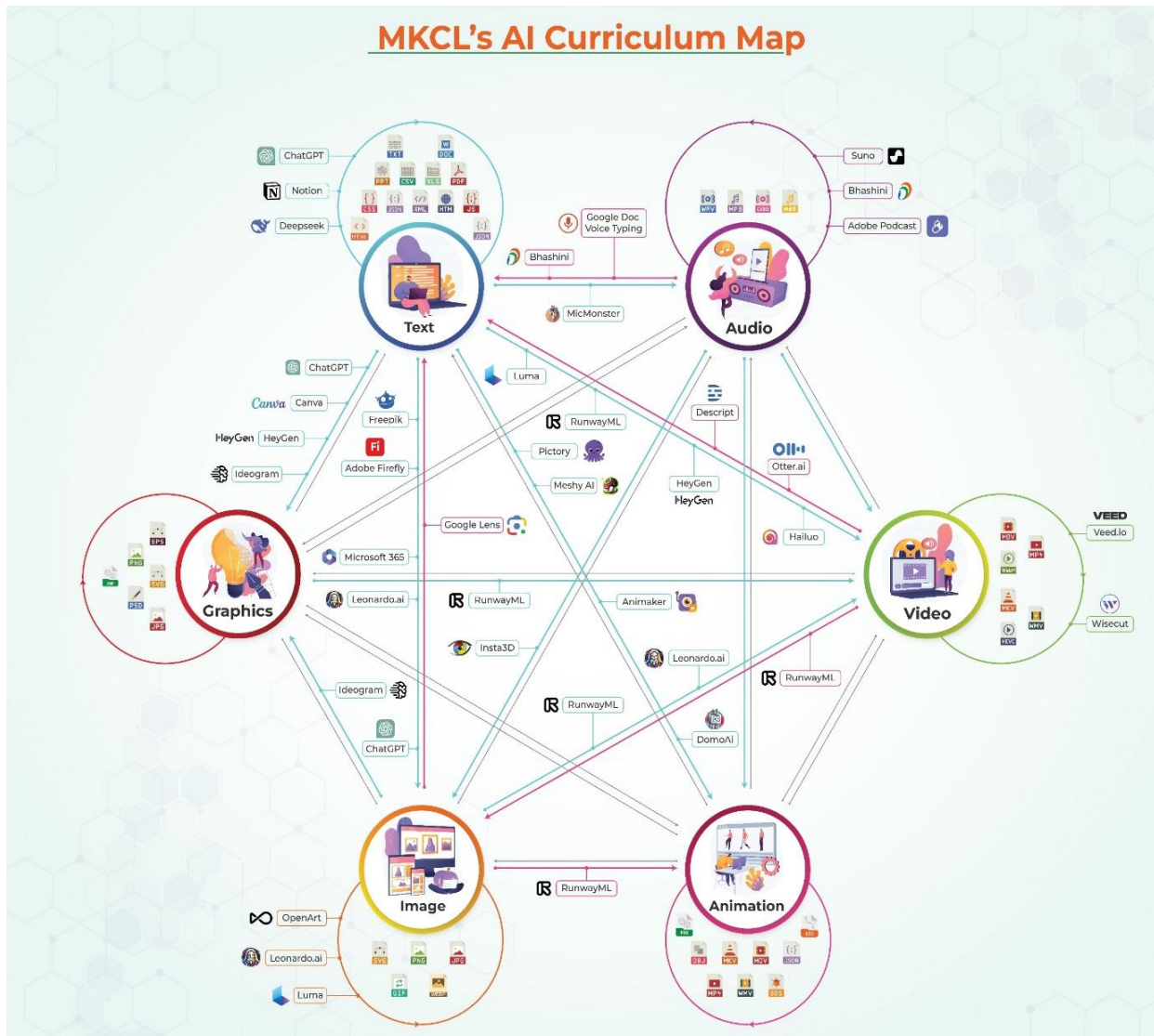
Following software tools are used in MS-ACIT Course

Sr. No.	Tools	
Operating System and Internet		
1	Windows 10	 Windows 10
2	Internet	 Internet Explorer 11
3	Google Chrome	 chrome
Word Processor		
4	MS Word 2019	
5	Google Docs	
Spreadsheet		
6	MS Excel 2019	
7	Google Sheets	
Presentation Graphics		
8	MS PowerPoint 2019	
9	Google Slides	

Personal Information Manager		
10	MS Outlook 2019	
11	Gmail Inbox	
12	Google Drive	
Essentials		
13	Ergonomics	
14	Go Green	
15	Netiquette	
16	100+ AI Tools	

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MS-ACIT AI Curriculum Map



MS-ACIT Course Details

Government Resolution (GR) for **MS-ACIT** (IT for Teachers) course:

- G.R.dtd. 3.10.2000 (MS-ACIT Course commencement)
- MS-ACIT शासन निर्णय क्र. मातंत्र ३७००(२२३२०००)तांशि-३, दिनांक ०६ फेब्रुवारी २००२
- MS-ACIT शासन निर्णय क्र. - एच.एस.सी. १३०१(४४५०१) उमाशि-०१, दिनांक १४ नोव्हेंबर २००३

You can access these GRs through the link: <https://msacit.mkcl.org/government-resolution>

Course Fees

MS-ACIT fee applicable for MS-ACIT at ALC as well as Satellite Center.

Maharashtra State Advanced Certificate in Information Technology (MS-ACIT – IT for Teachers)

Below fee structure is applicable for 'MS-ACIT' for 2026-27 financial year:

Fee Mode	Course Duration	MKCL Fee Only (MFO) before Admission Confirmation	Authorized Learning Center Share
	Hrs.	Rs.	Rs.
Rest of Maharashtra	144	1,765/-	3,235/-
PMRDA Region	144	1,765/-	3,735/-
MMRDA Region	144	1,765/-	4,235/-

Medium of Instruction: Medium of learning MS-ACIT course:

- English
- Marathi

Evaluation Pattern

Evaluation pattern for MS-ACIT (IT for Teachers) Course will be as below:

Sr. No.	Types of Assessment	Maximum Marks	Minimum Passing Marks
1	Internal Assessment	50	20
2	Final Online Examination	50	20
	Total Marks	100	40

Final Examination Details:

- Minimum Eligibility: 20 Marks and 50 Sessions through internal assessment
- Total Final Examination Marks: 50
- Total Examination Attempts: 1+2 (Re-examination)
- MS-ACIT (IT for Teachers) Examination Center will be same as MS-CIT Exam Center.
- The schedule for the MS-ACIT (IT for Teachers) Final Online Examination will be same as MS-CIT Final Online Examination.

Computing Resources

1. Minimum Server Configuration:

- Intel i5 6th Generation with 8 GB RAM
- 1 TB SSD Hard disk
- Integrated Graphics
- NIC card / WIFI
- 3 USB ports
- Windows 10 (64-bit) Enterprise Edition with Service Pack 1
- Antivirus
- Quantity required per ALC (minimum): 1 Desktop / Laptop
- Minimum 50 Mbps Internet Connection

The above-mentioned server can support upto 10 clients. If number of clients are more, then server CPU and RAM should be increased proportionately.

2. Minimum Client Configuration:

- Intel i5 6th Generation with 4 GB RAM
- 256 GB SSD Hard disk
- NIC card / WIFI
- Audio ports
- Keyboard and Mouse
- Headphones with Mic

- One Web Camera / integrated Camera
- Antivirus
- 3 USB ports
- Minimum 14-inch-wide screen Monitor or above
- Windows 10 Enterprise (64-bit)
- Antivirus
- Quantity required per Urban ALC (minimum): 10 Desktops / Laptops
- Quantity required per Rural ALC (minimum): 05 Desktops / Laptops

3. System Requirement per center

- Laptops are preferable because:
- Consume less power
- Require less space
- Easy to maintain
- Minimum 3-4 hours power backup available in case of power failure
- Inbuilt Webcamera
- Easy to move
- WiFi connectivity

4. Licenses:

MKCL will provide the following licenses to ALCs:

1. Windows 10 and MS Office 2019 Licenses for 1+5 Machine Setup will be provided by MKCL.

5. Peripherals:

- Printer - minimum 600 dpi resolution (Recommended Brand: HP, Canon, Epson etc.)
- Scanner - minimum 600 dpi resolution (Recommended Brand: HP, Kodak etc.)
- Bio Metric Device: (anyone from the following **make & model**)
- enBioScan-C1 (HFDU08) from BioEnable or
- MFS100 from Mantra Softech
- Power Backup for all Computers
- UPS (Recommended Brand: APC, Microtek, iBall etc.)
- Inverter with Battery backup (Recommended Brand: APC, Microtek etc.)
- DG Set (Optional)
- CCTV (Optional)

6. LAN:

10/100 Mbps Network Switch (Server and all Desktops should be connected to this Network Switch) (Recommended Brand: D-Link, Linksys etc.) OR Wifi Network
Electrical and LAN wiring should run perpendicular to each other. If they are parallel to each other, then 2 feet should be maintained between them to avoid interference

7. Internet:

10GB Broadband Connection (Server and all Desktops should be able to connect to the Internet by using Internet Connection Sharing or Proxy Server)

MKCL's Learning Pedagogy

A. Pedagogy / Andragogy:

- The academic approach focuses on inform-to-perform and perform-to-transform - transforming an unemployable youth into a gainfully and joyfully employed individual and perhaps a life-long learner. It provides for simulated experience of real-life “work centric” education i.e., begin with work (and not from a book!), derive knowledge from work and apply that knowledge to make the work more wholesome, useful and delightful.
- The learner has to sequentially undergo skill attainment by actually completing several well-defined tasks of industry-relevance by intensively using the various software tools. In case of many tools, Learner's assignments are auto assessed by the Learning Management System (LMS). Learners cannot complete the course by merely watching the content videos. The videos have interactivities embedded within them. This instils among the learners the active learning habits.
- The ultimate objective is to empower the Learner to engage in a socially useful and productive work. It aims at leading the learner to his/her rewarding career as well as development of society through his/her technical contribution.
- Learners follow the approach of self-initiated learning, self-learning, self-paced learning, self-managed learning, and self-directed learning which eventually leads to earning

B. Learning Methodology:

- Learners are given an overview of the course and its connection to life and work.
- Learners are then exposed to the specific tool(s) used in the course through the various real-life applications of the digital tool(s).
- Learners are then acquainted with the careers and the hierarchy of roles they can perform at workplaces after attaining increasing levels of mastery over the tool(s).
- Learners are then acquainted with the architecture of the tool or Tool Map so as to appreciate various parts of the tool, their functions and their inter-relations.
- Learners are then exposed to simple application development methodology by using the tool at the beginner's level.
- Learners then perform the differential skills related to the use of the tool to improve the given ready-made outputs.
- Learners are then engaged in appreciation of real-life case studies developed by the experts.
- Learners are then encouraged to proceed from appreciation to imitation of the experts.
- After imitation experience, they are required to improve the expert's outputs so that they proceed from mere imitation to serious emulation.
- Finally, they develop the integral skills involving optimal methods and best practices to produce useful outputs, publish them in their ePortfolio and thereby proceed from serious emulation to amazing self-expression, from self-expression to self-confidence and from self-reliance and self-esteem!

C. Learning Management System (LMS):

- The LMS framework has been designed and developed with a view to offer high quality education uniformly to all learners, irrespective of whether his/her ALC is located in tribal, rural or urban area. The framework has been developed to offer self-paced, interactive and personalized learning experience to each learner.
- The eLearning Content is offered through LMS. The eContent has a rich voice over in appropriate language and is in both types i.e., inform content and perform content. A state-of-the-art delivery mechanism through LMS includes Learning Management System support to the learners in a personalized manner, Learning Facilitator's resource material, academic support to the Learning Facilitators, day-wise monitoring of sequential curriculum unfoldment, hands-on assignment planning and question banks leading to intermediate formative skill assessments. Continuous Comprehensive Assessment is offered through unique method of Take-A-Challenge activities.
- Many case studies are provided in the eContent to make the learners aware of the differential skills in an integral context. Various socially useful outputs will make them aware of the use of tool/s under learning in real life. This is based on special principles of instructional design - principle of self-learning, principle of learning by doing and principle of contextual learning. At each step, interactive and practice sessions are provided. In interactive sessions they are guided by the LMS and in practice sessions the real-life assignments with increasing difficulty value are given with the hints, if required. Finally, they are guided to arrive at the solution all by themselves. The security of the system is strong and the evidence-based assessment data is encrypted.

D. Learning Experience in LMS

- Personalized Login
- Sequential learning path
- Access to rich multimedia eContent, wherein a learner experiences the step-by-step creation of hundreds of outputs by using digital tool/s covered under the Module.
- Do-It-Yourself (DIY) facility wherein the learner records the step-by-step creation of outputs in his/her own voice and video while solving the assignments. This leads to production of eProcessfolios in the form of compressed videos. They form concrete verifiable evidence of learning and skill mastery for the scrutiny of potential employers.
- AI Flavored / AI Powered Learning

MKCL's ERA - Taking eLearning to the Grassroots:

MKCL's home-grown eLearning platform viz. **ERA (eLearning Revolution for ALL)** is a light-weight quasi-online as well as online Learning Management System (only 9 MB). ERA LMS Platform contains following modules:

- Course Designers' Paradise - Distributed Factory for eContent Development
- eContent Distribution System
- eLearning Content, Environment and Process Management System for Learning Lifecycle
- eAssessment Management System
- Instant eEvaluation & eCertification System for diagnostic, formative & summative assessments
- High-stake, evidence-based and AI proctored final Online Examination System
- Learner Performance Analytics for further improvements in content.

MKCL's ERA is perhaps the largest eLearning facility with the largest user base in India, operating in a stable manner at the grassroots level for over 23 years. It is a center-based eLearning system (quasi-online) running on a 1 Gbps LAN inside the ALC. It uses the internet, when available, only to upload learners' scores and learning and assessment evidence. It has overcome the barriers of unreliable connectivity and limited bandwidth on one hand and the traditional "teaching is equal to lecturing" mindset on the other.

Today, the ERA platform is not just accepted but highly sought after by millions of learners across all age groups and backgrounds because of its unique underlying pedagogy of the "**Inform-to-Perform**" and "**Perform-to-Transform**" approach, as opposed to the traditional lecture-centric system. The success of ERA lies in the uniqueness of its engaging eLearning content and challenging eLearning assessment through a pedagogically sound eLearning process in a stimulating and supportive eLearning environment.

Owing to the implementation of a technologically facilitated and personalized but strictly sequential and guided process of learning, ERA has also emerged as a framework for global and local monitoring of every step of the academic progression of millions of learners. The vast amount of continuously logged and securely maintained academic progression data of learners (including the IP addresses of the computers being used by them at that time) has emerged as a rich and trustworthy repository for learning data analytics, research, reporting, and continuous improvement of the quality of learning and assessment. It has also improved the traceability, verifiability, falsifiability, and overall transparency in the learning and continuous assessment of each learner across the state-wide network.

The uniqueness of MKCL's IT literacy and functionality skill-building approach lies in its emphasis on not just imparting differential skills but in periodically punctuating hundreds of non-obvious "Take-a-Challenge" situations and then imbibing integral skills with global best practices. The learner is then exposed to several real-life "Take-a-Bigger Challenge" and "Take-a-Grand Challenge" situations, with ab initio step-by-step creation of hundreds of simple and complex socially useful and productive outputs by gradually using and mastering preliminary as well as advanced features of various office productivity software tools and other IT applications and apps. Learners are also given access to a simulated application environment for hands-on practice, where they can experience working on the actual application. This simulated environment is cost-effective in the absence of a licensed software application.

Sample MS-ACIT Certificate

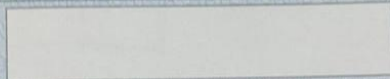
Sr. No. : 26- 000959

 **Maharashtra State Board of Technical Education, Mumbai**



 **Maharashtra Knowledge Corporation Ltd.**
Creating a Knowledge Lit World

This is to certify that



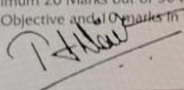
The withinsigned having successfully completed the prescribed course of studies and having passed the examination with 79 percent marks has been awarded the

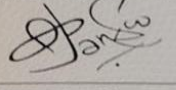
Maharashtra State Advanced Certificate in Information Technology (MS-ACIT)

On behalf of the Government of Maharashtra in the month of April - 2026 in testimony whereof are set the seals and signatures of the Director, Maharashtra State Board of Technical Education, Mumbai and the Managing Director, Maharashtra Knowledge Corporation Limited.

Section Number	Section Name	Marks Obtained	Maximum Marks
I	Learning Process*	33	50
II	Final Examination	46	50
TOTAL MARKS		79	100

Following is the criteria for passing the MS-ACIT Examination Successfully:
Aggregate score of 40 Marks (in Sections I & II) out of 100 with:
* Minimum 20 Marks out of 50 are required for passing in Learning Process (Section I) &
* Minimum 20 Marks out of 50 are required for passing in Final MS-ACIT Examination (Section II) with at least 10 marks in the Objective and 10 marks in the Practical.


**Director
MSBTE**


**Managing Director
MKCL**

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* These marks are as communicated by MKCL.
The photograph of the Candidate is printed on this Certificate. If the photograph is pasted externally this Certificate will not be valid.