DIGITAL REGENESYS
Awakening Potential

IITPSA Accredited

DevOps and Cloud Computing with AI

6-Month Course

- International Certification
- Industry-Relevant Curriculum
- Live Classes



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A Message From The Chairperson

I am delighted to welcome you to Digital Regenesys, part of the Regenesys Group. The purpose of Regenesys is to help individuals awaken their potential and achieve their dreams. New technologies, social media, and innovation have sparked a digital revolution that is rapidly changing the world. The digital revolution demands a new breed of professionals to succeed in the new digital world. To give you a competitive advantage, we have developed cutting-edge digital programmes in the areas of information technology and management. Our programmes are facilitated by leading experts, entrepreneurs, and academics from top local and international institutions.

Regenesys is a global education institute with a presence in South Africa, India, Nigeria, Kenya, Tanzania, Croatia, Botswana, Mauritius, Zambia, Zimbabwe & Uganda, delivering cutting-edge online and contact learning programmes. Over the past 25 years, Regenesys has educated more than 500,000 students from 180+ countries and delivered corporate education programmes to 1000 reputable local and multinational companies. The majority of them are large multinationals such as Mercedes-Benz, Microsoft, Coca-Cola, Barclays, and Samsung, to name a few.

Regenesys alumni occupy top leadership positions in multinational corporations and government institutions all over the world, and form a very influential alumni network that supports its members with business opportunities across the world.

Get inspired, energised, and transform your career with

> ***"I wish you success on your journey towards greatness."***



Dr Marko Saravanja
Founder & Chairperson, Regenesys Education

IITPSA Accreditation: A Milestone For Excellence

Regenesys Education is accredited by the Institute of Information Technology Professionals South Africa (IITPSA).

Established in 1957, IITPSA is South Africa's leading professional bodycommitted to growth of ICT Professionals and ensuring IT courses are high-quality, job-ready, and meet industry standards.

Why Is IITPSA Accreditation Important?

IITPSA accreditation is a hallmark of quality, affirming that Regenesys Education meets the highest standards in curriculum design, faculty expertise, and industry alignment.



It ensures our courses are recognised locally and internationally, providing our students with a competitive edge in the job market.

What are CPD Points?

CPD, or "Continuous Professional Development" refers to structured learning activities aimed at improving professional knowledge, skills, and competencies.

Purpose:

- To ensure professionals stay updated with the latest trends, tools, and best practices in their field.
- To maintain and enhance professional standards and career development.

Gain 30 CPD points through our IITPSA-accredited Cloud and DevOps with AI Course, globally recognised for advancing careers and fostering professional growth.

About the Course

The DevOps and Cloud Computing with AI course at Digital Regenesys supports the growing demand for cloud and DevOps skills. This 6-month course covers cloud fundamentals, advanced cloud engineering with DevOps, automation, and tools, and advanced AI/ML topics, including GenAI and cloud integration. The course uses multiple open-source tools and follows ethical practices. Open to both beginners and experienced professionals, it emphasises hands-on learning and modern technologies for building scalable and efficient cloud systems.

Here are some compelling statistics highlighting the growth of the DevOps and Cloud Computing with AI markets.

$25.5 BILLION
is the expected DevOps market growth rate by 2028

99%
of organisations that have implemented DevOps have reported positive effects.

75% on Indeed &
50% on Linkedin
increase in demand for DevOps engineer roles.



Course Benefits



Global Recognition

Earn a globally recognised Digital Regenesys certification that strengthens professional credibility intechnology-driven roles.



Up-to-Date Curriculum

Learn through an up-to-date curriculum with AI integration, aligned with current cloud, DevOps, and AI-driven industry requirements.



Personalised Guidance

Receive personalised guidance and support throughout the course to assist with learning progress.



End-to-End Support

Benefit from end-to-end support throughout the course, ensuring continuous assistance across learning activities and course requirements.



Weekly Live Classes

Attend weekly live classes focused on concept clarity, guided learning, and interactive discussions.



Hands-On Learning

Engage in practical learning through tools, exercises and activities designed to build real-world technical understanding.



World-Recognised Faculty

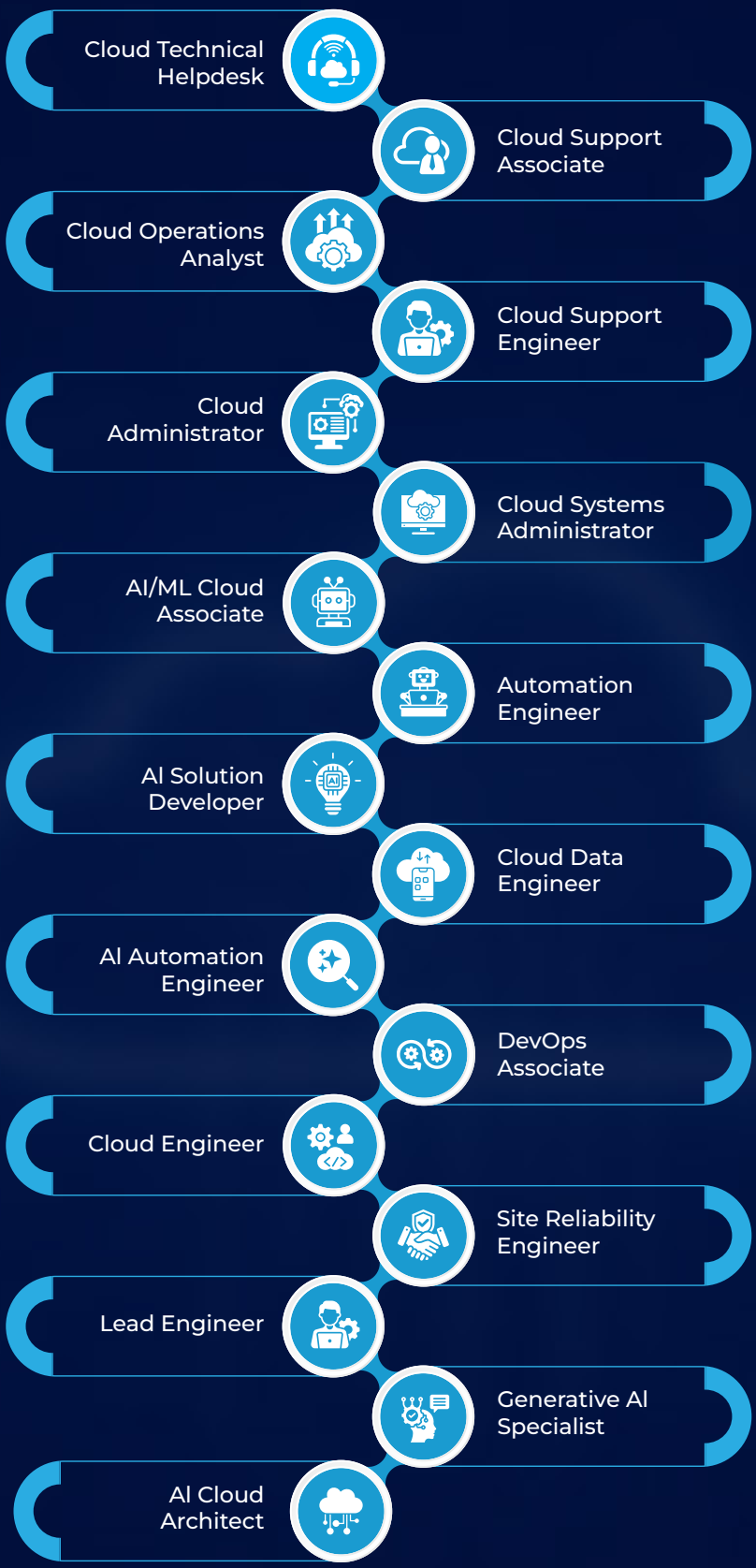
Learn from world-recognised faculty with academic expertise and industry experience in cloud, DevOps, and AI technologies.



Industry Relevant Skills

Develop practical cloud, DevOps, and AI-aligned skills that meet current industry requirements and technology standards.

Career Outcomes



Globally Recognised Certificate



Upon completing the DevOps and Cloud Computing with AI course, you will receive a globally recognised and IITPSA-accredited certificate from Digital Regenesys. You will gain 30 CPD points, validating your expertise in cloud engineering, DevOps, and AI-driven cloud solutions. It demonstrates your ability to deploy and manage cloud infrastructure, implement automation pipelines, and apply AI/ML and Generative AI. It also reflects your knowledge of ethical technology practices and prepares you for advanced cloud and AI roles across industries.

Course Highlights



END-TO-END EXPOSURE

Gain hands-on experience working across AWS, Azure, and Google Cloud Platform environments.



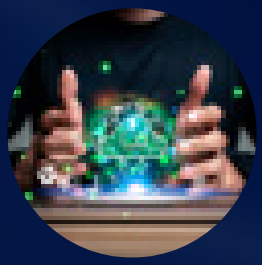
DEVOPS AUTOMATION AT SCALE

Learn to implement CI/CD pipelines, containerisation using Docker, Kubernetes and Terraform for IaC.



GENERATIVE AI FOR CLOUD ENGINEERING

Develop the ability to use AI tools such as ChatGPT, Copilot, Bedrock, and Hugging Face to enhance engineering efficiency and problem-solving.



ETHICAL CLOUD INNOVATION

Apply governance frameworks and responsible AI principles to ensure secure, compliant cloud automation.



CAPSTONE PROJECTS

Apply your learning through structured, real-world cloud and automation projects.



3 YEARS LMS ACCESS

Access the learning management system for three years to revisit course content, learning materials, and resources at your convenience.

Who Should Enrol

The Cloud and DevOps with AI course at Digital Regenesys is designed for learners targeting AI-enhanced cloud roles who want to build expertise in cloud engineering, DevOps automation, and AI-driven systems across modern technology environments, including:



IT Professionals & Developers

Developers, system administrators, network engineers, and security professionals seeking cloud and automation skills.



Career Changers & Beginners

Individuals with some IT background or non-technical roles wanting to enter the cloud sector.

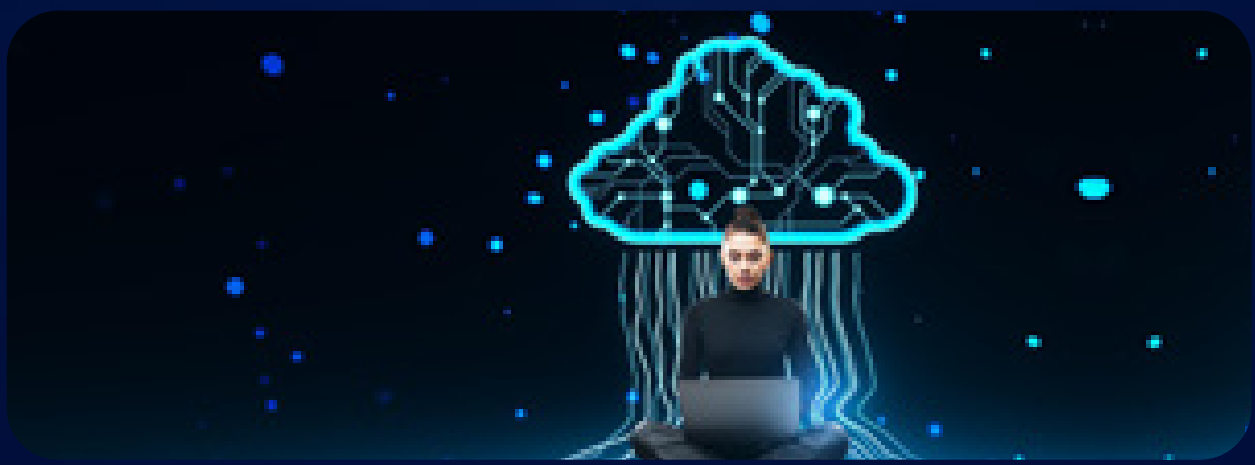


Business Leaders & Teams

Professionals managing IT, operations, or digital transformation initiatives.

Learning Outcomes

- Understand cloud computing fundamentals, deployment and service models, and the key features of AWS, Azure, and GCP.
- Gain practical skills in deploying, managing, and automating cloud infrastructure, including compute instances, storage, networking, and databases.
- Build expertise in DevOps foundations, with a focus on Git and GitHub for version control and collaborative workflows.
- Develop Python programming skills for automation, data handling, and integration in cloud environments.
- Apply AI and ML concepts within cloud ecosystems, building, deploying, and managing models using TensorFlow, SageMaker, and containerised workflows.
- Leverage Generative AI tools to automate cloud workflows, optimise resources, and assist in coding and problem-solving.
- Understand ethical frameworks and responsible AI practices to ensure secure, compliant, and unbiased cloud and AI implementations.



Course Curriculum

Introductory Level:

Cloud Foundations and Essentials



- Introduction to Cloud Computing: Evolution & Scope
- Global Cloud Service Providers & Economics-1
- Global Cloud Service Providers & Economics-2
- Cloud Cost Optimisation
- Fundamentals of AWS
- Cloud Infrastructure on AWS - Compute Services (Practical)
- Cloud Infrastructure AWS - Storage Services
- Cloud Infrastructure AWS - IAM
- Cloud Infrastructure AWS - Networking & Load Balancing
- Cloud Infrastructure AWS - RDS1
- Cloud Infrastructure AWS - RDS2
- Fundamentals of Azure
- Fundamentals of Azure- VM
- Fundamentals of Azure- Blob & SQL Database
- Fundamentals of GCP
- Fundamentals of GCP - VM

Course Curriculum

Intermediate Level:
Advanced Cloud Engineering



- Introduction to DevOps
- Introduction to Programming with Python 1
- Introduction to Programming with Python 2
- Introduction to Programming with Python 3
- Introduction to Programming with Python 4
- Introduction to Programming with Python 5
- Introduction to Git and Version Control
- Introduction to GitHub
- Introduction to CI/CD with Jenkins and AWS CodePipeline
- Hands-On Lab: CI/CD Pipeline with Jenkins & CodePipeline
- Introduction to Docker and Kubernetes
- Hands-On Lab: Containerisation & Orchestration
- Introduction to Terraform
- Hands-On Lab: Infrastructure as Code with Terraform
- Introduction to Ansible
- Hands-On Lab: Configuration Management with Ansible & Observability



Advanced Level:

AI/ML for Cloud Computing Engineering

- Introduction to AI/ML
- Data Preparation and Feature Engineering using Open Source Platforms
- Model Deployment and Management 1
- Model Deployment and Management 2
- Model Deployment and Management 3
- ML Modelling with AWS 1
- ML Modelling with AWS 2
- Generative Al & Cloud
- Generative Al & Cloud
- Generative Al & Cloud
- Leveraging Generative Al to Become a 10x Cloud Engineer
- Al Code Assistance
- Ethical Practices
- Capstone Project
- Capstone Project
- Capstone Project

Tools Covered in this Course

Cloud Platforms, Infrastructure & Networking


Amazon (EC2, S3, RDS)


Amazon (SageMaker EC2, S3)


Google Compute Engine


Cloud Storage


Cloud SQL



SQL Database



Blob Storage


Virtual Machines (VMs)



VPC (Networking)

Programming & Development Foundations


Python



Jupyter Notebook


Google Colab

Version Control & Collaboration


Git


GitHub

CI/CD, DevOps & Automation


Jenkins


AWS CodePipeline


Terraform


Ansible

Containers & Orchestration


Docker


Kubernetes

Tools Covered in this Course

Workflow Orchestration & Data Pipelines


Apache Airflow


Prefect

Machine Learning & MLOps


TensorFlow



MLflow


FastAPI

AI & Foundation Model Platforms


OpenAI API


AWS Bedrock


Anthropic Claude


Hugging Face

Large Language & Generative Models



LLaMA


Falcon


Transformers



Diffusers


Stable Diffusion

AI-Powered Developer Tools


ChatGPT



AWS CodeWhisperer



Codeium


Tabnine


Replit Ghostwriter

Course Fee

South Africa	Tanzania	Uganda	Nigeria	Kenya
R53,000	TSh5,540,900	UGX6,901,000	₦2,870,800	Ksh275,60

India	USA	Botswana	Namibia	Zimbabwe
₹265,000	$2,957	P46,903	$47,700	ZWG72,273

Zambia	Mauritius	Lesotho	Eswatini
ZMW65,892	MURs148,045	LSL53,000	SZL53,000



Our Global Network



CONTACT US

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