



upGrad
enterprise



International
Institute of Information
Technology Bangalore

PG Certification in Blockchain Technology

6 Months | Online with Offline Basecamp

ABOUT UPGRAD



Ronnie Screwvala
Co-founder & Chairman

upGrad

upGrad enterprise endeavours to build world-class professionals through online and blended learning programs. Each program comes with a certification from a top university, with the flexibility of learning while working. We create cutting edge curricula in collaboration with leading global faculty and industry experts, supported by our world class technology, pedagogy, and services. The online learning experience is complemented by a rich set of offline components like real mentors, graders, and live sessions to ensure learners are supported throughout their learning journey. Based on industry trends, we have identified Blockchain as one of the fastest growing technologies with an exponential increase in demand for skilled professionals.

With our meticulously designed PG Certification in Blockchain Technology, upGrad enterprise promises to equip your team with the perfect mix of business acumen and technical capabilities, to develop future ready, well rounded professionals.

ABOUT IIIT BANGALORE



Prof. S. Sadagopan
Director



IIIT-B is one of the leading institutes of higher education in the country which has an outstanding world-class faculty with years of experience in the latest technologies.

We are excited to partner with upGrad to offer a one-of-its-kind, academically rigorous and industrially relevant PG Certification in Blockchain Technology. Our PG Certification will provide you with just the right push to accelerate your career in this field.

WHY BLOCKCHAIN

\$9.7 bn

Total **Blockchain**
spending by 2021 with a
compound annual growth
rate(CAGR) of 82%

~International Data Corporation

“

*Blockchain is as significant now as the
internet was 25 years ago.*

Blythe Masters

Chief Executive of the Blockchain start-up Digital Asset Holdings

WHO IS THIS PROGRAM FOR

Whether you want to transition into a Blockchain Role or acquire the right skill-set to grow in your current role, this program is just right for you.

- Developers & Sr Developers
- IT/ITeS Project Leads & Managers
- Technical Leads
- Blockchain start-up professionals

WHY BLOCKCHAIN WITH IIIT-B AND UPGRAD?



PG Certification from IIIT-B

Earn a reputed Post Graduate Certification without leaving your job.



Hands-on Learning Opportunities

Receive industry certificates on completing industry projects and participate in action workshops.



Strong Peer-to-peer Interaction

State-of-the-art platform to connect with the entire network of accomplished peers.



On-the-go Learning

Learning squeezed into smaller learning sessions; anytime - anywhere.



One-on-one Industry Mentorship

Receive 1:1 mentoring from industry experts to understand your career pathway.



Dedicated Personal Support

Dedicated mentor along with teaching assistants for academic or other doubts.



Get Personalised Feedback

Grading and personalised feedback on your assignments.

INSTITUTE FACULTY & INDUSTRY EXPERTS

NITIN GAUR

Director
IBM Blockchain Labs



SUDIN BARAOKAR

Chief Mentor - Bankchain
Blockchain Alliance



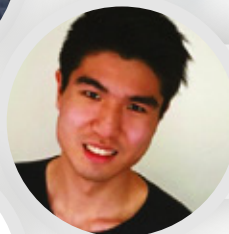
PRASANNA LOHAR

Head Technology
DCB Bank



SEAN HAN

Author
Blockchain Demo



KARTIK MANDAVILLE

Founder & CEO
SpringRole



SANACHIT MEHRA

CEO
Cateina Technologies



PROF. TRICHA ANJALI

Associate Professor
IIIT Bangalore



SUNIL SHARMA

Co-founder
SquadX



PROGRAM CURRICULUM

PRE-COURSE

(Duration : 2 weeks)

We have built a 2 week pre-course in JavaScript where you will be given a strong foundation in order to prepare for the intensive learning experience of the program.

BLOCKCHAIN FUNDAMENTALS AND BUILDING A BLOCKCHAIN

(Duration : 7 weeks)

Demand for Blockchain developers has sky rocketed recently and there is a need for professionals who understand the core basics of blockchain. Learn the fundamental concepts behind building a blockchain, its features & then code your own Blockchain!

Topics Covered:

- Introduction to Blockchain
- Features of Blockchain
- Cryptography in Blockchain
- Types of Blockchain
- System Architecture
- Build your own Blockchain using JavaScript

Tools & Languages Used:



FUNDAMENTALS OF ETHEREUM AND SMART CONTRACTS

(Duration : 2 weeks)

Topics Covered:

- Fundamentals of Ethereum
- Creating Smart contracts

Tools & Languages Used:



Note: IIIT-B and upGrad reserve the right to edit/alter the curriculum at a later date based on academic requirement and industry feedback.

HYPERLEDGER

(Duration : 6 weeks)

Hyperledger, the most popular public blockchain, is widely used to build blockchain solutions for use-cases across industries. Learn how Hyperledger functions, build and deploy fabric network and chaincode.

INTRODUCTION TO HYPERLEDGER

(Duration : 1 week)

Topics Covered:

- What is Hyperledger?
- Distributed Ledger Technology and its Challenges
- What is Fabric?
- Components of Fabric
- Architecture
- Transaction Flow

FABRIC UNDER THE HOOD

(Duration : 3 weeks)

Topics Covered:

- Building the Hyperledger Fabric Network
- Writing the Chaincode
- Performing Transactions

HYPERLEDGER COMPOSER

(Duration : 2 weeks)

Topics Covered:

- Introduction to Hyperledger Composer
- Understanding Hyperledger Composer (Model, Transaction Processor, Access Control, Query)
- Hyperledger Composer Playground Experience
- Developing Application using Composer Playground

Tools & Languages Used:



CAPSTONE PROJECT

You will work on a project mentored by industry experts through one-on-one discussions and feedback sessions. The projects have been decided to ensure that you get to apply all the lessons you have covered during the 11-month program.

Industry Projects:



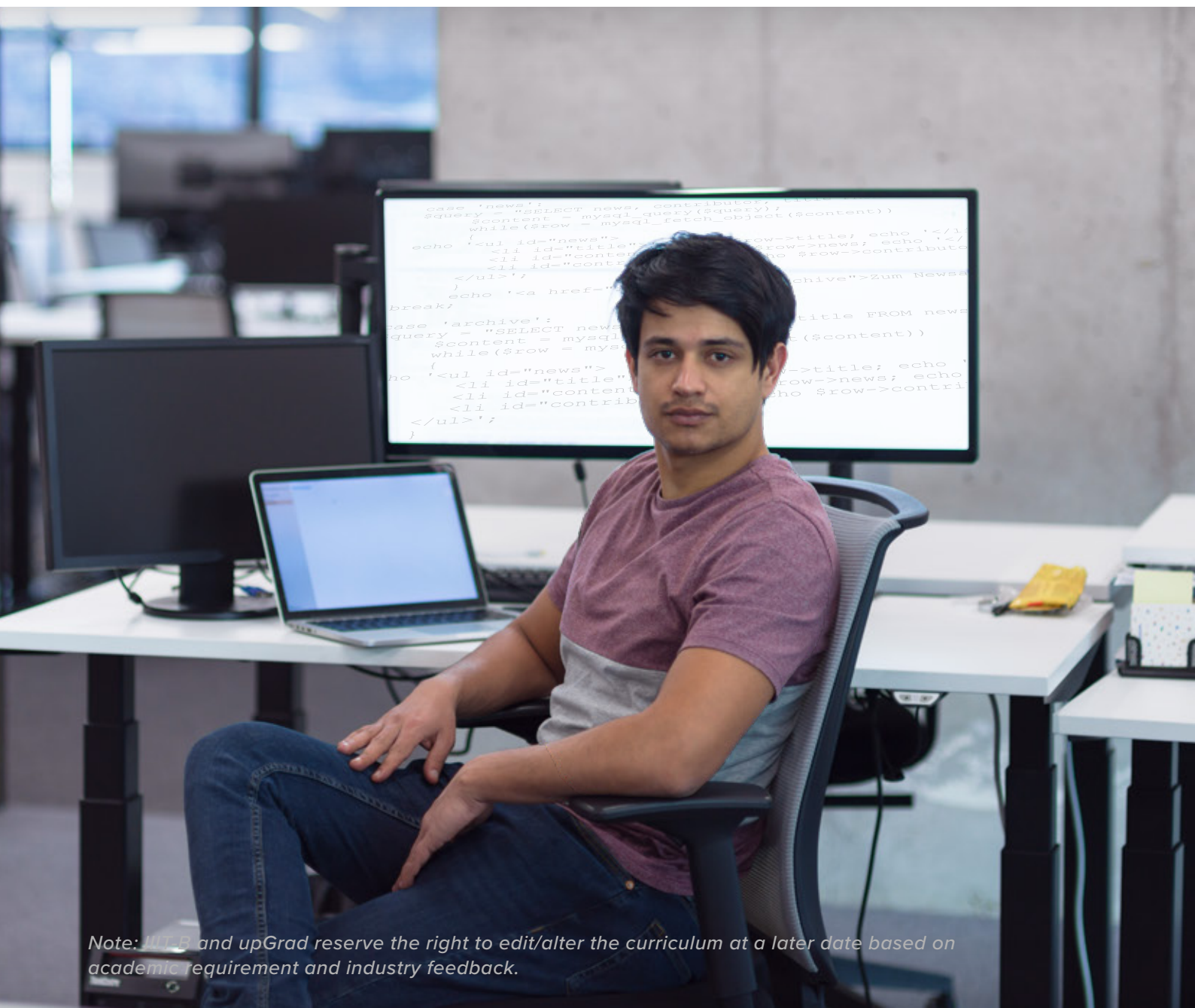
Action Workshops:



Industry Experts:



Ecosystem Partners:



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PROGRAM DETAILS

DURATION

6 Months

FOR FURTHER DETAILS, CONTACT US AT:

enterprise@upgrad.com

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