

Bachelors of Technology in
Computer Science Engineering

Specialisation in Software Product Engineering



LINGAYA'S
VIDYAPEETH

Deemed-to-be University
u/s 3 of UGC Act 1956

choose to know

Powered by

 **Kalvium**

#EngineeredDifferently

India's only work-integrated B.Tech program with assured
internships at top tech companies at end of first year



www.kalvium.com

Program at a Glance

B.Tech Program After 12th | 4 Year Full-Time On-Campus

Key Highlights

Professional Tech Skills

Master in-demand tech skills like **Full Stack Development** through industry level project-based learning



Assured Paid Internships

Intern from Year 2 to 4 at top tech companies & earn **Stipends up to INR 8 Lakh**



3 Times Better Pay Package

Gain **3 Years Work Experience** while learning to get a **3X higher CTC** in final year placements



Personalized Mentorship

Get **Mentored by Tech Professionals** and become industry ready faster



Potential Recruitment Partners



+more

Backed by Top Tech Leaders



Rahul Chari
Co-Founder, CTO
at PhonePe



Anupam Mittal
Founder
at People Group



Kunal Shah
Founder
at CRED



Nithin Kamath
CEO
at Zerodha



Ankit Bhati
Ex Co-Founder
at OLA

+more

About Kalvium

The Tech Industry has been the prime mover behind all major advancements in the world. Today's technology companies require skills and experience, and not just degrees and that's where Kalvium comes into picture.

At Kalvium, our vision is to reimagine the Tech degrees offered by universities today, making them relevant for today and tomorrow. We do this by building an ecosystem powered by our proprietary cutting edge curriculum that offers an immersive learning experience.

Kalvium provides work-integrated Computer Science degree programs in collaboration with top accredited universities to help graduates achieve real-world readiness. Skills where graduation outcomes are aligned with industry roles and experience with work opportunities from Year 2 of study.

Kalvium's promoter team has over 12 years of experience in the IT talent management space. Over the years they have had strong working relationships with leading IT companies from India and abroad. We have the experience in serving over 500+ technology companies in the past and leveraging this experience to rope in recruitment partners for this Work Integrated Degree program model.

Apart from past experience, the promoters have also raised external investment from founders and CEO's of some of the biggest Tech brands in the world like Flipkart, Udaan, Cred, Ola Cabs, Zerodha, PhonePe to name a few.



The Program Highlights



Relevant Work experience

With our work-integrated curriculum, students get paid internship opportunities with top tech companies at the end of the 1st year which will prime the students with relevant work experience and they graduate being industry-ready.

Empowering Financial Independence

With an earning potential of up to INR 8 Lakhs in stipend, students get to work with top tech companies which inculcates a sense of responsibility.

Higher salary package

Kalvium's students graduate with 3 years of work experience, which puts them way ahead of their peers as freshers and have the potential to earn a 3x higher salary package.

Placements in top tech companies

The Kalvium program is backed by Tech Industry leaders and houses an exhaustive list of top tech companies that provide end of 1st year paid internships and final year placements.

Nurture growth mindset

Kalvium powered by its cutting-edge curriculum is designed to help you nurture a growth mindset and big picture thinking, and in turn you begin to set bigger career goals as well as develop an attitude of lifelong learning.

One-to-One Personal mentorship

One-to-one personal mentorship which is offered as part of the program at Kalvium aims at helping students grow to become their unique best versions and nurture them to become tech leaders of tomorrow.

Program Structure

The program has 4 types of courses broadly defined as -

Skilling Courses

A set of courses crafted to take a liberal approach to help students develop crucial 21st-century skills and cognitive abilities in both professional and personal life.

Foundation Courses

Courses oriented towards MERN Stack Development, that starts with basic programming eventually leading up to high-level product development.

Academic Courses

Designed to inculcate strong foundational knowledge in computer science, the courses are thoughtfully crafted to impart concepts, their applications & practical labs associated with them.

Integrated Work

Relevant work experience in top tech companies where students gain real world software development expertise, workplace exposure, and industry-ready skills.

B.Tech in Computer Science Engineering with specialization in Software Product Engineering



8 Semesters

Subjects 36

184 Credits

Key Milestones

4 Years at Lingaya's Vidyapeeth , a foundation for a Thriving Tech Career

START



Join Lingaya's B. Tech Program in Computer Science Engineering powered by Kalvium

Bootcamp on Computer Science Fundamentals & Software Developer Skills



END OF SEMESTER

Guaranteed paid internships at top tech companies

1:1 Student Mentorship by Industry Experts + Skill Development + Academic Foundation



START OF SEMESTER

Capstone Project.



3x CTC at Final Year Placements at top tech companies
Earn your degree and kickstart your career.

FINISH

Academic Courses

1. The breadth of Computer Science - 1
2. The breadth of Computer Science - 2
3. Data Structures & Algorithms
4. Discrete Mathematics
5. Computer Organization & Architecture
6. Operating Systems
7. Design & Analysis of Algorithms
8. Database Management Systems
9. Formal Language & Automata Theory
10. Object Oriented Programming
11. Compiler Design
12. Computer Networks
13. Design for Developers



Foundation Courses

- Critical Thinking 101 .1
- Professional Skills for The Workplace .2
- Learning How to Learn .3
- Principles of Science .4
- Mathematical Thinking 101 .5
- How Human Languages Work? .6
- Tools & Techniques for Creative Thinking .7
- English LSRW .8
- Discovering Self .9
- Fundamentals of Business Management.10

Delivery powered by QUADRANGLE

Quadrangle is Kalvium's proprietary A.I powered learning ecosystem that offers an immersive learning experience.



Offers outcome-focused rich analytics for students to keep a track of their performance.



Facilitates work-integration by providing necessary performance & productivity metrics.



Provides Interactive lessons, live classes, mini-projects, challenging labs, & more.

With Kalvium, you learn new-age tech skills as core concepts in Year 1 & in-demand technologies that enable you to become a Full Stack Developer before graduation.



Student Development Activities

Kalvium's cutting-edge curriculum is aimed at creating an all-around fascinating learning experience that not only primes up the academic proficiency but also helps nurture students to become the best version of themselves.

The student development activities are a core part of the curriculum and are intended to involve students in free-spirited learning activities that promote cross-disciplinary skills such as communication, confidence, peer learning, presentation, creative problem-solving and interaction with high achievers from the tech industry.

Here's to name a few that you would be experiencing as part of the curriculum;

Podcast- Kalvium Konnect

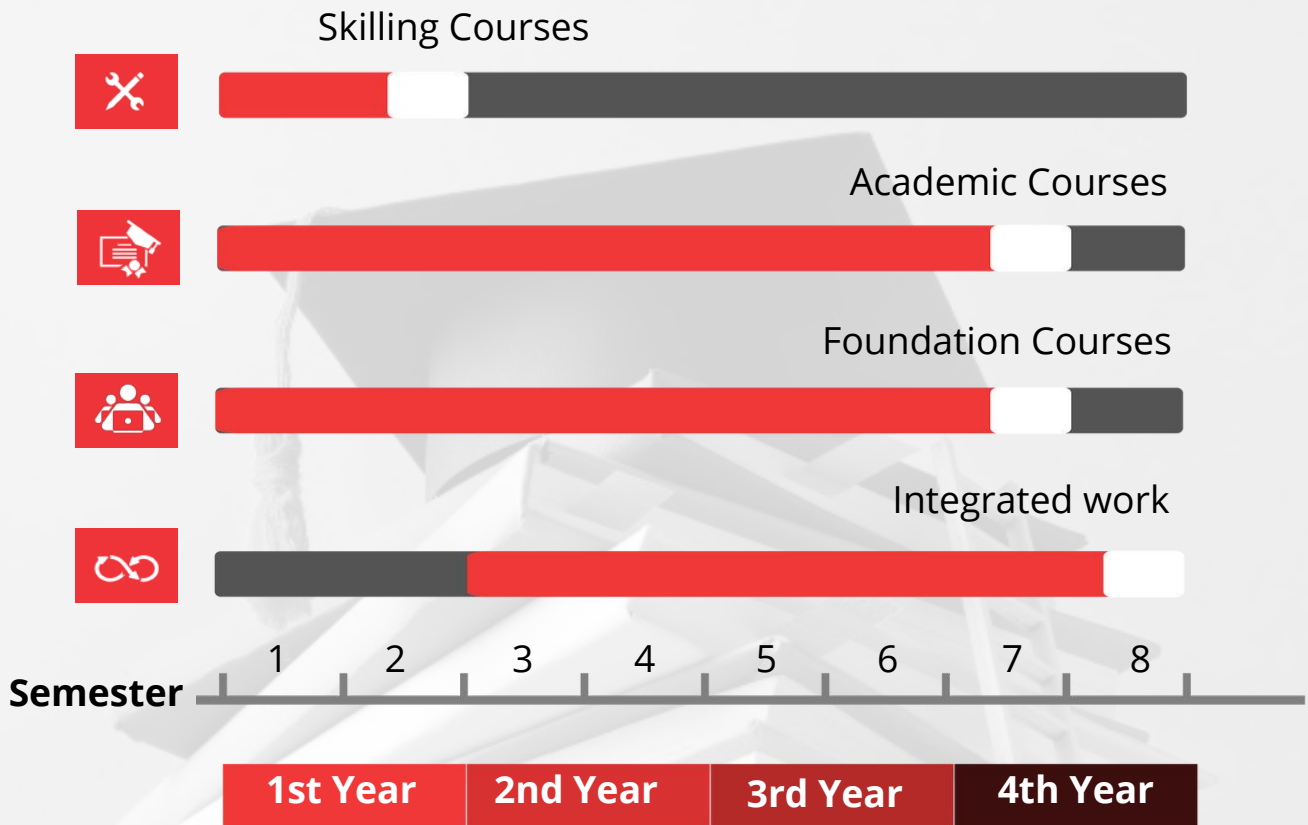
These sessions are focused on encouraging learning from peers and experts. The expert sessions would be handled by high-achievers (CTOs, Engineering Managers, SDEs, etc.) from the tech industry, which will give students the exposure to real-world engineering problems and how teams go about solving them. The peer sessions on the other hand would be an opportunity for students from the same class to present new & interesting topics for others to learn from.

Competitive Programming (CP) Club

This one is our personal favorite; sessions under the CP Club are headlined by high achievers from the world of competitive programming - top-rankers from contests such as Google Code Jam, Hash Code, Kickstart, Facebook's Hacker Cup, ICPC, and more. The aim of these sessions would be to teach ideal problem-solving techniques for CP problems, build awareness of CP in one's career as well a roadmap towards landing top tech jobs.



Credit Plan



| CREDIT PLAN | NO. OF SUBJECTS | CREDITS |
|------------------------|-----------------|------------|
| Academic Courses | 17 | 59 |
| Foundation Courses | 13 | 45 |
| Skilling Courses | 5 | 20 |
| Open Elective | 1 | 4 |
| Integrated work | - | 56 |
| Total | 36 | 184 |

Semesters at a Glance

Year 01

Semester 01

Credits: 26

| | |
|---|---|
| Front -End Web Development | 4 |
| Critical Thinking 101..... | 4 |
| Discrete Mathematics | 4 |
| Professional Skills for the Workplace..... | 3 |
| The Breadth of Computer Science 1..... | 4 |
| Problem Solving using Programming | 4 |
| Design for Developers | 3 |

Semester 02

Credits: 20

| | |
|--|---|
| Back-End Web Development | 5 |
| Databases | 3 |
| Learning How to Learn | 4 |
| The Breadth of Computer Science 2 | 4 |
| Full Stack Development | 4 |

Year 02

Semester 03

Credits: 22

| | |
|---|---|
| Economics, Politics & Society Development..... | 3 |
| Mathematical Thinking 101 | 4 |
| Database Management Systems | 5 |
| Object Oriented Programming | 4 |
| Integrated Work | 8 |

Semester 04

Credits: 24

| | |
|--|---|
| How Human Language Work | 4 |
| Tools & Techniques for Creative Thinking..... | 4 |
| Operating Systems | 3 |
| Data Structures and Algorithms | 4 |
| Integrated Work with a Partner Company | 8 |
| Operating Systems Lab..... | 1 |

Semesters at a Glance

Year 03

Semester 05

Credits: 26

| | |
|---|---|
| English LSRW | 3 |
| Principles of Science | 4 |
| Computer Organization & Architecture | 4 |
| Compiler Design | 4 |
| Design & Analysis of Algorithms | 3 |
| Integrated Work with a Partner Company | 8 |

Semester 06

Credits: 22

| | |
|---|---|
| Discovering Self | 3 |
| Fundamentals of Business Management | 3 |
| Formal Language & Automata Theory | 4 |
| Computer Networks | 4 |
| Integrated Work with a Partner Company | 8 |

Year 04

Semester 07

Credits: 22

| | |
|---|---|
| Introduction to Philosophy | 3 |
| Foundation Elective | 3 |
| Academic Elective -1 | 4 |
| Academic Elective -2 | 4 |
| Integrated Work with a Partner Company | 8 |

Semester 08

Credits: 20

| | |
|---|----|
| Any approved Open Elective- any field | 4 |
| Integrated Work with a Partner Company | 16 |

Potential Recruiting Partners



Backed by Top Leaders in Tech



Nithin Kamath
CEO
at Zerodha



Rahul Chari
Co-Founder, CTO
at PhonePe



Kunal Shah
Founder
at CRED



Sujeet Kumar
Co-Founder
at Udaan



Vaibhav Shah
SVP Engineering at
ACKO Insurance



Anurag Vohra
CTO at Bajaj Finserv
Health



Aravind Sanka
Co-founder & CTO
at Rapido



Mathangi Sri
CDO
at Cred Avenue



Guru Venkatachalam
VP and CTO- APJ
at VMWare



Himanshu Verma
CPTO
at Licious



Gaurav Agarwal
Co-Founder
at 1mg



Kailash Nadh
CTO
at Zerodha



Ankit Bhati
Co-Founder
at OLA



Anil Goel
President
at Byju's



Romil Jain
Co-Founder & CTO
at INCREFF



Kumar Muthuraman
Professor at
The University of Texas



Manjunath Talwar
Product Lead
at Cred



Muralidharan
Head Strategy & Ops
at Yellow.ai



Abhilash Nair
APAC Recruiting Leader
at Google



Sarv Saravanan
VP & Business Leader
at Microsoft

Admission Process

STEP 1

Log in to the Kalvium page on the official Lingaya's website & **Register** using your contact information

Take the Kalviness Quotient Challenges (eligibility test)

STEP 2

STEP 3

Submit **your application**

The **application is reviewed & the results announced by Kalvium in 7-10** working days.

STEP 4

STEP 5

Accept admission offer & **submit the program fee**



100% Cut-Off for Passion. Marks don't Matter.

Eligibility Test

Eligibility Test Attempts

Practice Tests

Age Criteria

The Kalviness Quotient (KQ) Challenges

**1 attempt
*Multiple sitting**

Available alongside the KQ Challenges

**Minimum: 16 years
Maximum: 20 years**

The Kalvium Eligibility Test is divided into eight sections,

1. Can you work with numbers?
2. Can you understand data?
3. Can you reason and make decisions?
4. Can you exhibit Algorithmic thinking?
5. Can you communicate in English?
6. Can you write code?
7. Cultural-fitment
8. Program-fitment



Unlike typical entrance exams, this is not a relative grading measure but an absolute measure that closely correlates with how ready you are for a career in software engineering



Fees

TUITION FEE

- ₹ 3,00,000 Per annum

Additional charges (some optional) including examination, hostel, transport etc. are applicable as per the university guidelines. Please refer to Lingaya's official university website for more information.

APPLICATIONS ARE OPEN



LINGAYA'S
VIDYAPEETH
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 **Kalvium**

B.Tech Degree in Computer Science

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