1. Introduction

We, at **Codexpert - Oscar IT Solutions**, are thrilled to present our **15-hour CodeXpert training program** designed to empower students with cutting-edge programming skills. This program has been developed with a focus on delivering high-quality, efficient, and practical coding knowledge, which aligns perfectly with the needs of IT Industry.

2. Training Overview

Our **15-hour CodeXpert training** provides students with comprehensive exposure to programming concepts across multiple languages, including Python, Java, C++, JavaScript, and more. Through hands-on practice and real-world projects, students will master core coding skills while learning to switch seamlessly between different programming languages.

Training Content

- 1. **Introduction to the Universal Programming Concepts**
 - Understanding Basic Building Blocks and structure of a Program.
 - What's common across the Langauges?
- 2. **Core Programming Concepts**
 - Memory Statements..
 - Data types and Identifiers.
- 3. **Multi-language Mastery**
 - Build Memory Statements in C, Python, Java, C++, C#, JavaScript.
 - Learning how to switch between languages efficiently.
- 4. **Arithmetic & Logical Statements**
 - Nature of operators.
 - Operators based on Tasks.
 - How to measure the progess of learning to code?
- 5. **Input & Output Statements **
 - Need for input and output statements.
 - Contents in the Output.
 - Multi Langauge Mastery
- 6. **Sharpen the Coding Skills**
 - How to think like translator.
 - Time and Space Analysis.

7. **Working with If & Switch | Case**

- The Patterns in Selection Statements.
- Examples of the Patterns
- Multi Language Mastery.
- 8. **Working with Iterations **

- Parts of an Iteration.
- Logic Building with Memory State Tables.
- 9. **Functions or Methods**
 - Parts of a Function or Method.
 - Execution of Function or Method.
- 10. Quick Recap of all Statements **
 - Essentials to take off.
 - Giving a Fish vs Teaching how to Fish.
- 11. **Programming Principles**
 - Structured Programming.
 - Object Oriented Programming.
- 12. **Principles of Object Oriented Programming**
 - Encapsulation
 - Abstraction
 - Multi Language Mastery.
- 13. **Working with Objects**
 - Memory Management in an Object Life cycle.
 - Working with Object services.
- 14. **Constructor & Initialisation**
 - Dynamic memory Allocation and Recollection.
 - Multi Language Mastery.
- 15. **Name Shadowing & Polymorphism**
 - Naming the members of the Class as per usage.
 - Existence of different Types of Member in Class
 - Multi Language Mastery.
- 16. **Inheritance The Next Version**
 - Need of Inheritance.
 - Types of Inheritance
 - OOP Code Architecture
 - Multi Language Mastery.
- 17. **Tier II Mastering how to Code **
 - Different Types of Memory Spaces.
 - Why do have multiple Programming Languages
- 18. **The True Treasure of Developer **
 - Understanding the power of Languages and their Real World Projects

19. ** Tier – III Understanding the Architecture of Real – World Projects and their Evolution**

• Switching from the and End User of the Project to a Developers Perspective.

20. Journey into the Future

• AI – Will it be the Master or Slave of Developer?

3. Material and Resources Provided

- **Comprehensive Training Materials**: Digital workbooks, code examples, and reference guides covering all languages and topics taught in the course.

- **Video Lectures**: Access to a library of pre-recorded lectures for students to revisit any topic.

- **Practice Problems**: Over **200 coding exercises** and practice problems, graded with real-time feedback.

- **Access to the Codexpert Community**: Students and faculty will gain membership in the **Codexpert community**, where they can connect with industry professionals, mentors, and fellow students for ongoing learning and career opportunities.

Transforming qualification into high paid skills

4. Training Duration

- The **15-hour training** is structured to be delivered over the course of **10 to 12 days** (75 mins to 90 mins per day). This intensive program is designed to provide maximum impact within a short period, ensuring students are equipped with key coding skills in record time.
- The Students shall practice the daily assignment provided. It generally takes 60 to 90 mins to complete the daywise Assignments
- If students don't put in daily effort, it becomes challenging to fully benefit from the course.

5. Additional Benefits Offered by Codexpert

- **Bonus Training**: We provide an additional **100 hours of bonus training** covering advanced topics such as AI/ML basics, Data Structures, and Algorithmic problem-solving.

- **Live Project Experience**: Students will work on a **live project**, guided by industry experts.

- **Career Support**: We offer dedicated **placement assistance**, including mock interviews, resume-building workshops, and access to industry contacts.

- **Certification**: Every participant will receive a **CodeXpert Certification**, which is recognized by top tech companies.

6. Benefits for Students & University

For Students:

- **Industry-Ready Skills**: Students will master programming skills that are highly valued by top tech companies such as Microsoft, Google, and Amazon.

- **Versatile Skillset**: Learning multiple programming languages empowers students to easily adapt to any software environment.

- **Placement Advantage**: With over **100 hours saved** in placement preparation, students are better equipped to tackle interviews and coding challenges.

For the University:

- **Enhanced Reputation**: By partnering with **Codexpert - Oscar IT Solutions**, the university can offer cutting-edge coding education to its students, setting it apart as a leader in technology education.

- **Increased Placement Success**: With well-prepared students, the university will see improved placement rates and relationships with top tech companies.

- **Faculty Development**: We offer special sessions to train faculty members on the latest programming trends, so they stay ahead in teaching methodologies.

###**BONUS worth value INR 1,00,000/- Free**

Bonus: Extended Technologies Learning Support

In addition to our primary training module, we offer extensive support in various technologies, all worth ₹1,00,000/- and provided additionally for free:

- 1. *52 Hours of Journey to Salesforce with Placement Assistance*
- 2. *Mastering AI/ML*
- 3. *Prompt Engineering*
- 4. *LLM (Large Language Models)*
- 5. *Basic to Advanced Excel*
- 6. *Basic to Advanced PowerPoint Presentations*
- 7. *Basic to Advanced SQL*
- 8. *LinkedIn Portfolio Building*
- 9. *Corporate Communication*
- 10. *Mastering ChatGPT and Co-pilot*