CERTIFICATE

This is to certify that the industrial training entitled “ \_\_\_

“ is the bonafide work carried out by student of B.Tech. in Computer Science & Engineering at Jaipur Engineering College and Research Centre, during the year 2021-22 in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science & Engineering under my guidance.

**Name of Guide**

**Designation**

**Place:**

**Date:**

**VISION OF CSE DEPARTMENT**

To become renowned Centre of excellence in computer science and engineering and make competent engineers & professionals with high ethical values prepared for lifelong learning.

**MISSION OF CSE DEPARTMENT**

1. To impart outcome based education for emerging technologies in the field of computer science and engineering.
2. To provide opportunities for interaction between academia and industry.
3. To provide platform for lifelong learning by accepting the change in technologies
4. To develop aptitude of fulfilling social responsibilities.

**PROGRAM OUTCOMES (POs)**

**1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and Computer Science & Engineering specialization to the solution of complex Computer Science & Engineering problems.

**2. Problem analysis:** Identify, formulate, research literature, and analyse complex Computer Science and Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**3. Design/development of solutions:** Design solutions for complex Computer Science and Engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of Computer Science and Engineering experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex Computer Science Engineering activities with an understanding of the limitations.

**6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Computer Science and Engineering practice.

**7. Environment and sustainability:** Understand the impact of the professional Computer Science and Engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the Computer Science and Engineering practice.

**9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings in Computer Science and Engineering.

**10. Communication:** Communicate effectively on complex Computer Science and Engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**11. Project management and finance:** Demonstrate knowledge and understanding of the Computer Science and Engineering and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change in Computer Science and Engineering.

**PROGRAM EDUCATIONAL OBJECTIVES (PEOs)**

The PEOs of the B.Tech (CSE) program are:

1. To produce graduates who are able to apply computer engineering knowledge to provide turn-key IT solutions to national and international organizations.
2. To produce graduates with the necessary background and technical skills to work professionally in one or more of the areas like – IT solution design development and implementation consisting of system design, network design, software design and development, system implementation and management etc. Graduates would be able to provide solutions through logical and analytical thinking.
3. To able graduates to design embedded systems for industrial applications.
4. To inculcate in graduates effective communication skills and team work skills to enable them to work in multidisciplinary environment.
5. To prepare graduates for personal and professional success with commitment to their ethical and social responsibilities.

**PROGRAM SPECIFIC OUTCOMES (PSOs)**

|  |  |
| --- | --- |
| **PSO1** | Ability to interpret and analyze network specific, cyber security issues, automation in real world environment. |
| **PSO2** | Ability to design and develop mobile and web-based applications under realistic constraints. |

**COURSE OUTCOMES (COs)**

On completion of Industrial Training Graduates will be able to-

* CO1: Generate the report based on the Projects carried out for demonstrating the ability to apply the knowledge of engineering field during training
* CO2: Demonstrate Competency in relevant engineering fields through problem identification, formulation and solution.

**MAPPING: CO’s & PO’s**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Cos** | **Program Outcomes (POs)** | | | | | | | | | | | |
| **PO-1** | **PO-2** | **PO-3** | **PO-4** | **PO-5** | **PO-6** | **PO-7** | **PO-8** | **PO-9** | **PO-10** | **PO-11** | **PO-12** |
| **3CS7-30**  Industrial Training | **CO-1** | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 3 | 3 |
| **CO-2** | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 2 | 2 | 3 | 3 | 3 |

**ACKNOWLEDGEMENT**

It has been a great honour and privilege to undergo training at <Company Name>, <Place>. I am very grateful to <Company Person> giving his valuable time and constructive guidance in preparing the report for training. It would not have been possible to complete this report in short period of time without their kind encouragement and valuable guidance.

I wish to express our deep sense of gratitude to our Industrial Training Guide Mr./Ms.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, Jaipur Engineering College and Research Centre, Jaipur for guiding us from the inception till the completion of the industrial training. We sincerely acknowledge him for giving his valuable guidance, support for literature survey, critical reviews and comments for our industrial training.

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Also our warm thanks to **Jaipur Engineering College and Research Centre**, who provided us this opportunity to carryout, this prestigious industrial training and enhance our learning in various technical fields.

<**Student Name>**

<**Univ. Roll No.>**

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