

### Project Areas with Relevance

S. No.	Project Areas	Relevance
P1	Management Systems, Database Application& ERP	To implement such kind of management system for automation of real world problems
P2	Networking and communications	To gain knowledge about the mechanism and wise scope of networks
P3	Web Application	To be able to make their own website that can help them in entrepreneurship
P4	Android/IOS application	To widen their knowledge in various android/IOS applications which are widely used in smart phones now a days
P5	Embedded Application	To increase the practice in making embedded systems which are used in modern electronics
P6	Cloud Based Application	To increase the practice in making cloud based applications.
P7	Any Other Emerging Trends	To gain knowledge about the practice of emerging trends.

Projects are categorized in four levels: Excellent, good, average and Below Average on the basis of Project evaluation and patentability.

Excellent >85% marks

Good >75% - 85% marks

Average 60% - 75% marks

Below Average<60% marks

### Details of Major Projects Completed in academic year 2024-25

Sr. No	Title of the Project	Research Area	Skill Development	Category
1.	GramInsta	Web Application	HTML, TailWindCSS, TypeScript, framework React, Appwrite.	Excellent
2.	Body_mass_index detection from face	Machine Learning	Python, Machine Learning	Excellent
3.	Aeroscan	Digital Image Processing	Machine Learning, Computer Vision, Auto CAD, React, Flask	Excellent
4.	VoltEdge	Management Systems, Database Applications & ERP	Java, Java Swings, My SQL	Excellent
5.	Web Scraper	Web Application	Python	Excellent
6.	Amazon clone	Digital Image Processing	Html css java	Excellent

<b>7.</b>	Taskify - Task Management Appplication	Web Application	MERN STACK	Excellent
<b>8.</b>	SafeLocker	Web Application	Java 8 , HTML , CSS, JavaScript , MySQL	Excellent
<b>9.</b>	Meal Mystery	Android/IOS application	Java, Android, XML	Excellent
<b>10.</b>	Cryptography & Crypto currency	Web Application	HTML, CSS, Js	Excellent
<b>11.</b>	AI voice assistant	Artificial Intelligence	Python	Excellent
<b>12.</b>	Automated web server	Cloud Based Application	DevOps, Ansible	Excellent
<b>13.</b>	Wander Wave - Travel Website	Web Application	HTML, CSS, JavaScript	Excellent
<b>14.</b>	Crypto Prediction and Exchange platform	Networking and Communication	Blockchain, Ethereum, Metamask	Excellent
<b>15.</b>	Deep Fake Detection System	Machine Leaning	Python	Excellent
<b>16.</b>	OnRoad Vehicle Breakdown Assistance	Android/ IOS application	Java/kotlin, Android Studio	Excellent
<b>17.</b>	Stock Predicter	Artificial Intelligence	Python, AngularJS & MongoDB	Excellent
<b>18.</b>	Base location optimizer	Machine Leaning	flask, python	Excellent
<b>19.</b>	Real Estate Management App	Web Application	JavaScript	Excellent
<b>20.</b>	Object Identification Model	Computer Vision and detection	Yolo and Python	Excellent

### Details of Major Projects Completed in academic year 2023-24

Sr. No.	Title of the Project	Research Area	Skill Development	Category
1	Cyber security field	Networking and Communication	AWS	Excellent
2	EPC OAM GUI v1.0	Networking and Communication	Python, HTML, CSS, JS, Bootstrap	Excellent
3	Fast N fitness	Android/ IOS application	Android application	Excellent
4	Stock Market Forecasting	Artificial Intelligence	Python with AI	Excellent
5	Project Security	Networking and Communication	Penetration testing	Excellent
6	Anti Theft Android Application	Android/ IOS application	Java , Android Studio	Excellent
7	Ncom cbnd Cluster Lcm	Machine Learning	Java	Excellent
8	Emotion Recognition and age Detection Based AI Music System	Machine Learning	Python	Excellent
9	PGTECH--> Climacast	Artificial Intelligence	Python with AI	Excellent
10	Minist dataset	Artificial Intelligence	Python	Excellent
11	Find Vendor	Android/ IOS application	Android and Java, Firebase	Excellent
12	E-Book project	Web Application(E-shop)	Frontend	Excellent
13	IPSL	Networking and Communication	C, C++, Delphi, Scripting, bash, java	Excellent
14	Weekly Status Report Tool	Web Application	C#, .Net, Azure, Angular	Excellent
15	Traffic Sign Classifier	Artificial Intelligence	Artificial Intelligence	Excellent
16	Home device Manager(HDM)	Web Application	Java	Excellent

17	Smart agriculture system	Machine Learning	Python ml	Excellent
18	Patient Diagnosis Website	Web Application	JavaScript, Angular, Node, Java Springroot	Excellent
19	ISPM	Web Application	Angular, Typescript, Node, Java	Excellent
20	DOCEBO Learning Management System	Management System, Database application and ERP	Javascript, HTML, CSS	Excellent

### Details of Major Projects Completed in academic year 2022-23

Sr. No.	Title of the Project	Research Area	Skill Development	Category
1	Drona	Military, Security and Medical	Mechatronics, Deep Learning, ML, IoT	Excellent
2	Path finding Visualization	Path finding and Maze Generation	Web and Python	Excellent
3	Face Recognition attendance System	Machine Learning, Image Processing	Image Processing, Python, Machine Learning	Excellent
4	Mastrography	Medical	Python, Java, Android	Excellent
5	Edumate	Educational	Java, Firebase	Excellent
6	Brain Infection Detection from MRI Images with automatic report	Medical Image Processing	Medical Image Processing, Segmentation, Python, Computer Vision	Excellent
7	Quiz Mobile Application	Educational	Flutter, Firebase	Excellent
8	Virtual Assistance	Researching Important Data and Information Online	Python	Excellent
9	AI-Based Hand Gesture Recognition for Controlling Digital Presentations	Artificial Intelligence	Image Processing, Computer Vision, Machine Learning, AI Programming	Excellent
10	Sonar-Based Health Monitoring and Support Device	Health and Handicap Support	Computer Vision, Deep Learning, Data Mining, IoT	Excellent

### Details of Major Projects Completed in academic year 2021-22

Sr. No.	Title of the Project	Research Area	Skill Development	Category
1	Medikit E-commerce react app	Web Application	React, JavaScript	Excellent
2	Color Detection Using Open CV	Machine Learning	Python, Machine Learning	Excellent
3	Face Identification system	Digital Image Processing	Java	Excellent
4	Study Bank	Management Systems, Database Applications & ERP	PHP, MySQL, CSS	Excellent
5	Ceol: Social Media WebApplication	Web Application	PHP,HTML,CSS	Excellent
6	Image Filtering	Digital Image Processing	Python	Good
7	“MeetJam : Collaborative Drawing and Meeting Tool”	Web Application	JavaScript	Good
8	Connect-Four Game	Web Application	Java	Good
9	Electric Vehicle Ecosystem	Android/IOS application	Java, Python	Good
10	Car Rental System	Web Application	JavaScript, HTML, CSS	Good
11	Social distancing detector	Artificial Learning	Python	Average
12	GOMAIL (An Email Client)	Cloud Based Application	Visual Studio	Average
13	Chat Application	Web Application	HTML,CSS	Average
14	Hotel Room Booking	Management Systems, Database Applications & ERP	C++	Average
15	Supermarket Billing System	Cloud Based Application	Java	Average

**Details of Major Projects Completed in academic year 2020-21**

<b>Sr. No.</b>	<b>Title of the Project</b>	<b>Research Area</b>	<b>Skill Development</b>	<b>Category</b>
1	Face Mask detection and recognition with alert system	Digital Image Processing	Python, ML, Deep Learning, Google COLAB	Excellent
2	STACC TOES-Online Dance System	Web Application	HTML ,CSS, JAVA	Excellent
3	Speech Emotion Recognition	Digital Image Processing	Python, Machine Learning	Excellent
4	Sorting Visualizer	Cloud based Application	PHP, MySQL, JavaScript	Excellent
5	Covid -19 Analysis	Machine Learning	Python	Excellent
6	Hospital Healthbot	Android/IOS application	Python, MySQL	Good
7	Digital Locker Based on AES	Networking and communications	Encryption and Decryption algorithms	Good
8	Online Feedback System	Cloud Based application	Python, Java, PHP	Good
9	Smart Attendee Supervision Tool	Machine Learning and Deep Learning	JavaScript, CSS, Visual Studio	Good
10	Smart Home Automation	Embedded Application	IOT, Android	Good
11	Automatic Parking System	Android/IOS application	Visual Studio, Python, MySQL	Average
12	Guessing the Word Game	Management Systems, Database Applications & ERP	Python, Visual studio	Average

13	Virtual Assistant	Web Application	Python, SQL	Average
14	House Price Prediction Model	Machine Learning	Python, Machine Learning	Average
15	Music Player	Android/iOS application	Android Studio, XML	Average



### Details of Major Projects Completed in academic year 2019-20

Sr. No	Title of the Project	Research Area	Skill Development	Category
1	Burger King Billing Software	Management Systems, Database Applications & ERP	JAVA, Python	Excellent
2	IPL Data Analysis	Management Systems, Database Applications & ERP	Python, Jupyter	Excellent
3	Student Sitting Plan	Management Systems, Database Applications & ERP	Java	Excellent
4	E-commerce website	Web Application	PHP, SQL, Dreamweaver	Excellent
5	Web space Creator	Networking & Communications	PHP, SQL	Excellent
6	ADL(Ticket Reservation)	Management Systems, Database Applications & ERP	JAVA	Good
7	Gamers HUB	Android/IOS application	JSON,HTML	Good
8	Network Design for University Campus	Networking & Communications	CISCO packet tracer	Good
9	Online PG system	Web Application	VB.Net, SQL	Good
10	Blood Donation	Embedded Application	JAVA	Good
11	Central Monitoring System	Management Systems, Database Applications & ERP	JAVA	Average

12	Employee payroll system	Web Application	JAVA	Average
13	Smart attendance System	Management Systems, Database Applications & ERP	Python	Average
14	Placement Management system	Management Systems, Database Applications & ERP	JAVA	Average
15	Uni-weather	Web Application	Android	Average

#### Details of Major Projects Completed in academic year 2018-19

Sr. No.	Title of the Project	Research Area	Skill Development	Category
1	Traveller	Web Application	JSP, MySQL, CSS	Excellent
2	Forest Fire Detection	Digital Image Processing	Python	Excellent
3	Health Fitness	Android/IOS application	Android	Excellent
4	Online Book Retail Management Store	Management Systems, Database Application & ERP	JSP,HTML,CSS,JAVA	Excellent
5	Real Estate	Cloud Based Application	Dreamweaver, MySQL	Excellent
6	Placement Tracking Hub	Cloud Based Application	Java	Good
7	Online Cinema Reservation System	Management Systems, Database Application & ERP	Java, HTML, JSP	Good
8	Pet Social Web Application	Web Application	Java	Good
9	Web Based Exam Application	Web Application	Dreamweaver, Photoshop	Good
10	Browser And Desktop Automation	Web Application	HTML	Good

11	Mess Management System	Management Systems, Database Application & ERP	Java, HTML,CSS	Average
12	Will to work	Android/IOS application	Android	Average
13	Online Store	Android/IOS application	PHP, HTML	Average
14	E-school Management System	Management Systems, Database Application & ERP	JavaScript, HTML, MySQL	Average
15	Sales force activates plannerFun & Food Meals Express	Management Systems, Database Application & ERP	PHP	Average

  
 Head of department  
 Department of Computer Science & Engineering  
 Chandigarh Engineering College, Landran  
 Mohali, Punjab - 140307