

**HONOURS CERTIFICATE PROGRAMME PROPOSAL
AY 2022-2023**

Activities:

1. Internet of Things (Open to FY Phy, Sy Phy, FYIT, SYIT, TYIT)
2. MS Excel Essentials (Open to All streams of FY, SY and TY)
3. Essential Project Skill (Open only to SYIT, TYIT)

| General Information of the Activity | |
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| 1. | Department and Hub Physical Sciences |
| 2. | Title of the Activity Activity: Internet of Things |
| 3. | Name of the Professor taking the course Prof Vimala Rani |
| 4. | Name/s of the Resource person/s |
| 5. | Name of the Dept Coordinator and Email address subhash.kumar@xaviers.edu |
| 6. | Name of the Hub Coordinator and Email address abhilasha.jain@xaviers.edu |
| 7. | Number of credits for the activity and number of hours 1 |
| 8. | Fees 1500 |
| 9. | Eligibility SYBSc Phy, FYBSc Phy, SYIT, FYIT, TYIT |
| 10. | Number of students 30 |
| 11. | Duration and Time Starts from Aug 2022 |

| Details of the Activity | |
|--------------------------------|---|
| 1 | Title: Internet of Things: Understanding and Designing IoT Systems |
| 2 | <p>Learning Objectives:</p> <p>The aim of this course is to understand what is Internet of Things (IoT). IoT is used very much in current era. Understanding its architecture and its application along with web of things will be the aim of this course.</p> |
| 3 | <p>Learning Outcomes:</p> <p>Students will be aware of IoT and they can go further to make application or use application involving IoT.</p> |
| 4 | <p>Description</p> <p>Wireless technologies for the IoT , Technology and business drivers IoT and its importance, Web of Things versus Internet of Things</p> |
| 5 | <p>Modules if any</p> <p>Introduction to IoT Connectivity and networks Analytics and applications and Web of Things</p> |

**HONOURS CERTIFICATE PROGRAMME PROPOSAL
AY 2021-2022**

| General Information of the Activity | | |
|--|---|-------------------------------------|
| 1. | Department and Hub | Physical Sciences |
| 2. | Title of the Activity | Activity: MS Excel Essentials |
| 3. | Name of the Professor taking the course | |
| 4. | Name/s of the Resource person/s | Ashish Deora (Product Manager) |
| 5. | Name of the Dept Coordinator and Email address | subhash.kumar@xaviers.edu |
| 6. | Name of the Hub Coordinator and Email address | abhilasha.jain@xaviers.edu |
| 7 | Number of credits for the activity and number of hours | 2 |
| 8 | Fees | 1500 |
| 9 | Eligibility | FY, SY, TY any stream |
| 10 | Number of students | 30 |
| 11 | Duration and Time | Only Saturdays starts from Nov 2022 |

| Details of the Activity | |
|--------------------------------|--|
| 1 | Title: MS Excel Essentials |
| 2 | <p>Learning Objectives:</p> <p>To understand the use of excel in office and in industry. The various tools of excel will be taught.</p> |
| 3 | <p>Learning Outcomes:</p> <p>Students will become well versed with the use of excel to do many task easily and efficiently.</p> |
| 4 | <p>Description</p> <p>Starting from elementary techniques, the program scales to data analysis, visualization, and automation of day-to-day tasks; thus, opening the endless possibilities in MS Excel. MS Excel knowledge is very much required in industry.</p> |
| 5 | <p>Modules if any</p> <p>Basic Excel Advanced Excel</p> |

| General Information of the Activity | |
|-------------------------------------|--|
| 1. | Department and Hub Physical Sciences |
| 2. | Title of the Activity Activity: Essential Programming & IT Skills. |
| 3. | Name of the Professor taking the course Prof Subhash Kumar |
| 4. | Name/s of the Resource person/s |
| 5. | Name of the Dept Coordinator and Email address subhash.kumar@xaviers.edu |
| 6. | Name of the Hub Coordinator and Email address abhilasha.jain@xaviers.edu |
| 7. | Number of credits for the activity and number of hours 1 |
| 8. | Fees 1500 |
| 9. | Eligibility SYIT, TYIT |
| 10. | Number of students 30 |
| 11. | Duration and Time Starts from Sept 2022 |

| Details of the Activity | |
|-------------------------|--|
| 1. | Title: Essential Programming & IT Skills. |
| 2. | Learning Objectives: To understand the skill necessary in programming and that helps to build up application. |
| 3. | Learning Outcomes: Students will become well versed applying the right skill when they make an application. They will know of which programming language to use based on requirement. Which technology to use. |

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| 4 | Description This course will be taught by prof subhash who has wide experience in handling projects. He has experience in handling industry level projects also. Students taking this course must be well versed with any 2 programming languages and any 1 database. So, this course is open only for TYIT and SYIT students. |
| 5 | Modules if any |



ST. XAVIER'S COLLEGE - AUTONOMOUS, MUMBAI
Department of Information Technology
Honours Certificate Course (2021-2022)

Activity 1

Internet of Things: Understanding and Designing IoT Systems

Objective: The aim of this course is to understand what is Internet of Things (IoT). IoT is used very much in current era. Understanding its architecture and its application along with web of things will be the aim of this course.

Class: FYBSc Phy, SYBSc Phy, FYIT, SYIT, TYIT

No of Students: 30

Credits: 1

Course Fees: Rs 1500 /-

Methodology: Teaching and Assignment

Starts from: August/Sept 2022

Course Conducted By:

Prof. Vimala Rani

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Activity 2

MS Excel Essentials

Objective: Starting from elementary techniques, the program scales to data analysis, visualization, and automation of day-to-day tasks; thus, opening the endless possibilities in MS Excel. MS Excel knowledge is very much required in industry.

Class: FY, SY, TY any stream

No of Students: 30

Credits: 2

Course Fees: Rs 1500 /-

Methodology: Teaching and Assignment

Starts from: Nov 2022(Only Saturdays)

Course Conducted By:

Ashish Deora (Product Manager)

Activity 3

Essentials Programming and IT Skills

Objective: This course is only for SYIT and TYIT students. It aims in acquiring the right skill necessary for making an application. They will have clarity on which language and technology they can use. Students should already be familiar with 2 programming language and 1 database.

Class: SYIT, TYIT only

No of Students: 30

Credits: 1

Course Fees: Rs 1500 /-

Methodology: Teaching, Demonstration and Assignment

Starts from: Sept 2022(Saturdays)

Course Conducted By:

Prof Subhash Kumar