# ICT Department Capacity Building Schedule

## Phase 1 (November 2-4, 2024)

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| **Day** | **Date** | **Topic** | **Content** |
| Sat | November 2-4, 2024 | NoSQL | Prepare database environment, design and implement NoSQL structures |
| Sun | November 2-4, 2024 | Backend Development | Set up Node.js, develop REST APIs |
| Mon | November 2-4, 2024 | Backend Development | Enforce access control, logging, encryption |

## Phase 2 (November 8-10, 2024)

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| **Day** | **Date** | **Topic** | **Content** |
| Fri | November 8-10, 2024 | Frontend Development (React.js) | Integrate RESTful APIs, fetch/display data |
| Sat | November 8-10, 2024 | Frontend Development (React.js) | Style with Tailwind CSS, implement responsive design |
| Sun | November 8-10, 2024 | Frontend Development (React.js) | Setup React, apply JSX, components, props, and state |

## Phase 3 (November 15-17, 2024)

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| **Day** | **Date** | **Topic** | **Content** |
| Fri | November 15-17, 2024 | Blockchain | Define requirements, design architecture |
| Sat | November 15-17, 2024 | Blockchain | Implement and secure contracts |
| Sun | November 15-17, 2024 | Blockchain | Optimize gas usage, finalize contracts |

## Phase 4 (November 22-24, 2024)

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| **Day** | **Date** | **Topic** | **Content** |
| Fri | November 22-24, 2024 | PYTHON | Prepare python  Environment,  Write basic python  program |
| Sat | November 22-24, 2024 | PYTHON | Apply object-driven  in python |
| Sun | November 22-24, 2024 | MACHINE LEANING | ata preprocessing, visualization with Python |

## Phase 5 (November 30 - December 3, 2024)

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| **Day** | **Date** | **Topic** | **Content** |
| Sat | November 30 - December 3, 2024 | Mobile Development (Flutter) | Set up Flutter/Dart, UI with widgets |
| Sun | November 30 - December 3, 2024 | Mobile Development (Flutter) | Integrate backend, error handling |
| Mon | November 30 - December 3, 2024 | Mobile Development (Flutter) | 3. Integrate  backend  functionality |
| Tue | November 30 - December 3, 2024 | Mobile Development (Flutter) | Publish  Application |

## Phase 6 (December 18-23, 2024)

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| **Day** | **Date** | **Topic** | **Content** |
| Wed | December 18-23, 2024 | MACHINE LEARNING | Develop Machine Learning  Model |
| Thu | December 18-23, 2024 | MACHINE LEARNING | 3. Perform Model deployment |
| Fri | December 18-23, 2024 | DevOps Application | CI/CD, monitoring, performance analysis |
| Sat | December 18-23, 2024 | DEVEOPS | Implement  monitoring  strategiesbootloader setup |
| Sun | December 18-23, 2024 | Hobby Kernel | Interrupts, console output, initial kernel testing |
| Mon | December 18-23, 2024 | Hobby Kernel | Finalize kernel components, system calls |

## Phase 7 (December 27-29, 2024)

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| **Day** | **Date** | **Topic** | **Content** |
| Fri | December 27-31, 2024 | HOBBY KERNEL | 4.Implement persistence  management |
| Sat | December 27-29, 2024 | System Automation | Automation tools, Ladder Logic basics |
| Sun | December 27-29, 2024 | System Automation | PLC testing, troubleshooting, deployment |
| mon | Dec 31 2024 | SYSTEM AUTMOATION | DEVELOP AND Deploy PLC program |