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| Use Case Name: | Provide Updated Class Schedules. | |
| Scenario: | Provide Class Schedules. | |
| Triggering Event: | Start of a New Term. | |
| Brief Description: | To provide the updated class schedules resulting from merging, dissolution and petitioned courses and latest courses for the new term. | |
| Actors: | FACILITY and APCIS. | |
| Related Use Case: | * Checks Class Schedule Details | |
| Stakeholders: | Registrar. | |
| Preconditions: | A new term has started and/or the merging, dissolution and petitioned are consummated. | |
| Post Conditions: | System is provided with the latest and/or updated set of class schedules. | |
| Assumptions: | Class schedule provided is for the current term. | |
| Flow of Activities: | Registrar | APCIS |
| 1.0 Deploys new sets of class schedules | 2.0 Stores new sets of class schedules |
| Exception Conditions: | * No new sets of class schedules. | |

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| Use Case Name: | Checks Class Schedule Details. | |
| Scenario: | Operation of Facilities. | |
| Triggering Event: | Class Schedules. | |
| Brief Description: | Facility Management System checks the class schedules stored in APCIS to operate the facilities. | |
| Actors: | FACILITY and APCIS. | |
| Related Use Case: | * Activates the switch fuse and facilities in a room * Deactivates facilities and switch fuse in a room * Process feedback * Reactivation of facilities | |
| Stakeholders: | ITRO. | |
| Preconditions: | A set of class schedules has been provided. | |
| Post Conditions: | System will operate the facilities based on the set of class schedules provided. | |
| Assumptions: | Class schedule provided is updated. | |
| Flow of Activities: | APCIS | Facility |
| 1.0 Provides sets of class schedules | 2.0Checks class schedule provided by APCIS |
| Exception Conditions: | * Suspension of classes. | |

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| Use Case Name: | Report facility details | |
| Scenario: | Professor reports faulty facility | |
| Triggering Event: | Professor reported faulty facility details. | |
| Brief Description: | Professor sends report regarding faulty facility. | |
| Actors: | PROFESSOR and APCIS. | |
| Related Use Case: | * Process Reports | |
| Stakeholders: | PROFESSORS | |
| Preconditions: | Class has been started | |
| Post Conditions: | An ITRO personnel should accommodate the report | |
| Assumptions: | A class was scheduled | |
| Flow of Activities: | Professor | APCIS |
| 1.0 Professor reports faulty facility | 2.0 A new facility was provided |
| Exception Conditions: | * All the facilities in the room are working * Not in need of another facility | |

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| Use Case Name: | Activates the switch fuse and facilities in a room. | |
| Scenario: | Activation of the facilities. | |
| Triggering Event: | Based on Class Schedules. | |
| Brief Description: | Activates the switch fuse for air conditioner and air conditioner itself 15 minutes before the time allocated and switch fuse for other facilities is turned on based on the time allocated. | |
| Actors: | FACILITY and APCIS. | |
| Related Use Case: | * Checks Class Schedule Details * Deactivates facilities and switch fuse in a room * Process feedback * Checks class Status | |
| Stakeholders: | ITRO. | |
| Preconditions: | On the current time and given timeslot, there is a class. | |
| Post Conditions: | Lights, air condition and/or computers are activated. | |
| Assumptions: | There is a class on the current timeslot. | |
| Flow of Activities: | APCIS | Facility |
| 1. Provides sets of class schedules | 1. Checks class schedule provided by APCIS |
| Exception Conditions: | * No classes for the given timeslot * Suspension of classes | |

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| Use Case Name: | Deactivates facilities and switch fuse in a room. | |
| Scenario: | Deactivates the air conditioner, lights and/or computers and switch fuse. | |
| Triggering Event: | Turning off Facilities if:   * Professor is absent * Class is dismissed * Early dismissal * Class suspension | |
| Brief Description: | Deactivates the facilities in a room based on the class schedule provided by APCIS. | |
| Actors: | FACILITY and APCIS. | |
| Related Use Case: | * Checks Class Schedule Details * Activates switch fuse and facilities in a room * Process feedback * Check Subject * Check Class Type * Checks Professor Attendance * Checks Class Status * Checks Movements * Check Class Schedule | |
| Stakeholders: | Registrar and ITRO. | |
| Preconditions: | After the 5 number of minutes that the sensors had not detected any movement in a room. | |
| Post Conditions: | Lights, air condition and/or computers are deactivated. | |
| Assumptions: | * Professor is absent * Class is dismissed * Early dismissal * Class suspension | |
| Flow of Activities: | APCIS | Facility |
| 1.0 Provides sets of class schedules | 2.0 Checks class schedule provided by APCIS and other preconditions |
| Exception Conditions: | * Class is ongoing * Professor is present for the current timeslot * No suspension of classes | |

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| Use Case Name: | Reactivation of facilities. | |
| Scenario: | Reactivating the facilities in a room. | |
| Triggering Event: | Professor is late or the people using the room had to go out for more than 5 minutes. | |
| Brief Description: | Reactivates the switch fuse for all the facilities used in the room and facilities. | |
| Actors: | FACILITY and APCIS. | |
| Related Use Case: | * Checks Class Schedule Details * Activates the fuse switch and facilities in a room * Deactivates facilities and switch fuse in a room * Checks Class Status * Checks Professor Attendance * Checks Class Schedule * Checks Movements | |
| Stakeholders: | ITRO. | |
| Preconditions: | Operation of Facilities. | |
| Post Conditions: | Process feedback provided by the facilities. | |
| Assumptions: | Facility was either turned on or off. | |
| Flow of Activities: | APCIS | Facility |
| 1.0 Provides sets of class schedules | 2.0 Provides feedback base on its operation |
| Exception Conditions: | * No suspension of classes | |

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| Use Case Name: | Sends Feedback. | |
| Scenario: | Facility Sends Feedback. | |
| Triggering Event: | The time facilities are turned on and/or off. | |
| Brief Description: | System provides feedback base on the behavior of the facility. | |
| Actors: | FACILITY and APCIS. | |
| Related Use Case: | * Checks Class Schedule Details * Activates switch fuse and facilities in a room * Deactivates facilities in a room | |
| Stakeholders: | ITRO. | |
| Preconditions: | Operation of Facilities. | |
| Post Conditions: | Process feedback provided by the facilities. | |
| Assumptions: | Facility was either turned on or off. | |
| Flow of Activities: | APCIS | Facility |
| 1.0 Provides sets of class schedules | 2.0 Provides feedback base on its operation |
| Exception Conditions: | * No suspension of classes | |

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| Use Case Name: | Process Report | |
| Scenario: | Both professor reports and processed feedback are consolidated. | |
| Triggering Event: | Received professor reported state of facility and/or feedback from facility. | |
| Brief Description: | Professor reports about the state of the facility and is processed together with the facilities’ feedback. | |
| Actors: | PROFESSOR and APCIS. | |
| Related Use Case: | * Process Feedback * Activates switch fuse and facilities in a room * Deactivates facilities and switch fuse in a room | |
| Stakeholders: | PROFESSORS and ITRO. | |
| Preconditions: | Operation of facilities. | |
| Post Conditions: | Activates the facility | |
| Assumptions: | * Facility is operating * A faulty facility in a room | |
| Flow of Activities: | Professor | APCIS |
| 1. Professor request for reactivation | 3.0 Assess the request |
| Exception Conditions: | * Rooms are activated | |

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| Use Case Name: | Reactivation of facilities. | |
| Scenario: | Reactivating the facilities in a room. | |
| Triggering Event: | Professor is late or the people using the room had to go out for more than 5 minutes. | |
| Brief Description: | Professor wants to reactivate room | |
| Actors: | PROFESSOR and APCIS. | |
| Related Use Case: | * Process Feedback * Activates switch fuse and facilities in a room * Deactivates switch fuse and facilities in a room | |
| Stakeholders: | PROFESSORS and ITRO. | |
| Preconditions: | Operation of facilities. | |
| Post Conditions: | Feedback and report if any, is processed | |
| Assumptions: | * Facility deactivates | |
| Flow of Activities: | Professor | APCIS |
| 1. Uses facility 2. Reports faulty facility, if any | 3.0 Assess the report |
| Exception Conditions: | * No suspension of classes | |

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| Use Case Name: | Check Class Status | |
| Scenario: | System checks class status | |
| Triggering Event: | Operations of the facilities | |
| Brief Description: | System checks class status to start facility operations | |
| Actors: | FACILITY and APCIS. | |
| Related Use Case: | * Deactivates switch fuse and facilities in a room * Reactivation of facilities | |
| Stakeholders: | PROFESSORS | |
| Preconditions: | Operation of facilities. | |
| Post Conditions: | Set status for the facility | |
| Assumptions: | * A class will start after several minutes | |
| Flow of Activities: | Facility | APCIS |
| 2.0 Activates or Deactivate | 1.0 Checks Class status |
| Exception Conditions: | * No Scheduled Class | |

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| Use Case Name: | Check Class Type | |
| Scenario: | System checks class type | |
| Triggering Event: | Operations of the facilities | |
| Brief Description: | System checks class status to start facility operations | |
| Actors: | FACILITY and APCIS. | |
| Related Use Case: | * Deactivates switch fuse and facilities in a room | |
| Stakeholders: | PROFESSORS | |
| Preconditions: | Operation of facilities. | |
| Post Conditions: | Set status for the facility | |
| Assumptions: | * A class will start after several minutes | |
| Flow of Activities: | Facility | APCIS |
| 2.0 Activates or Deactivate | 1.0 Checks Class types |
| Exception Conditions: | * No Scheduled Class | |

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| Use Case Name: | Check Subject | |
| Scenario: | System checks Subject | |
| Triggering Event: | Operations of the facilities | |
| Brief Description: | System checks class subject to start facility operations | |
| Actors: | FACILITY and APCIS. | |
| Related Use Case: | * Deactivates switch fuse and facilities in a room | |
| Stakeholders: | PROFESSORS | |
| Preconditions: | Operation of facilities. | |
| Post Conditions: | Set status for the facility | |
| Assumptions: | * A class will start after several minutes | |
| Flow of Activities: | Facility | APCIS |
| 2.0 Activates or Deactivate | 1.0 Checks Subject |
| Exception Conditions: | * No Scheduled Class | |

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| Use Case Name: | Check Professor Attendance | |
| Scenario: | System checks professor attendance | |
| Triggering Event: | Operations of the facilities | |
| Brief Description: | System checks professor to start facility operations | |
| Actors: | FACILITY and APCIS. | |
| Related Use Case: | * Deactivates switch fuse and facilities in a room * Reactivation of facilities | |
| Stakeholders: | PROFESSORS | |
| Preconditions: | Operation of facilities. | |
| Post Conditions: | Set status for the facility | |
| Assumptions: | * A class will start after several minutes | |
| Flow of Activities: | Facility | APCIS |
| 2.0 Activates or Deactivate | 1.0 Checks Professor Attendance |
| Exception Conditions: | * No Scheduled Class | |

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| Use Case Name: | Check movements | |
| Scenario: | System checks movements | |
| Triggering Event: | Operations of the facilities | |
| Brief Description: | System checks class movements to deactivate the facilities | |
| Actors: | FACILITY and APCIS. | |
| Related Use Case: | * Deactivates switch fuse and facilities in a room * Reactivation of facilities | |
| Stakeholders: | PROFESSORS | |
| Preconditions: | Operation of facilities. | |
| Post Conditions: | Set status for the facility | |
| Assumptions: | * A class will start after several minutes | |
| Flow of Activities: | Facility | APCIS |
| 2.0 Activates or Deactivate | 1.0 Checks movements |
| Exception Conditions: | * No Scheduled Class | |