

Attendance Report Generation

The Attendance Report Generation feature allows lecturers or administrators to generate student attendance records for a selected class and date range. The lecturer enters their ID and class code, then selects the required date range. The system validates the class code before retrieving and filtering the relevant attendance data. If the attendance records are found, the system generates an attendance report; otherwise, an appropriate message is displayed. This feature helps lecturers to manage student attendance efficiently and reduces manual errors in record-keeping.

PSEUDOCODE

1. START
2. INPUT lecturerID
3. INPUT classCode, dateRange
4. WHILE classCode is NOT valid DO
 5. DISPLAY "Invalid Class Code. Please re-enter Class Code and Date Range"
 6. INPUT classCode, dateRange
7. END WHILE
8. RETRIEVE attendanceRecords using classCode and dateRange
9. IF attendanceRecords are found THEN
 10. GENERATE attendanceReport
 11. FOR each student in attendanceRecords DO
 12. CALCULATE attendancePercentage = (classesAttended/totalClasses) * 100%
 13. IF attendancePercentage >= 80% THEN
 14. DISPLAY "Eligible for Final Exam"
 15. ELSE
 16. DISPLAY "Not Eligible for Final Exam"
 17. END IF
 18. DISPLAY studentID, subjectName, totalClasses, classAttended, classesLate, classesExcused, attendancePercentage, status
 19. END FOR
 20. IF export attendanceReport THEN
 21. EXPORT attendanceReport to PDF
 22. ELSE
 23. DISPLAY attendanceReport on screen

24. END IF
25. ELSE
26. DISPLAY "No Attendance Records Found"
27. END IF
28. END

FLOWCHART

