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User Manual

This manual is written for the Prolog program named courseAdvisor. The software used to run this program is SWI-Prolog. There are 5 functionalities of this program:

- Show list of available courses for the semester
 - Based on user's semester and MUET band, it will display a list of available courses that is comprised of the course code and course name.
- Consult how many courses / credits to take for the semester
 - Based on users' semester and MUET band, it will display a list of courses that is comprised of course code, course name, and their credit hours. This functionality will also display the total number of courses and credit hours to take for the semester.
- Check courses prerequisites
 - Based on users' semester and MUET band, it will display a list of courses that is comprised of course code, course name, and their prerequisites.
- Check best courses to take for the semester
 - Based on users' semester, MUET band and previous CGPA, it will display a list of best courses to take. The list of courses is comprised of course code, course name and advice on what type of courses to take. The type of courses are core, program and elective.
- Exit the program
 - This functionality will terminate the program and closes SWI-Prolog.

1 Start the program

```
1 ?- start.■
```

2 Choose an option within the range of 1 to 5

```
Hello, Welcome to FCSIT Intelligent Course Advisor!
```

```
-----  
1. Show list of available courses for the semester  
2. Consult how many courses/credits to take for the semester  
3. Check courses prerequisites  
4. Check best courses to take for the semester  
5. Exit the program  
-----
```

```
Enter your choice: 2.■
```

3 Option 1 - Show list of available courses for the semester

3.1 Enter semester within the range of 1 to 8

```
Enter Semester [1-8]:  
|: 1.
```

3.2 Enter MUET band using letter a, b or c

```
MUET Band  
-----
```

```
a. Band 1, 2  
b. Band 3  
c. Band 4, 5, 6
```

```
Enter MUET Band [a|b|c]: |: c.■
```

3.3 View list of available courses in semester

```
-----  
The list of available courses for Semester 5  
-----
```

```
TMF3113 Project_Management  
TMF3012 Ethics_and_Professionalism  
TME3033 Expert_Systems  
TME3413 Software_Engineering_Laboratory  
TME3423 Human_Computer_Interaction  
ABCXXXX Elective_II  
MPU3312 Malay_Language
```

```
% Execution Aborted  
?-
```

4 Option 2 – Consult how many courses / credit hours to take for the semester

4.1 Enter semester within the range of 1 to 8

```
Enter Semester [1-8]:  
|: 1.
```

4.2 Enter MUET band using letter a, b or c

```
MUET Band  
-----
```

```
a. Band 1, 2  
b. Band 3  
c. Band 4, 5, 6
```

```
Enter MUET Band [a|b|c]: |: c.■
```

4.3 View list of courses to take with credit hours

```
-----  
Courses that You Should Take  
-----  
  
Course: TMF4034 Technopreneurship_and_Product_Development  
Credit Hours: 4  
  
Course: TME4013 Formal_Methods  
Credit Hours: 3  
  
Course: TME4113 Data_Mining  
Credit Hours: 3  
  
Course: TMF4913 Final_Year_Project_I  
Credit Hours: 3  
  
Course: ABCXXXX Elective_III  
Credit Hours: 3  
  
  
You need to take 5 courses with a total of 16 credit hours.  
% Execution Aborted
```

5 Option 3 - Check course prerequisites

5.1 Enter semester within the range of 1 to 8

```
Enter Semester [1-8]:  
|: 1.
```

5.2 Enter MUET band using letter a, b or c

```
MUET Band  
-----  
  
a. Band 1, 2  
b. Band 3  
c. Band 4, 5, 6  
  
Enter MUET Band [a|b|c]: |: c.■
```

5.3 View list of courses and their prerequisites for the semester

```
List of Courses for Semester 7 and their prerequisites
-----
Course: TMF4034 Technopreneurship_and_Product_Development
Prerequisite: None

Course: TME4013 Formal_Methods
Prerequisite: TMF1814 Discrete Mathematics

Course: TME4113 Data_Mining
Prerequisite: None

Course: TMF4913 Final_Year_Project_I
Prerequisite: TMF3113 Project_Management

Course: ABCXXXX Elective_III
Prerequisite: None

% Execution Aborted
?- ■
```

6 Option 4 – Check best courses to take for the semester

6.1 Enter semester within the range of 1 to 8

```
Enter Semester [1-8]:
|: 1.
```

6.2 Enter MUET band using letter a, b or c

```
MUET Band
-----
a. Band 1, 2
b. Band 3
c. Band 4, 5, 6

Enter MUET Band [a|b|c]: |: c.■
```

6.3 Enter previous GPA

```
Enter Previous GPA [E.g. 3.50]:
|: 3.
```

6.4 View list of best courses to take for the semester

```
-----  
Best Courses to Take for Semester 7  
-----  
  
TMF4034 Technopreneurship_and_Product_Development  
TME4013 Formal_Methods  
TME4113 Data_Mining  
TMF4913 Final_Year_Project_I  
ABCXXXX Elective_III  
  
It is advisable for you to take all courses in the semester.  
% Execution Aborted  
?-
```

7 Option 5 – Exit the program

Close the program including SWI-Prolog.