

**DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING (CSE)**

[illegible]

BRIEFLY

The following program allows the user to choose programme and appropriate semester,, by the which the program will display the consecutive coarses of the chosen programme.

```
script.sh - Downloads - Code - OSS
File Edit Selection View Go Run Terminal Help
$ script.sh x
$ script.sh
1  #!/bin/bash
2
3  declare -A programme
4  declare -A coarses
5
6
7  programme["1"]="Bachelor of Cyber security and digital forensic Engineering"
8  programme["2"]="Bachelor of Computer Engineering"
9  programme["3"]=" Bachelor of Software Engineering"
10
11
12
13  coarse["1,1"]="\n\t1.CP212 \n\t2.CP215"
14  coarse["1,2"]="\n\t1.SAD212 \n\t2.CP213"
15
16  coarse["2,1"]="\n\t1.IA123 \n\t2.CP214"
17  coarse["2,2"]="\n\t1.CT121 \n\t2.CP213"
18
19
20  coarse["3,1"]="\n\t1.ST123 \n\t2.CP209"
21  coarse["3,2"]="\n\t1.SAD214 \n\t2.IS232"
22
23
24  function show_coarses() {
25      local programmes=$1
26      local semester=$2
27
28      echo -e "\n\t The coarses for \"${programme[$programmes]}\" in $semester Semester:"
29      echo -e "${coarse[$programmes,$semester]}"
30  }
31
```

```
script.sh - Downloads - Code - OSS
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$ script.sh x
$ script.sh
36  function choose_semester() {
37      local programmes=$1
38
39      echo -e "\n\n\t CHOOSE SEMESTER:\n\t1. Semester One\n\t2. Semester Two\n"
40
41      echo -e -n "\tSemester :: "
42      read semesterChoice
43
44
45      case $semesterChoice in
46      1) show_coarses "$programmes" "$semesterChoice" ;;
47      2) show_coarses "$programmes" "$semesterChoice" ;;
48      *)
49          echo "Invalid input. Please enter a number between 1 and 2."
50          exit 0
51          ;;
52      esac
53  }
54
55
56  function show_home_menu() {
57
58      echo -e "\n\n\t\t THE AVAILBLE COARSES AND PROGRAMMES:\n\t1. Bachelor of CyberSecurity and Digital Forensic Engineering\n\t2. Ba
59      echo -e -n "\tProgramme:: "
60      read programmeChoice
61
62
63      if [ -n "$programmeChoice" ]; then
64          # Validate user input
65          case $programmeChoice in
66          1) choose_semester "$programmeChoice" ;;
```

```
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$ script.sh x
$ script.sh
54 }
55
56 function show_home_menu() {
57
58     echo -e "\n\n\t\t THE AVAILBLE COARSES AND PROGRAMMES:\n\t1. Bachelor of CyberSecuriry and Digital Forensic Engineering\n\t2. Ba
59     echo -e -n "\t Programme:: "
60     read programmeChoice
61
62
63     if [ -n "$programmeChoice" ]; then
64         # Validate user input
65         case $programmeChoice in
66             1) choose_semester "$programmeChoice" ;;
67             2) choose_semester "$programmeChoice" ;;
68             3) choose_semester "$programmeChoice" ;;
69             *)
70                 echo "Invalid input. Please enter a number between 1 and 3."
71                 exit 0
72                 ;;
73             esac
74         else
75             echo "Invalid input. The programme choice cannot be left empty!!"
76             exit 0
77         fi
78     }
79
80     show_home_menu
81
82 }
```

OUTPUT

```
masterplan@kali: ~
(masterplan@kali)-[~]
$ ./script.sh

      THE AVAILBLE COARSES AND PROGRAMMES:
1. Bachelor of CyberSecuriry and Digital Forensic Engineering
2. Bachelor of Computer Engineering
3. Bachelor of Software Engineering

Programme:: 1

CHOOSE SEMESTER:
1. Semester One
2. Semester Two

Semester :: 1

The coarces for "Bachelor of Cyber security and digital forensic Engineering" in 1 Semester:

1.ST123
2.CP209
(masterplan@kali)-[~]
$
```