

Endpoint Being Tested: http://127.0.0.1:5000/all_courses

Case: *Successful course listing*

Request Method: GET

Inputs:

```
{}
```

Expected Output:

HTTP Status Code: 200 and a list of courses

Actual Output:

HTTP Status Code: 200

Response: [

```
{
  "course_id": 1,
  "course_name": "Programming in Python",
  "course_code": "BSCS1002",
  "description": null,
  "level": "Foundational",
  "type": "Programming",
  "image": null,
  "instructors": [],
  "students": [],
  "assignments": null
},
{
  "course_id": 2,
  "course_name": "Software Enginnering",
  "course_code": "BSCS3001",
  "description": null,
  "level": "Degree",
  "type": "Programming",
  "image": null,
  "instructors": [],
  "students": [],
  "assignments": null
},
{
  "course_id": 3,
  "course_name": "Machine Learning Practice",
  "course_code": "BSCS2008",
```

```
    "description": null,  
    "level": "Diploma",  
    "type": "Data Science",  
    "image": null,  
    "instructors": [],  
    "students": [],  
    "assignments": null  
  }  
]
```

Result: Success

Endpoint Being Tested: http://127.0.0.1:5000/all_courses

Case: *Invalid method used for course listing*

Request Method: POST

Inputs:

```
{}
```

Expected Output:

```
HTTP Status Code: 405 and method not allowed error
```

Actual Output:

```
HTTP Status Code: 405  
JSON: {"message": "The method is not allowed for the requested URL."}
```

Result: Success

Endpoint Being Tested: <http://127.0.0.1:5000/course>

Case: *Create a new course*

Request Method: POST

Inputs:

```
{
  "course_name": "Test Course",
  "course_code": "TC101",
  "level": "Diploma",
  "type": "Programming",
  "description": "This is a test course."
}
```

Expected Output:

HTTP Status Code: 201 and course created successfully

Actual Output:

HTTP Status Code: 201
JSON: {"message": "Course created successfully", "course_id": 1}

Result: Success

Endpoint Being Tested: http://127.0.0.1:5000/course/1

Case: *Get an individual course*

Request Method: GET

Inputs:

```
{}
```

Expected Output:

HTTP Status Code: 200 and course details

Actual Output:

HTTP Status Code: 200
JSON: {"course_id": 1, "course_name": "Machine Learning Practice", "course_code": "BSCS2008", "description": null, "level": "Diploma", "type": "Data Science", "image": null, "instructors": [], "students": [], "assignments": null}

Result: Success

Endpoint Being Tested: <http://127.0.0.1:5000/course/1>

Case: *Update an existing course*

Request Method: PUT

Inputs:

```
{  
  "course_name": "Updated Test Course",  
  "description": "Updated description"  
}
```

Expected Output:

```
HTTP Status Code: 200 and course updated successfully
```

Actual Output:

```
HTTP Status Code: 200  
JSON: {"message": "Course details updated successfully"}
```

Result: Success

Endpoint Being Tested: <http://127.0.0.1:5000/course/1>

Case: *Delete an existing course*

Request Method: DELETE

Inputs:

```
{}
```

Expected Output:

```
HTTP Status Code: 200 and course deleted successfully
```

Actual Output:

```
HTTP Status Code: 200  
JSON: {"message": "Course deleted successfully"}
```

Result: *Success*
