

# Package ‘vvtermtime’

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**Type** Package

**Title** Interface for 'Semestry TermTime' Services

**Version** 0.1.0

**Description** Provides an R interface for interacting with the 'Semestry TermTime' services.

It allows users to retrieve scheduling data from the API. see

<[https:](https://github.com/vusaverse/vvtermtime/blob/main/openapi_7.7.0.pdf)

[//github.com/vusaverse/vvtermtime/blob/main/openapi\\_7.7.0.pdf](https://github.com/vusaverse/vvtermtime/blob/main/openapi_7.7.0.pdf)> for details.

**URL** <https://github.com/vusaverse/vvtermtime>,

<https://vusaverse.github.io/vvtermtime/>

**License** MIT + file LICENSE

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authenticate	<i>Authenticate with Semestry Termtime API</i>
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**Description**

This function authenticates with the Semestry Termtime API by verifying the API key and base URL. It returns an authenticated Semestry object that can be used for subsequent API calls.

**Usage**

```
authenticate(api_key, base_url)
```

**Arguments**

api\_key            The API key for Semestry.  
base\_url           The base URL of the Semestry API.

**Value**

An authenticated Semestry object.

---

*get\_activities*            *Retrieve activity data from the Semestry API*

---

**Description**

This function sends a GET request to the activities endpoint of the Semestry API and retrieves the activity data.

**Usage**

```
get_activities(semestry, timeout = 30)
```

**Arguments**

semestry            An authenticated Semestry object.  
timeout             The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved activity data from the API.

---

*get\_activities\_report\_attr*  
*Retrieve activity report attr from the Semestry API*

---

**Description**

This function sends a GET request to the report room endpoint of the Semestry API and retrieves the room booking data.

**Usage**

```
get_activities_report_attr(semestry, timeout = 30)
```

**Arguments**

semestry            An authenticated Semestry object.  
timeout             The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved activity report data from the API.

---

get\_activities\_report\_sche

*Retrieve activity report schedule from the Semestry API*

---

**Description**

This function sends a GET request to the report room endpoint of the Semestry API and retrieves the room booking data.

**Usage**

```
get_activities_report_sche(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved activity report data from the API.

---

get\_activity\_groups

*Retrieve activity group data from the Semestry API*

---

**Description**

This function sends a GET request to the activity groups endpoint of the Semestry API and retrieves the activity group data.

**Usage**

```
get_activity_groups(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved activity group data from the API.

---

`get_activity_templates`*Retrieve activity template data from the Semestry API*

---

**Description**

This function sends a GET request to the activity templates endpoint of the Semestry API and retrieves the activity template data.

**Usage**

```
get_activity_templates(semestry, timeout = 30)
```

**Arguments**

<code>semestry</code>	An authenticated Semestry object.
<code>timeout</code>	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved activity template data from the API.

---

`get_activity_types`*Retrieve activity type data from the Semestry API*

---

**Description**

This function sends a GET request to the activity types endpoint of the Semestry API and retrieves the activity type data.

**Usage**

```
get_activity_types(semestry, timeout = 30)
```

**Arguments**

<code>semestry</code>	An authenticated Semestry object.
<code>timeout</code>	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved activity type data from the API.

---

get\_assessment\_types    *Retrieve assessment type data from the Semestry API*

---

**Description**

This function sends a GET request to the assessment types endpoint of the Semestry API and retrieves the assessment type data.

**Usage**

```
get_assessment_types(semestry, timeout = 30)
```

**Arguments**

semestry            An authenticated Semestry object.  
timeout            The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved assessment type data from the API.

---

get\_booking\_types        *Retrieve booking type data from the Semestry API*

---

**Description**

This function sends a GET request to the booking types endpoint of the Semestry API and retrieves the booking type data.

**Usage**

```
get_booking_types(semestry, timeout = 30)
```

**Arguments**

semestry            An authenticated Semestry object.  
timeout            The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved booking type data from the API.

---

get_buildings	<i>Retrieve building data from the Semestry API</i>
---------------	---

---

**Description**

This function sends a GET request to the buildings endpoint of the Semestry API and retrieves the building data.

**Usage**

```
get_buildings(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved building data from the API.

---

get_campuses	<i>Retrieve campus data from the Semestry API</i>
--------------	---

---

**Description**

This function sends a GET request to the campuses endpoint of the Semestry API and retrieves the campus data.

**Usage**

```
get_campuses(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved campus data from the API.

---

get_capabilities	<i>Retrieve capability data from the Semestry API</i>
------------------	---

---

**Description**

This function sends a GET request to the capabilities endpoint of the Semestry API and retrieves the capability data.

**Usage**

```
get_capabilities(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved capability data from the API.

---

get_contact_requirements	<i>Retrieve contact requirement data from the Semestry API</i>
--------------------------	--

---

**Description**

This function sends a GET request to the contact requirements endpoint of the Semestry API and retrieves the contact requirement data.

**Usage**

```
get_contact_requirements(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved contact requirement data from the API.



---

get_courses	<i>Retrieve course data from the Semestry API</i>
-------------	---

---

**Description**

This function sends a GET request to the courses endpoint of the Semestry API and retrieves the course data.

**Usage**

```
get_courses(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved course data from the API.

**Examples**

```
## Not run:  
semestry <- authenticate_semestry()  
get_courses(semestry)  
  
## End(Not run)
```

---

get_database	<i>Retrieve data from the Semestry API database endpoint</i>
--------------	--

---

**Description**

This function sends a GET request to the database endpoint of the Semestry API and retrieves the data.

**Usage**

```
get_database(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved data from the API database.

---

get_departments	<i>Retrieve department data from the Semestry API</i>
-----------------	---

---

**Description**

This function sends a GET request to the departments endpoint of the Semestry API and retrieves the department data.

**Usage**

```
get_departments(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved department data from the API.

---

get_floors	<i>Retrieve floor data from the Semestry API</i>
------------	--

---

**Description**

This function sends a GET request to the floors endpoint of the Semestry API and retrieves the floor data.

**Usage**

```
get_floors(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved floor data from the API.

---

get_modules	<i>Retrieve module data from the Semestry API</i>
-------------	---

---

**Description**

This function sends a GET request to the modules endpoint of the Semestry API and retrieves the module data.

**Usage**

```
get_modules(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved module data from the API.

---

get_offers	<i>Retrieve offers from the Semestry API</i>
------------	--

---

**Description**

This function sends a GET request to the offers endpoint of the Semestry API and retrieves the offers.

**Usage**

```
get_offers(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved offers from the API.

**Examples**

```
## Not run:
  semestry <- authenticate_semestry()
  get_offers(semestry)

## End(Not run)
```

---

`get_ping`*Ping the Semestry API*

---

**Description**

This function sends a GET request to the ping endpoint of the Semestry API to check connectivity.

**Usage**

```
get_ping(semestry, timeout = 30)
```

**Arguments**

`semestry` An authenticated Semestry object.  
`timeout` The timeout duration for the GET request (default: 30 seconds).

**Value**

The ping response from the API.

---

`get_report_booking`*Retrieve booking report from the Semestry API*

---

**Description**

This function sends a GET request to the report booking endpoint of the Semestry API and retrieves the booking booking data.

**Usage**

```
get_report_booking(semestry, timeout = 30)
```

**Arguments**

`semestry` An authenticated Semestry object.  
`timeout` The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved report booking data from the API.

---

get_report_room	<i>Retrieve room report from the Semestry API</i>
-----------------	---

---

**Description**

This function sends a GET request to the report room endpoint of the Semestry API and retrieves the room booking data.

**Usage**

```
get_report_room(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved report room data from the API.

---

get_roombookings	<i>Retrieve room booking data from the Semestry API</i>
------------------	---

---

**Description**

This function sends a GET request to the roombookings endpoint of the Semestry API and retrieves the room booking data.

**Usage**

```
get_roombookings(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved room booking data from the API.

---

get\_rooms *Retrieve room data from the Semestry API*

---

**Description**

This function sends a GET request to the rooms endpoint of the Semestry API and retrieves the room data.

**Usage**

```
get_rooms(semestry, timeout = 30)
```

**Arguments**

semestry      An authenticated Semestry object.  
timeout      The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved room data from the API.

**Examples**

```
## Not run:  
semestry <- authenticate_semestry()  
get_rooms(semestry)  
  
## End(Not run)
```

---

get\_room\_relationships *Retrieve room relationship data from the Semestry API*

---

**Description**

This function sends a GET request to the room relationships endpoint of the Semestry API and retrieves the room relationship data.

**Usage**

```
get_room_relationships(semestry, timeout = 30)
```

**Arguments**

semestry      An authenticated Semestry object.  
timeout      The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved room relationship data from the API.

---

get\_schedule\_rooms      *Retrieve schedule rooms data from the Semestry API*

---

**Description**

This function sends a GET request to the schedule/rooms endpoint of the Semestry API and retrieves the schedule rooms data.

**Usage**

```
get_schedule_rooms(semestry, timeout = 30)
```

**Arguments**

semestry      An authenticated Semestry object.  
timeout      The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved schedule rooms data from the API.

---

get\_staff      *Retrieve staff data from the Semestry API*

---

**Description**

This function sends a GET request to the staff endpoint of the Semestry API and retrieves the staff data.

**Usage**

```
get_staff(semestry, timeout = 30)
```

**Arguments**

semestry      An authenticated Semestry object.  
timeout      The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved staff data from the API.

**Examples**

```
## Not run:
  semestry <- authenticate_semestry()
  get_staff(semestry)

## End(Not run)
```

---

get\_staff\_groups      *Retrieve staff group data from the Semestry API*

---

**Description**

This function sends a GET request to the staff groups endpoint of the Semestry API and retrieves the staff group data.

**Usage**

```
get_staff_groups(semestry, timeout = 30)
```

**Arguments**

semestry      An authenticated Semestry object.  
timeout      The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved staff group data from the API.

---

get\_staff\_pools      *Retrieve staff pools from the Semestry API*

---

**Description**

This function sends a GET request to the staffpools endpoint of the Semestry API and retrieves the staff pools.

**Usage**

```
get_staff_pools(semestry, timeout = 30)
```

**Arguments**

semestry      An authenticated Semestry object.  
timeout      The timeout duration for the GET request (default: 30 seconds).



**Value**

The retrieved staff pools from the API.

---

get_students	<i>Retrieve student data from the Semestry API</i>
--------------	--

---

**Description**

This function sends a GET request to the students endpoint of the Semestry API and retrieves the student data.

**Usage**

```
get_students(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved student data from the API.

**Examples**

```
## Not run:  
semestry <- authenticate_semestry()  
get_students(semestry)  
  
## End(Not run)
```

---

get_student_groups	<i>Retrieve student group data from the Semestry API</i>
--------------------	--

---

**Description**

This function sends a GET request to the student groups endpoint of the Semestry API and retrieves the student group data.

**Usage**

```
get_student_groups(semestry, timeout = 30)
```

**Arguments**

semester	An authenticated Semester object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved student group data from the API.

---

get\_student\_group\_maps

*Retrieve student group mappings from the Semester API*

---

**Description**

This function sends a GET request to the studentgroupmaps endpoint of the Semester API and retrieves the student group mappings data.

**Usage**

```
get_student_group_maps(semester, timeout = 30)
```

**Arguments**

semester	An authenticated Semester object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved student group maps from the API.

---

get\_supergroups

*Retrieve supergroup data from the Semester API*

---

**Description**

This function sends a GET request to the supergroups endpoint of the Semester API and retrieves the supergroup data.

**Usage**

```
get_supergroups(semester, timeout = 30)
```

**Arguments**

semester	An authenticated Semester object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved supergroup data from the API.

---

get_timeframes	<i>Retrieve timeframes data from the Semestry API</i>
----------------	---

---

**Description**

This function sends a GET request to the timeframes endpoint of the Semestry API and retrieves the timeframes data.

**Usage**

```
get_timeframes(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved timeframes data from the API.

---

get_timetable_module	<i>Retrieve timetable data for a specific module from the Semestry API</i>
----------------------	--

---

**Description**

This function sends a GET request to the timetable module endpoint of the Semestry API and retrieves the timetable data for a specific module.

**Usage**

```
get_timetable_module(semestry, module_code, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
module_code	The module code to retrieve timetable data for.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved timetable data for the specified module from the API.

---

`get_timetable_room`      *Retrieve timetable data for a specific room from the Semestry API*

---

**Description**

This function sends a GET request to the timetable room endpoint of the Semestry API and retrieves the timetable data for a specific room.

**Usage**

```
get_timetable_room(semestry, room_code, start = NULL, end = NULL, timeout = 30)
```

**Arguments**

<code>semestry</code>	An authenticated Semestry object.
<code>room_code</code>	The room code to retrieve timetable data for.
<code>start</code>	Optional start date in YYYY-MM-DD format (10 characters).
<code>end</code>	Optional end date in YYYY-MM-DD format (10 characters).
<code>timeout</code>	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved timetable data for the specified room from the API.

---

`get_timetable_staff`      *Retrieve timetable data for a specific staff member from the Semestry API*

---

**Description**

This function sends a GET request to the timetable staff endpoint of the Semestry API and retrieves the timetable data for a specific staff member.

**Usage**

```
get_timetable_staff(  
  semestry,  
  staff_code,  
  start = NULL,  
  end = NULL,  
  timeout = 30  
)
```

**Arguments**

semester	An authenticated Semester object.
staff_code	The staff code to retrieve timetable data for.
start	Optional start date in YYYY-MM-DD format (10 characters).
end	Optional end date in YYYY-MM-DD format (10 characters).
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved timetable data for the specified staff member from the API.

---

get\_timetable\_student *Retrieve timetable data for a specific student from the Semester API*

---

**Description**

This function sends a GET request to the timetable student endpoint of the Semester API and retrieves the timetable data for a specific student.

**Usage**

```
get_timetable_student(  
    semester,  
    student_code,  
    start = NULL,  
    end = NULL,  
    timeout = 30  
)
```

**Arguments**

semester	An authenticated Semester object.
student_code	The student code to retrieve timetable data for.
start	Optional start date in YYYY-MM-DD format (10 characters).
end	Optional end date in YYYY-MM-DD format (10 characters).
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved timetable data for the specified student from the API.

---

get_webhooks	<i>Retrieve webhook data from the Semestry API</i>
--------------	--

---

**Description**

This function sends a GET request to the webhooks endpoint of the Semestry API and retrieves the webhook data.

**Usage**

```
get_webhooks(semestry, timeout = 30)
```

**Arguments**

semestry	An authenticated Semestry object.
timeout	The timeout duration for the GET request (default: 30 seconds).

**Value**

The retrieved webhook data from the API.

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