

## Course Syllabus for Natural Products (SCBE256)

Credit: 3(2-3-5)  
Lecture Time: Monday 12:30-14.30 o'clock  
Lecturer: Pahol Kosiyachinda, Ph.D.  
Google class code: vbk3i3i  
Class link: <https://classroom.google.com/c/NDk3MDI0MjM3ODE3?cjc=vbk3i3i>

| Week | Date     | Topic                                             |
|------|----------|---------------------------------------------------|
| 1    | 8 Aug    | Orientation                                       |
| 2    | 15 Aug   | Commercial natural products from microorganisms   |
| 3    | 22 Aug   | Commercial natural products from plants           |
| 4    | 29 Aug   | Commercial natural products from animals          |
| 5    | 5 Sep    | Perception and uses of fragrances and flavors     |
| 6    | 12 Sep   | Raw materials for food and medicine               |
| 7    | 19 Sep   | Raw materials for textile and construction        |
| 8    | 26 Sep   | Extraction and formulation                        |
| 9    | 3-7 Oct  | Midterm Examination                               |
| 10   | 10 Oct   | Natural identical products                        |
| 11   | 17 Oct   | Products of medicinal purposes                    |
| 12   | 31 Oct   | Products of therapeutic purposes                  |
| 13   | 7 Nov    | Quality assessment and quality control            |
| 14   | 14 Nov   | Development and technology in natural products I  |
| 15   | 21 Nov   | Development and technology in natural products II |
| 16   | 28 Nov   | Research in natural products                      |
| 17   | 6-16 Dec | Final Examination                                 |

### Evaluation

| TQF | Evaluation Method                                    | Week                                      | Proportion |
|-----|------------------------------------------------------|-------------------------------------------|------------|
| 1   | - Participation/Activities<br>- Attendance/Attention | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 | 30 %       |
| 2   | - Laboratory                                         | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 | 30%        |
| 3   | - Midterm Examination                                | 1, 2, 3, 4, 5, 6, 7,                      | 20 %       |
| 4   | - Final Examination                                  | 9, 10, 11, 12, 13                         | 20 %       |

## Course Syllabus for Natural Products (SCBE256)

Credit: 3(2-3-5)  
 Laboratory Time: Monday 14:30-17:30 o'clock (SC3-300)  
 Lecturer: Dr. Pahol Kosiyachinda  
 Laboratory technician: Ms. Krissana Parkpoomkamol (when lab becomes accessible)  
 Google class code: vbk3i3i  
 Class link: <https://classroom.google.com/c/NDk3MDI0MjM3ODE3?cjc=vbk3i3i>

| Week | Date     | Topic                                                        |
|------|----------|--------------------------------------------------------------|
| 1    | 8 Aug    | Orientation                                                  |
| 2    | 15 Aug   | Investigation of natural products from microorganisms        |
| 3    | 22 Aug   | Investigation of natural products from plants                |
| 4    | 29 Aug   | Investigation of natural products from animals               |
| 5    | 5 Sep    | Biology of fragrances and flavors (sensory)                  |
| 6    | 12 Sep   | Categorization of raw materials for food and medicine        |
| 7    | 19 Sep   | Categorization of raw materials for textile and construction |
| 8    | 26 Sep   | Extraction and formulation                                   |
| 9    | 3-7 Oct  | Midterm Examination                                          |
| 10   | 10 Oct   | Commercial natural identical products                        |
| 11   | 17 Oct   | Example products of medicinal purposes                       |
| 12   | 31 Oct   | Example products of therapeutic purposes                     |
| 13   | 7 Nov    | Standard methods in quality assessment and quality control   |
| 14   | 14 Nov   | Development and technology in natural products I             |
| 15   | 21 Nov   | Development and technology in natural products II            |
| 16   | 28 Nov   | Research in natural products                                 |
| 17   | 6-16 Dec | Final Examination                                            |

### Grading:

|                  |      |       |       |       |       |       |       |        |
|------------------|------|-------|-------|-------|-------|-------|-------|--------|
| Total percentage | 0-49 | 50-54 | 55-59 | 60-64 | 65-69 | 70-74 | 75-79 | 80-100 |
| Grade            | F    | D     | D+    | C     | C+    | B     | B+    | A      |
| Grade            | U    | S     |       |       |       |       | O     |        |