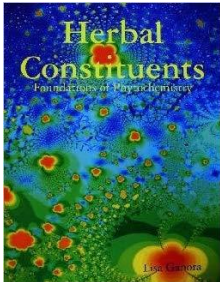
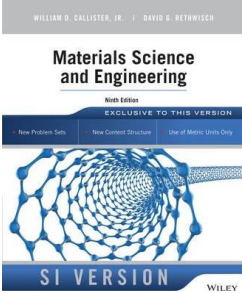


**List of Coursebooks - Bachelor's Degree Programme - 5th Semester
Faculty of Life Sciences & Technology, Department of Chemical Engineering, Concentration of
Pharmaceutical Engineering – 2021/2022**

| | Subject | Books | Price | Notes |
|---|---|--|----------------------------------|------------------------------|
| | Engineering Mathematics | Handout | | Adopted since April 2017 |
|  | Reactor Engineering [Elective Course] | Chemical Reaction Engineering, 3e Levenspiel John Wiley ISBN 9780471254249 | Continued from previous semester | Adopted since April 2016 |
| | Bioprocess Engineering [Elective Course] | | | |
|  | Process Equipment Design | Unit operations of chemical engineering, 7e McCabe McGraw-Hill ISBN 9780071247108 | Continued from previous semester | Adopted since April 2015 |
| | Separation Technology | | | Adopted since April 2016 |
| | Pharmaceutical Engineering Unit Operations Laboratory | | | Adopted since September 2007 |
|  | Herbal & Traditional industry [Elective Course] | Herbal constituents: foundations of phytochemistry Ganora Herbalchem ISBN 9780615273860 | Available on demand | Adopted since April 2016 |
|  | Material Science [Elective Course] | Material science and engineering SI, 9e Callister John Wiley ISBN 9781118319222 | Rp. 621.000 | Adopted since April 2016 |
| | English 4 | Handout | | |
| | Indonesian Language | Handout | | |

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|---|--------------------------------------|--|-----------------------------|--|
|  | <p>German Language and Culture 4</p> | <p>Berliner Platz 2 NEU : Deutsch im Alltag / Lehr- und Arbeitsbuch CD's Lemcke Langenscheidt ISBN 9783126060691</p> | <p>AOD</p> | <p>Adopted since February 2014</p> |
| <p>Total</p> | | | <p>Rp. 621.000,-</p> | |