

**Universiteit van Pretoria**  
**Departement Elektriese, Elektroniese**  
**en Rekenaar-Ingenieurswese**  
**Voorgeskrewe Boeke 1ste Sem 2015**

27/11/2014 Uitgawe/Edition 4

**University of Pretoria**  
**Department of Electrical, Electronic**  
**& Computer Engineering**  
**Prescribed Books 1st Sem 2015**

| Vak<br>Subject   | Kode<br>Code | Stud<br>Stud | Dosent<br>Lecturer | Titel van Boek<br>Title of Book         | Skrwyer<br>Author   | ISBN<br>ISBN   | Uitgewer<br>Publisher                 |
|--|--------------|--------------|--------------------|---|---|--|---------------------------------------|
| Elektrisiteit & Elektronika<br>Electricity & Electronics                         | RBM          | EBN 111      | 800                | Prof J Joubert &<br>A Chatterjee        | Fundamentals of Electric Circuits (2013)  | Alexander, Chales K.; Sadiku, Matthew N. O.                                    | 9781259071393 McGraw Hill             |
| Elektriese Ingenieurswese<br>Electrical Engineering                              | EZR          | EIR 211      | 350                | Prof WP du Plessis &<br>L Zhang         | Fundamentals of Electrical Engineering (2008)   | Rizzoni, Giorgio   | 9780071283380 McGraw Hill             |
| Professionele & Tegnieise Kommunikasie<br>Professional & Technical Communication | EZR          | EJJ 210      |                    | Prof JAG Malherbe &<br>Mev/Mrs M Ballot | Geen boek. / No book.   |  |                                       |
| Elektromagnetiese Versoenbaarheid<br>Electromagnetic Compatibility               | R            | EME 310      | 50                 | Dr JP Jacobs &<br>Prof JW Odendaal      | Fundamentals of Applied Electromagnetics (2014)   | Ulaby, Fawwaz T.; Michielssen, Eric;<br>Ravaoli, Umberto                       | 9780133356816 Pearson Education       |
| Intelligente stelsels<br>Intelligent Systems                                     | R            | EAI 320      | 50                 | Dr HC Myburgh                           | Artificial Intelligence: A Modern Approach (2013)   | Russell, Stuart; Norvig, Peter   | 9781292024202 Pearson Education       |
| Mikroverwerkers<br>Microprocessors   | EZR          | EMK 310      | 330                | Prof T Hanekom                          | PIC Microcontroller: Using Assembly and C for PIC18 (2007)                                      | Mazidi, Muhammad Ali; McKinlay, Rolin D.;<br>Causey, Danny                     | 9780136009023 Pearson Education       |
| Modulasiestelsels<br>Modulation Systems  | ZR           | EMS 310      | 60                 | Dr K Dhuness                            | Modern Digital and Analog Communications Systems International (2009)                           | Lathi; Ding, Zhi   | 9780195384932 Oxford University Press |
| Elektromagnetisme<br>Electromagnetism  | EZ           | EMZ 310      | 160                | Prof JW Odendaal &<br>Dr JP Jacobs      | Fundamentals of Applied Electromagnetics (2014)   | Ulaby, Fawwaz T.; Michielssen, Eric;<br>Ravaoli, Umberto                       | 9780133356816 Pearson Education (US)  |
| Analoog Elektronika<br>Analogue Electronics                                      | EZR          | ENE 310      | 200                | Mnr/Mr J Schoeman &<br>Dr T-H Joubert   | Design with Operational Amplifiers and Analog Integrated Circuits (2003)                        | Franco, Sergio   | 9780071207034 McGraw-Hill             |
| Elektriese Masjiene<br>Electrical Machines                                       | E            | ELX 311      | 80                 | Mnr/Mr W Badenhorst                     | Electric Machinery (2002)   | Fitzgerald, A.E.; Kingsley Jr., Charles;<br>Umans, Stephen D.                  | 9780071230100 McGraw Hill             |
| Outomatisasie<br>Automation  | EZ           | EBT 410      | 100                | Prof IK Craig                           | Process Dynamics and Control (2011)   | Seborg, Dale E.; Mellichamp, Duncan A.;<br>Edgar, Thomas F.; Doyle, Francis J. | 9780470646106 John Wiley & Sons       |
| DSV: Progr & Toepassing<br>DSP Progr & Application                               | ZR           | ESP 411      | 100                | Mnr/Mr JH van Wyk                       | Digital Signal Processing: A Practical Approach (2001)  | Ifeachor, Emmanuel C.; Jervis, Barrie W.                                       | 9780201596199 Pearson Education       |
| Rek-Ing: Arg. & Stelsels<br>Comp.Eng: Architecture & Systems                     | R            | EAS 410      | 40                 | Dr R Malekain                           | Advanced Computer Architecture (2010)   | Hwang, Kai; Jotwani, Naresh  | 9780070702103                         |
| e-Handel & Netwerksekuriteit<br>e-Business & Network Security                    | R            | EHN 410      | 60                 | Mnr/Mr DV Bhatt                         | Network Security Essentials: Applications and Standards: International ed of 5th revised (2013) | Stallings, William   | 9780273793366 Pearson Education       |
| Kragstelselanalise<br>Power Systems Analysis                                     | E            | EKK 410      | 70                 | Dr RM Naidoo &<br>Prof R Bansal         | Power System Analysis and Design (2011)   | Glover, J Duncan; Sarma, Professor of<br>Electrical and Computer Engineering   | 9781111425777 Cengage Learning, Inc   |
| Elektriese Aandrywing<br>Electrical Drives                                       | E            | EAD 410      | 50                 | Dr MAS Abdallah &<br>Prof MN Gitau      | Electric, Motor Drives: Modelling, Analysis, and Control (2001)                                 | Krishnan, R.   | 9780130910141 Pearson Education       |
| Gevorderde Elektronika<br>Advanced Electronics                                   | Z            | ENE 410      | 70                 | Dr T Stander                            | 1) Microelectronics Circuit Analysis and Design (2009)  | Neamen, Donald A.  | 9780071289474 McGraw-Hill             |
| Gevorderde Elektronika<br>Advanced Electronics                                   | Z            | ENE 410      | 70                 | Dr T Stander                            | 2) RF Circuit Design: Theory and Applications: International Version (2007)                     | Ludwig, Reinhold; Bogdanov, Gene   | 9780131355057 Pearson Education (US)  |

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| Z = Elektroniese Ingenieurswese / Electronic Engineering |
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|---|
| B = Bedryfsingenieurswese / Industrial Engineering    |
| M = Meganiese Ingenieurswese / Mechanical Engineering |