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| | **Topic / What to do** | **Ex-MAP2** | **MG\_EX\_MAP2** | **21-22\_A (Feb-12 ’22)** | **21-22\_B (Feb-07 ’22)** | **21-22\_C (slides)** | **23-24 (Jan-17 ’24)** | **Figure** | | --- | --- | --- | --- | --- | --- | --- | --- | | **1. Draw & size AC/DC filters** | Ex. 5 (a) | Ex. 5 (a) | I (a) | I (a) | – | II (a) | Converter.png | | **2. Estimate PCC short-circuit impedance & ΔVₚcc** | Ex. 5 (c) | Ex. 5 (c) | I (e) | I (b) | – | II (b) | Converter.png | | **3. Linear controllers: Vₙᵒᵐ DC-link & iₐᵇᶜ** | Ex. 5 (b) & 6 (b) | Ex. 5 (b) | I (b) | I (c) | – | II (d) | Controller4.png | | **4. Non-linear AC-current controller** | Ex. 6 (a) | – | – | – | – | – | Controller2.png | | **5. Storage for X days autonomy** | Ex. 7 (a–c) | – | I (c) | I (d) | – | II (c) | *(no figure)* | | **6. (A-only) Short-term high-power storage (1 s)** | – | – | I (d) | – | – | – | *(no figure)* | | **7. AC-voltage controllers (three-phase)** | – | – | – | I (e) | – | II (e) | Controller1.png | |