

### 3.1 Structure of the Choice-Based Curriculum

The following electives are offered in-house at the Centre. These can be offered during semester 2 or 3 provided their listed prerequisites are satisfied.

<b>Code (Section)</b>	<b>Course Name</b>	<b>Credits</b>
E001-1 (3.2)	Digital Signal and Image Processing 1	5
E001-2 (3.3)	Digital Signal and Image Processing 2	5
E002-1 (3.4)	Computational Fluid Dynamics 1	5
E002-2 (3.5)	Computational Fluid Dynamics 2	5
E003-1 (3.6)	Machine Learning 1	5
E003-2 (3.7)	Machine Learning 2	5
E004-1 (3.8)	Operations Research 1	5
E004-2 (3.9)	Operations Research 2	5
E005 (3.10)	Concurrent Computing	5
E006 (3.11)	High-Performance Computing	5
E007 (3.12)	Advanced Data Analysis	2
E008 (3.13)	Computing with Java	2
E009 (3.14)	Theory of Computation	5
E010 (3.15)	Functional Programming	2
E011 (3.16)	Computing with Python	2
E012 (3.17)	Statistical Models and Methods	1-5