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# Fluid Mechanics

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(offered by the School of Engineering)

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## Syllabus

### SECOND LEVEL

#### **FMC201U Fluid Mechanics II (Examination: 1 x 3 hour paper)**

*Prerequisite:* MCA141Z

*Co-requisite:* FMC2PRA, MCA1PRA

*Syllabus:* Fluid properties; pressure in fluids; hydrostatic forces; buoyancy; hydrostatic machines; fluid flow; flow in pipes; flow measurement.

### THIRD LEVEL

#### **FMA301A Fluid Mechanics III (Examination: 1 x 3 hour paper)**

*Prerequisite:* FMC201U, FMC2PRA

*Co-requisite:* FMA3PRA

*Syllabus:* Pipe friction; introduction to pumps; piping systems; canal flow; viscous flow; vortices; force exerted by a moving fluid.

### FOURTH LEVEL

#### **FMA401M Fluid Mechanics IV (Examination: 1 x 3 hour paper)**

*Prerequisite:* FMA301A, FMA3PRA

*Syllabus:* Pipe networks; dimensional analysis and dynamic similitude; boundary layer flow; flow over immersed bodies; compressible flow.