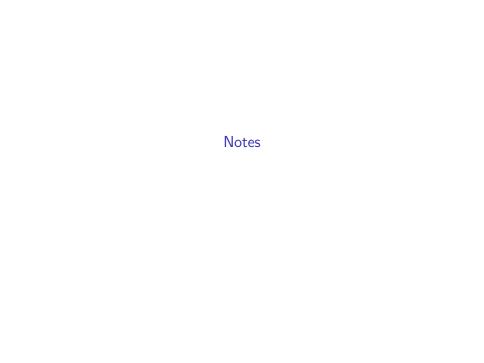
## Course Content

## Course Outline



## Notes

- Week 1: Basics of module theory: definition, sub/quotient modules, mapping properties (DF 10.1-10.2).
  - notespdf slides
  - recommended problems
- ➤ Week 2: More module theory: sums, products, free modules, decomposition (DF 10.3)
  - notespdf slides
  - recommended problems
- ► Week 3: Finitely generated modules over PIDs (DF 12.1)
  - notespdf slides
    - recommended problems
- ► Week 4: Canonical Forms (DF 12.2-12.3)
  - notes
    - pdf slidesrecommended problems
- ► Week 5: Field theory basics: algebraic/transcendental