UNIVERSIDADE FEDERAL DE SANTA CATARINA
CENTRO DE CIÊNCIAS FÍSICAS E MATEMÁTICAS
PÓS-GRADUAÇÃO EM MATEMÁTICA PURA E APLICADA

MTM410071 Finite Groups and their Representations

Pre-requisite: x-x

Weekly lesson hours: 06h

Discipline syllabus: Representations of finite groups. Definition and examples. Theory of characters. Induced representations and representation constraints. Indicator of Fröbenius-Schur.

 BIBLIOGRAPHIC REFERENCES

Text book:

1.   W. Fulton; J- Harris - Representation theory. A first course – Springer-Verlag, 1991.
2.   M. Mombelli – Grupos finitos y sus representaciones – http://www.famaf.unc.edu.ar/~mombelli/otros/notas-gruposfinitos.pdf.
3.   V. Serganova – Representation Theory, Lecture Notes, University of California, Berkeley, Fall, 2005.

COMPLEMENTARY BIBLIOGRAPHY

1.   M.A. Armstrong – Groups and Symmetry – Springer-Verlag 1980.
2.   C. W. Curtis; I. Reiner – Representation theory of finite groups and associative algebra, John Wiley & Sons, 1962.
3.   G. James; M. Liebeck – Representations and characters of groups, 2nd Edition Cambridge University Press, 2001.
4.   Joseph J. Rotman -- An Introduction to the Theory of Groups -- Springer-Verlag 1999.