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| brasao_UFSC_CFH_horizontal | **FEDERAL UNIVERSITY OF SANTA CATARINA****CENTER OF AGRICULTURAL SCIENCES****PLANT GENETIC RESOURCES GRADUATE PROGRAM****COURSE SYLLABUS** |  |
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| **I. COURSE DESCRIPTION:** |
| **CODE** | **COURSE NAME** | **COURSE HOURS PER WEEK****THEORETICAL PRACTICAL** | **TOTAL SEMESTER HOURS** |
| RGV 3019 | Introduction to Quantitative Genetics | 4 |  | 60 |
| **I.1. SCHEDULE** |
| **THEORETICAL SECTION** | **PRACTICAL SECTION** |
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| **II. PROFESSOR(S)** |
| Juliana Bernardi Ogliari  |
| **II. PREREQUISITE(S):** |
| **CODE** | **COURSE NAME** |
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| **IV COURSE(S) FOR WHICH THE DISCIPLINE IS OFFERED** |
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| **V. COURSE SYNOPSIS:** |
| Genetic basis of the quantitative characters. Applied Population Genetics to the CropImprovement Methods. Association between Relatives. Components of GeneticVariance. Heritability and Genetic Expected Selection Gain. Character Association andCorrelated Response. Specific and general combining ability. Genotype x EnvironmentInteraction. |
| **VI. OBJECTIVES** |
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| **VII. COURSE PROGRAM** |
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| **VIII. TEACHING METHOD / COURSE DEVELOPMENT** |
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| **IX. EVALUATION METHOD** |
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| **X. NEW EVALUATION** |
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| **XII. PRACTICAL SECTION CHRONOGRAM** |
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| **XIII. MAIN BIBLIOGRAPHY** |
| **a) Books and Book Chapters**Allard, R.W. Princípios do melhoramento genético das plantas. São Paulo: Ed. Blucher USA, 1960. p.135-147.Allard, Princípios do melhoramento genético de plantas. Ed. Edgard Blucher Ltda., 381p., 1971.Barbin, D. Componentes de Variância. Piracicaba: FESALQ, 1998, 108p.Blandon (1996). Tese de doutorado do departamento de genética de ESALQ.Briggs, F.N. & Knowles, P.F. Introduction to plant breeding. Reinhold Publishing Corporation, 1988, p.175-180.Cosme, D.C. & Regazzi, A.J. Modelos Biométricos Aplicados ao Melhoramento Genético. Viçosa: UFV, 1994, 390p.Crow & Kimura (1970). Introduction population genetics. (item 36). Crisóstomo, J.R. (1989). Tese de doutorado do departamento de genética da ESALQ.Falconer, D.S. Introdução à genética quantitativa. Viçosa, UFV. 279p., 1981.Falconer, D.S; Mackey, T.F.C. Introduction to quantitative genetics. 4. ed., Editora Longman. 1996, 464p.Fehr, W.R. Principles of cultivar development: Theory and Tecnique. Collier MacMillan Publisher., London, Vol.1, 1987. Gardner, E.R.; Snustad, D.P. Genética. Editora Guanabara, 1986, 497p (p. 403 – 408).Hallauer, A.R. & Miranda Filho, J.B. Quantitative Genetics in Maize Breeding. Iowa, ISUP, 1981, 468p.Hartl, D.L. Principles of population genetics. Sunderland Sinaver Associates, 1980.Kempthorne, O. An introduction to genetic statistics. 2. Impressão. Ames, Iowa State University Press, 1973.Kempthorne, O. An Introduction to Genetic Statistics. New York: John Wiley & Sons., 1957, 545 p. Kist, V.Kist, V.Li, C.C. Population Genetics. Chicago, The university of Chicago. 1955, 366p.Malècot, G. Les Mathématiques de l’hérédité. Paris: Masson, 1948, 80 p.Malècot, G. The mathematics of heredity. San Francisco, Freedman, 1969. (Tradução do idioma francês para o inglês de D.M. Yermanos).Mather, K. & Jinks, J.L. Introdução à genética biométrica. Ribeirão Preto, SBG, 242p., 1977.Paterniani, E. Melhoramento e Produção do milho no Brasil. Marprint, Fundação Cargill, Piracicaba, 650p., 1978. Poehlman, I.M. Breeding field crops. Avi. publishing company, 1987, 724p (p.81-85).Ramalho, M.A.; Santos dos, J.B.; Pinto, C.B. Genética na agropecuária. Editora Globo, São Paulo, 359, 1990.Ramalho, M.A.; Santos dos, J.B.; Zimmermann, M.J. Genética Quantitativa em Plantas Autógamas. Goiânia, UFG, 271p., 1993.Souza Jr., C.L. Componentes da Variância Genética e suas Implicações no Melhoramento Vegetal. Piracicaba, FEALQ/ESALQ, 1989, 134p.Vencovsky, R. & Barriga, P. Genética Biométrica no Fitomelhoramento. Ribeirão Preto, RBG, 1992, 496p.Weir, B.S. Genetic data analysis II. 2. Ed. Editora Sinauer associates, 1996, 445p. Folhetos/Periódicos Clássicos:Baker. L.H. & Curnow, R.N. Choice of population size and use of variation between replicate populations in plant breeding selection programs. Crop Sci., v.9, p.555-560, 1969.Cockerham, C.C. Implications of genetic variances in a hybrid breeding program. Crop Sci., v.1, p.47-52, 1961.Comstock, R.E.; Robinson, H.F. The components of genetic variance in populations of biparental progenies and their use in estimating the average degree of dominance. Biometrics, v.4, p.254-266, 1948. Kempthorne, O. The correlation between relatives in a random mating population. Proc. Roy. Soc., v.143, p.103-113, 1954.Kempthorne, O. The theoretical values of correlations between relatives in random mating populations. Genetics, v.40, p.153-167, 1955. Kist, VVencovsky, R. Effective size of manoecious populations submitted to artifitial selection. Revista Brasileira de Genética, v.1, p.181-191, 1978.Periódicos:Agronomy Journal; Crop Science; Ciência e Cultura; Genetics; Heredity; Journal of Genetics; Maydica; Revista Brasileira de Genética; Theor. Appl. Genet. |
| **XIII. COMPLEMENTARY BIBLIOGRAPHY** |
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