

SOFTWARE INSTALADO EN PCs DE AULAS INFORMÁTICAS A y B

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● **Introducción**

En el presente documento, se enumeran los programas instalados en las Aulas Informáticas de la FCEN, ubicados en el 1er. piso del Pabellón II, frente a la Biblioteca Central.

Para la utilización de dichas aulas, debe pertenecer a la comunidad de exactas.

Los equipos poseen la posibilidad de bootear (encender) con las versiones de Windows 7 o Windows XP, esta última se conserva solo para el normal funcionamiento de programas que solo lo hagan bajo dicho ambiente.

● **Aclaraciones Generales**

- Los Iconos de ejecución se ubican a partir de la carpeta Aula Informática, buscando por departamento/materia
 - A partir del 2018, las actualizaciones de software, se realizan solo bajo W7.
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● Listado de Software

Nombre del Software	Propósito	Dpto /Cátedra que usa el Software	WXP (sin más actualizac.)	W7
Adobe Photoshop CS6 Portable		Química General e Inorgánica	Sí	Sí
Applets de Física Versión en Español	Enseñanza de fenómenos y leyes de Física	CEFIEC	Sí	Sí
Algodoo			Sí	
Alleles in Space v 1.0		EGE Genética II	Sí	Sí
AMDIS v2.7.1 Jul 2012		EGE Genómica	Sí	Sí
AVOGRADO 1.2		Química General e Inorgánica	Sí	Sí
ANeCA v 1.2		EGE Genética II	Sí	Sí
Arlequín v 3.1 Multiplatform	Para estudios genéticos de ligamiento	Genética de Poblaciones y Genética II	Sí	Sí
Axovacs		Fisiología del Sistema Nervioso	Sí	No
Beast v 1.8.3 y 2.0	Soft p/análisis Bayesiano MCMC de sec. moleculares	EGE Genética II	Sí	Sí
Bilko 3.3 y ejemplos de imágenes para clases	Para princip y aplicaciones de los sensores remotos instalados en ≠ satélites	Atmósfera	Sí	Sí
Bioedit v 7.2.0	Editar secuencias nucleolíticas, anotación de genes y genera contigs Para análisis genómico	EGE / Genética y Sistemática Teórica	Sí	Sí
Biology Explorer		CEFIEC	Sí	No
BiomStat BioMedit 1.0	Métodos de Análisis Estadístico	Biodiversidad /Biometria	Sí	No
Biotas v 1.0.3.1		EGE	Sí	Sí
Britney				Sí
Canoco for Win v 4.5		EGE Genética II	Sí	Sí
Chemera V2.0		Química Inorg y Org	Sí	Sí
Chimera 1,2540 – win32		Química Biológica	Sí	Sí
Clic v 3.0 Y Ejemplos Clic	Ejemplos Clic, contiene ejemplos AgroPack	CEFIEC	Sí	No
Clustal W 2.1		Fisiol y BioMolecular Filogenias Moleculares y Sistemática Teórica	Sí	Sí

Colony 2.0.1.9 Requiere .Net Framework 2.0 o sup	Implementa un método para inferir parentesco a partir de datos dominantes	Genética II	Sí	Sí
COPASI 4.8	Simulador	Ingeniería Genética EGE	Sí	Sí
Cn3d-4.1 NCBI Chem3D 4.1		Química Biológica	Sí	Sí
CrisalisPro	Figura como XCalibur (Oxford Diffraction)	Cristalografía Química Inorgánica	Sí ?	No
Crocodile Chemistry	Simulador de procesos químicos	CEFIEC	Sí	Sí
Darwin Pond 2005		Informática Educativa	Sí	Sí
DCOM	Para interactuar con InfoStat	Biometría EGE Pedido para 1er cuat 2017	Sí	No
Densitree v 2.1.7		Genética II	Sí	Sí
Distance v 6.0		EGE Eco de Poblaciones	Sí	Sí
Diva –GIS 7.2.1.1		EGE Genética II	Sí	Sí
DNAMAN v 4.0		Ms.CsBiomédic Fund Leloir	Sí	No
Dnasp v 5.10	DNA sequence polymorphism	EGE Genética II	Sí	Sí
Easy Linkagev 5.02	Para estudios genéticos de ligamiento	EGE/Genética Molecular	Sí	Sí
ENMTools 1.4.3	Requiere Pearl y vinculado también al prog MAXENT	EGE Genética II	Sí	Sí
Erdas 2010	Visualizador y procesador de Imágenes (básico) (Imagine)	EGE y Atmósfera	Sí	Sí
Estimate S Win 8.2. 0	Software para Estadística	Ecología de Comunidades y Bio de la Conservación EGE	Sí	Sí
Exceed 8.0	Programa para comunicaciones	Atmósfera	Sí	No
FastQC v 0.11.7		Posgrado “Genética Humana”		Sí
FragStat 3.3		EGE Ecología Regional	Sí	
Fig Tree v 1.4.2		EGE Genética II	Sí	Sí
Gaussian03W		Modelado Molecular Química Orgánica	Sí	Sí
GaussianView		Modelado Molecular Química Orgánica	Sí	Sí
Geo Dis 2.5		EGE Genética II	Sí	Sí
Geode		Geología	Sí	Sí
Geogebra v4.0.41.0 Instalado con Java 1.7.0-09	Para trabajo en geometría y álgebra con abordaje experimental	CEFIEC	Sí	Sí

Gforce (Force 2.0.9)	Compilador y entorno de desarrollo para leng Fortran	Atmósfera	Sí	Sí
GlobalMapper v8.0		Geología	Sí	Sí
GraphPad Prims 6		Química General e Inorgánica		Sí
Graphviz 2.36		EGE	Sí	Sí
GreenFoot v 2.2.1 Requiere Java 1.7.0.09		CEFIEC	Sí	Sí
GoogleEarth Pro 7		EGE	Sí	Sí
IGV 2.4.11		Posgrado Genetica Humana		Sí
Image J v. 1.52a	Visualizador de Imágenes	EGE	Sí	Sí
Image Tool v 3.0	Visualizador/Procesador de Imágenes	Biodiversidad	Sí	No
InfoStat 2.0 v2018	Software para estadísticas	Biodiversidad /Biometría y Ecología de Comunidades	Sí	Sí
Interactive Box 5.5		Genética II - EGE	Sí	Sí
Interactive Physics 6.0	Simulador de Física newtoniana	CEFIEC	Sí	Sí
Interactive Physics 2005 V 8.0.1.0	Simulador de Física	CEFIEC	Sí	Sí
Iqtree-1.16.11			Sí	Sí
Java Development Kit v 7, update 9	Necesario para instalar Geogebra 4.0 y Greenfoot	CEFIEC	Sí	Sí
KOKORI v1.21.6		Informática Educativa	Sí	Sí
MAXENT v 3.4.1	Maximun Entropy Species Distribution Modelling	EGE Genética II	Sí	Sí
Mapmaker	Para hacer mapas genéticos a partir de datos de poblaciones segregantes	EGE / Genética	Sí	No
Mapman 3.6		FBMC Genómica Aplicada	Sí	Sí
MatLab 7.7.0.471(R2008b)	Paquete matemático de propósito general	Atmósfera EGE	Sí	Sí
MapSource v 6.16.3 2010		Ecología de Poblaciones EGE	Sí	Sí
Map Comparison Kit 3.2		EGE Ecología Regional	Sí	Sí
Matrices para prácticos		Biología/ Evolución	Sí	Sí
Mega 7		Sistemática Teórica EGE y Química Biológica	Sí	Sí
Mesquite v3.31		Sistemática de Plantas Vasculares	Sí	Sí

MineQL	Simula equilibrios químicos	Química Inorgánica y Química Orgánica	Sí	No
Mitosis y Meiosis	Para análisis genético	EGE / Genética	Sí	Sí
ML Relatedness		EGE – Genética II	Sí	Sí
Modellus v 2.5 Español		CEFIEC	Sí	No
Modellus v 4.01		CEFIEC	Sí	No
Molcoan v3.0		EGE	Sí	Sí
Morenaments				Sí
Mr Bayes v3.2.2		Fisiol y BioMolecular Filogenias Moleculares Sistemática Teórica	Sí	Sí
Ms. Lindquist		CEFIEC	Sí	Sí
NetCarto	Específico para curso de Postgrado	Redes d Interacciones Ecológicas (EGE)	Sí	Sí
NetLogo v6.0.2		Informática Educativa	Sí	Sí
NMRDATA	Datos a usar con el paquete WINNMR	Química Inorgánica y Química Orgánica	Sí	No
OriginPro v 7 SR2		Química	Sí	Sí
Opengrads v2.0.2		Seminario de Computación	Sí	Sí
Openmodeller				Sí
OpenModeller Desktop 1.1				Sí
Padis v 1.01		EGE	Sí	Sí
Pajek	Específico para curso de Postgrado	Redes d Interacciones Ecológicas (EGE)	Sí	Sí
Paup v 4.0b	Versión de Beta-Test	Varios	Sí	Sí
PC Ord for Win v 4-01		EGE	Sí	Sí
Peak Scanner v 1.0		EGE Genética II	Sí	No
Perl	Leng q soporta programación procedural y OO	EGE Genética II	Sí	Sí
Phylip v 3.66		Biología/ Evolución	Sí	Sí
PhysioEx 6.0	Experimentos de laboratorio en Fisiología	Int Fisiología Molecular FBMC	Sí	Sí
PopG Requiere Java		EGE Genética II	Sí	Sí
PopGen 32 1.31		EGE	Sí	Sí
Poptools v 2.6		EGE	Sí	No
Populus 5.3		EGE	Sí	Sí

Pov-ray v 3.0		Química Inorgánica y Química Orgánica	Sí	No
Poy v 5.1.1		Sistemática Teórica EGE	Sí	Sí
PPA v 1.0b	Point Pattern Analysis	Ecología de Poblaciones EGE	Sí	Sí
ProtLab v 3.10	Simula la purificación de proteínas	Química Biológica	Sí	Sí
QTLCartographer v 1.30	Para hacer mapas genéticos Calcula distancia entre genes medidos y dibuja uno o varios cromosomas con la posición relativa de los genes	Biología / Genética II	Sí	Sí
Quantum GIS v 3.4	Sistema de Inf. Geográfica	Ecología Regional	Sí	Sí
R 3.6	Para análisis de datos estadísticos (* Detalle de los módulos incluidos, en anexo al final **)	Eco de Comunidades EGE Análisis datos genéticos IC / Maestría	Sí	Sí
R Studio 1.2.1335	Incluye otros componentes de soft que ejecutan con R	Ecología de Comunidades Postgrados, EGE	Sí	Sí
RaxML		Sistemática Teórica	Sí	Sí
RASP W	Queda observación: Decimal Symbol is `.'`	Sistemática Teórica	Sí	Sí
Raswin v 2.6		Química Biológica	Sí	No
Robo Mind v 4.01	Leng de programación que introduce principios de est de control y de robótica	CEFIEC	Sí	Sí
Sam v 3.1	Incluye varios métodos estadísticos usados en macroecología	MacroEcología EGE	Sí	Sí
Scion Image Release 4.0.3.2	Visualizador de Imágenes	Eco de Comunidades EGE Biodiversidad	Sí	Sí
Scratch v2.0		Informática Educativa	Sí	Sí
Sensei Algebra	Tutorial de Algebra	CEFIEC	Sí	No
SimbiosSys Physiology (Critical Concepts) v 3	Libro de texto y ejercicios interactivos	Biodiversidad Int. Fisiología Molecular	Sí	Sí
SimCell		CEFIEC	No	Sí
Snap 6.0		EGE Ecología Regional	No	Sí
Spice v 1.14a		Química Inorg. y Orgánica	Sí	Sí
Statistica v 6.0	Paquete para análisis Estadístico	EGE y Biodiversidad	Sí	No
Statistix 7.0	Paquete para análisis Estadístico	IC Eco de Comunidades EGE	Sí	Sí
Structure 2.3.4 (nuevo)		EGE - Genética II	Sí	Sí
Surfer				Sí

TAG finder v 4.0		Genómica EGE	Sí	Sí
TCS 1.2.1 y 2.1		FBMC Genómica Aplicada	Sí	Sí
Textpad	Editor de Textos	EGE - Genética II	Sí	Sí
TNT v 1.5		Fisiol y BioMolecular Filogenias Moleculares y Sistemática Teórica	Sí	Sí
Tpsdiag 2.16		Sistemática Teórica	Sí	Sí
Tpsutil 1.52		Sistemática Teórica	Sí	Sí
Tpsrelw 1.49		Sistemática Teórica	Sí	Sí
TPs de Cefiec	Carpeta con ejercicios para prácticas	CEFIEC	Sí	Sí
Tracer v 1.5		Genética II y Sistemática Teórica EGE	Sí	Sí
Treemap v1.0a		Sistemática Teórica EGE	Sí	No
Treeview (W32) v 1.6.6	Visualizador de Imágenes	Evolución, Filogenias Moleculares y Sist Teórica	Sí	Sí
ULM	Unified Life Model	EGE	Sí	Sí
VLC Portable	Reproductor multimedia	Biodiversidad	Sí	Sí
Vensin Ple 5.9 e		CEFIEC	Sí	Sí
Visual Fortran v 6.0		Cs de la Atmósfera	Sí	No
VMD y Carpeta Proteins V 1.8.5		Química Inorgánica	Sí	No
Weigand (Programita)		Ecología Poblaciones EGE	Sí	Sí
WinMDI 2.9	Windows Multiple Document Interface for Flow Cytometry Application	Química Biológica	Sí	No
WINNMR WINNMR 1D y WINNMR 2D	Procesa espectros de RMN de 1D y de 2D	Química Inorgánica y Química Orgánica	Sí	No
X WinGrads 1.8	Confecciona mapas a partir de bases de datos voluminosas. Este software requiere de un programa de tipo Xserver, está instalado el Exceed 8.0	Cs de la Atmósfera	Sí	No

● ***Módulos de R***

Los siguientes módulos están instalados.

Packages in library 'C:/Program Files/R/R-3.5.0/library':

<i>Módulo</i>	<i>Descripción</i>
abind	Combine Multidimensional Arrays
acepack	ACE and AVAS for Selecting Multiple Regression Transformations
ade4	Analysis of Ecological Data: Exploratory and Euclidean Methods in Environmental Sciences
adegenet	Exploratory Analysis of Genetic and Genomic Data
adehabitat	Analysis of Habitat Selection by Animals
ADGofTest	Anderson-Darling GoF test
agricolae	Statistical Procedures for Agricultural Research
akima	Interpolation of Irregularly and Regularly Spaced Data
AlgDesign	Algorithmic Experimental Design
ape	Analyses of Phylogenetics and Evolution
apex	Phylogenetic Methods for Multiple Gene Data
arm	Data Analysis Using Regression and Multilevel/Hierarchical Models
assertthat	Easy Pre and Post Assertions
automap	Automatic interpolation package
backports	Reimplementations of Functions Introduced Since R-3.0.0
base	The R Base Package
base64enc	Tools for base64 encoding
bayesplot	Plotting for Bayesian Models
BH	Boost C++ Header Files
bibtex	Bibtex Parser
bindr	Parametrized Active Bindings

bindrepp	An 'Rcpp' Interface to Active Bindings
Biobase	Base functions for Bioconductor
BiocGenerics	S4 generic functions for Bioconductor
blme	Bayesian Linear Mixed-Effects Models
blmeco	Data Files and Functions Accompanying the Book "Bayesian Data Analysis in Ecology using R, BUGS and Stan"
BiodiversityR	Package for Community Ecology and Suitability Analysis
bitops	Bitwise Operations
boot	Bootstrap Functions (Originally by Angelo Canty for S)
blme	Bayesian Linear Mixed-Effects Models
blmeco	Data Files and Functions Accompanying the Book "Bayesian Data Analysis in Ecology using R, BUGS and Stan"
boot	Bootstrap Functions (Originally by Angelo Canty for S)
broom	Convert Statistical Analysis Objects into Tidy Data Frames
car	Companion to Applied Regression
carData	Companion to Applied Regression Data Sets
caTools	Tools: moving window statistics, GIF, Base64, ROC AUC, etc.
cellranger	Translate Spreadsheet Cell Ranges to Rows and Columns
checkmate	Fast and Versatile Argument Checks
chron	Chronological Objects which can Handle Dates and Times
class	Functions for Classification
classInt	Choose Univariate Class Intervals
clhs	Conditioned Latin Hypercube Sampling
cli	Helpers for Developing Command Line Interfaces
cluster	"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.
Coda	Output Analysis and Diagnostics for MCMC
codetools	Code Analysis Tools for R

coefplot	Plots Coefficients from Fitted Models
coin	Conditional Inference Procedures in a Permutation Test Framework
colorspace	Color Space Manipulation
combinat	combinatorics utilities
compiler	The R Compiler Package
contrast	A Collection of Contrast Methods
copula	Multivariate Dependence with Copulas
corrplot	Visualization of a Correlation Matrix
crayon	Colored Terminal Output
crosstalk	Inter-Widget Interactivity for HTML Widgets
curl	A Modern and Flexible Web Client for R
d3heatmap	Interactive Heat Maps Using 'htmlwidgets' and 'D3.js'
data.table	Extension of `data.frame`
datasets	The R Datasets Package
DBI	R Database Interface
deldir	Delaunay Triangulation and Dirichlet (Voronoi) Tessellation
dendextend	Extending 'dendrogram' Functionality in R
DeoptimR	Differential Evolution Optimization in Pure R
DescTools	Tools for Descriptive Statistics
devtools	Tools to Make Developing R Packages Easier
dichromat	Color Schemes for Dichromats
digest	Create Compact Hash Digests of R Objects
diptest	Hartigan's Dip Test Statistic for Unimodality - Corrected
dismo	Species Distribution Modeling
doBy	Groupwise Statistics, LSmeans, Linear Contrasts, Utilities
doParallel	Foreach Parallel Adaptor for the 'parallel' Package

dotCall64	Enhanced Foreign Function Interface Supporting Long Vectors
dplyr	A Grammar of Data Manipulation
DT	A Wrapper of the JavaScript Library 'DataTables'
dygraphs	Interface to 'Dygraphs' Interactive Time Series Charting Library
e1071	Misc Functions of the Department of Statistics, Probability Theory Group (Formerly: E1071), TU Wien
EcoGenetics	Management and Exploratory Analysis of Spatial Data in Landscape Genetics
edgebundleR	Circle Plot with Bundled Edges
effects	Effect Displays for Linear, Generalized Linear, and Other Models
ellipse	Functions for Drawing Ellipses and Ellipse-Like Confidence Regions
emmeans	Estimated Marginal Means, aka Least-Squares Means
estimability	Tools for Assessing Estimability of Linear Predictions
evaluate	Parsing and Evaluation Tools that Provide More Details than the Default
expm	Matrix Exponential, Log, 'etc'
FactoMineR	Multivariate Exploratory Data Analysis and Data Mining
faraway	Functions and Datasets for Books by Julian Faraway
fastmatch	Fast match() function
fBasics	Rmetrics - Markets and Basic Statistics
FD	Measuring functional diversity (FD) from multiple traits, and other tools for functional ecology
fields	Tools for Spatial Data
flashClust	Implementation of optimal hierarchical clustering
flexmix	Flexible Mixture Modeling
forcats	Tools for Working with Categorical Variables (Factors)
foreach	Provides Foreach Looping Construct for R
foreign	Read Data Stored by 'Minitab', 'S', 'SAS', 'SPSS', 'Stata', 'Systat', 'Weka', 'dBase', ... Formula Extended Model Formulas

fpc	Flexible Procedures for Clustering
gam	Generalized Additive Models
gamm4	Generalized Additive Mixed Models using 'mgcv' and 'lme4'
gclus	Clustering Graphics
gdata	Various R Programming Tools for Data Manipulation
geepack	Generalized Estimating Equation Package
genetics	Population Genetics
geometry	Mesh Generation and Surface Tessellation
geoR	Analysis of Geostatistical Data
Ggally	Extension to 'ggplot2'
ggplot2	Create Elegant Data Visualisations Using the Grammar of Graphics
ggribes	Ridgeline Plots in 'ggplot2'
git2r	Provides Access to Git Repositories
glmmTMB	Generalized Linear Mixed Models using Template Model Builder
glmnet	Lasso and Elastic-Net Regularized Generalized Linear Models
glue	Interpreted String Literals
gmodels	Various R Programming Tools for Model Fitting
gofstest	Classical Goodness-of-Fit Tests for Univariate Distributions
gplots	Various R Programming Tools for Plotting Data
graphics	The R Graphics Package
grDevices	The R Graphics Devices and Support for Colours and Fonts
grid	The Grid Graphics Package
gridBase	Integration of base and grid graphics
gridExtra	Miscellaneous Functions for "Grid" Graphics
gsl	Wrapper for the Gnu Scientific Library
gss	General Smoothing Splines

gstat	Spatial and Spatio-Temporal Geostatistical Modelling, Prediction and Simulation
gtable	Arrange 'Grobs' in Tables
gtools	Various R Programming Tools
haven	Import and Export 'SPSS', 'Stata' and 'SAS' Files
hexbin	Hexagonal Binning Routines
hierfstat	Estimation and Tests of Hierarchical F-Statistics
highr	Syntax Highlighting for R Source Code
Hmisc	Harrell Miscellaneous
hms	Pretty Time of Day
htmlTable	Advanced Tables for Markdown/HTML
htmltools	Tools for HTML
htmlwidgets	HTML Widgets for R
httpuv	HTTP and WebSocket Server Library
httr	Tools for Working with URLs and HTTP
HWtest	Exact Tests for Hardy-Weinberg Proportions
igraph	Network Analysis and Visualization
installr	Using R to Install Stuff (Such As: R, 'Rtools', 'RStudio', 'Git', and More!)
irlba	Fast Truncated Singular Value Decomposition and Principal Components Analysis for Large Dense and Sparse Matrices
iterators	Provides Iterator Construct for R
jsonlite	A Robust, High Performance JSON Parser and Generator for R
kernlab	Kernel-Based Machine Learning Lab
KernSmooth	Functions for Kernel Smoothing Supporting Wand & Jones (1995)
klaR	Classification and Visualization
knitr	A General-Purpose Package for Dynamic Report Generation in R
labdsv	Ordination and Multivariate Analysis for Ecology

labeling	Axis Labeling
labelled	Manipulating Labelled Data
later	Utilities for Delaying Function Execution
lattice	Trellis Graphics for R
latticeExtra	Extra Graphical Utilities Based on Lattice
lazyeval	Lazy (Non-Standard) Evaluation
LEA	LEA: an R package for Landscape and Ecological Association Studies
leaps	Regression Subset Selection
LearnBayes	Functions for Learning Bayesian Inference
lm.beta	Add Standardized Regression Coefficients to lm-Objects
limma	Linear Models for Microarray Data
lm.beta	Add Standardized Regression
lme4	Linear Mixed-Effects Models using 'Eigen' and S4
lmerTest	Tests in Linear Mixed Effects Models
lmtest	Testing Linear Regression Models
lsmeans	Least-Squares Means
lubridate	Make Dealing with Dates a Little Easier
magic	Create and Investigate Magic Squares
magick	Advanced Graphics and Image-Processing in R
magrittr	A Forward-Pipe Operator for R
manipulate	Interactive Plots for RStudio
manipulateWidget	Add Even More Interactivity to Interactive Charts
mapdata	Extra Map Databases
mapproj	Map Projections
maps	Draw Geographical Maps

maptools	Tools for Reading and Handling Spatial Objects
markdown	'Markdown' Rendering for R
MASS	Support Functions and Datasets for Venables and Ripley's MASS
Matrix	Sparse and Dense Matrix Classes and Methods
MatrixModels	Modelling with Sparse And Dense Matrices
mclust	Gaussian Mixture Modelling for Model-Based Clustering, Classification, and Density Estimation
memoise	Memoisation of Functions
merTools	Tools for Analyzing Mixed Effect Regression Models
methods	Formal Methods and Classes
mgcv	Mixed GAM Computation Vehicle with Automatic Smoothness Estimation
mime	Map Filenames to MIME Types
miniUI	Shiny UI Widgets for Small Screens
minqa	Derivative-free optimization algorithms by quadratic approximation
misc3d	Miscellaneous 3D Plots
mnormt	The Multivariate Normal and t Distributions
modelr	Modelling Functions that Work with the Pipe
modeltools	Tools and Classes for Statistical Models
multcomp	Simultaneous Inference in General Parametric Models
multcompView	Visualizations of Paired Comparisons
multtest	Resampling-based multiple hypothesis testing
MuMIn	Multi-Model Inference
munsell	Utilities for Using Munsell Colours
mvtnorm	Multivariate Normal and t Distributions
ncdf4	Interface to Unidata netCDF (Version 4 or Earlier) Format Data Files
networkD3	D3 JavaScript Network Graphs from R
nlme	Linear and Nonlinear Mixed Effects Models

nloptr	R interface to NLOpt
NMF	Algorithms and Framework for Nonnegative Matrix Factorization (NMF)
nnet	Feed-Forward Neural Networks and Multinomial Log-Linear Models
npls	The Lawson-Hanson algorithm for non-negative least squares (NNLS)
nortest	Tests for Normality
numDeriv	Accurate Numerical Derivatives
openair	Tools for the Analysis of Air Pollution Data
openssl	Toolkit for Encryption, Signatures and Certificates Based on OpenSSL
openxlsx	Read, Write and Edit XLSX Files
ordinal	Regression Models for Ordinal Data
parallel	Support for Parallel computation in R
party	A Laboratory for Recursive Partytioning
pastecs	Package for Analysis of Space-Time Ecological Series
pbapply	Adding Progress Bar to '*apply' Functions
pbkrtest	Parametric Bootstrap and Kenward Roger Based Methods for Mixed Model Comparison
pcaPP	Robust PCA by Projection Pursuit
pegas	Population and Evolutionary Genetics Analysis System
permute	Functions for Generating Restricted Permutations of Data
phangorn	Phylogenetic Reconstruction and Analysis
pheatmap	Pretty Heatmaps
picante	Integrating Phylogenies and Ecology
pillar	Coloured Formatting for Columns
pkgconfig	Private Configuration for 'R' Packages
pkgmaker	Development Utilities for R Packages
plogr	The 'plog' C++ Logging Library
plot3D	Plotting Multi-Dimensional Data

plotKML	Visualization of Spatial and Spatio-Temporal Objects in Google Earth
plotly	Create Interactive Web Graphics via 'plotly.js'
plyr	Tools for Splitting, Applying and Combining Data
png	Read and write PNG images
polspline	Polynomial Spline Routines
polyclip	Polygon Clipping
polysat	Tools for Polyploid Microsatellite Analysis
poppr	Genetic Analysis of Populations with Mixed Reproduction
prabclus	Functions for Clustering of Presence-Absence, Abundance and Multilocus Genetic Data
prediction	Tidy, Type-Safe 'prediction()' Methods
PresenceAbsence	Presence-Absence Model Evaluation
prettyunits	Pretty, Human Readable Formatting of Quantities
processx	Execute and Control System Processes
progress	Terminal Progress Bars
promises	Abstractions for Promise-Based Asynchronous Programming
proto	Prototype Object-Based Programming
pscl	Political Science Computational Laboratory
pspline	Penalized Smoothing Splines
psych	Procedures for Psychological, Psychometric, and Personality Research
purrr	Functional Programming Tools
pwr	Basic Functions for Power Analysis
QICpack	Model Selection for generalized estimating equations using QIC
quadprog	Functions to solve Quadratic Programming Problems.
Quantreg	Quantile Regression
questionr	Functions to Make Surveys Processing Easier
R.methodsS3	S3 Methods Simplified

R.oo	R Object-Oriented Programming with or without References
R.utils	Various Programming Utilities
R2admb	'ADMB' to R Interface Functions
R2WinBUGS	Running 'WinBUGS' and 'OpenBUGS' from 'R' / 'S-PLUS'
R6	Classes with Reference Semantics
raster	Geographic Data Analysis and Modeling
Rcmdr	R Commander
RcmdrMisc	R Commander Miscellaneous Functions
RcolorBrewer	ColorBrewer Palettes
Rcpp	Seamless R and C++ Integration
RcppEigen	'Rcpp' Integration for the 'Eigen' Templated Linear Algebra Library
readr	Read Rectangular Text Data
readstata13	Import 'Stata' Data Files
readxl	Read Excel Files
registry	Infrastructure for R Package Registries
relimp	Relative Contribution of Effects in a Regression Model
rematch	Match Regular Expressions with a Nicer 'API'
reshape	Flexibly Reshape Data
reshape2	Flexibly Reshape Data: A Reboot of the Reshape Package
ResourceSelection	Resource Selection (Probability) Functions for Use-Availability Data
rgdal	Bindings for the 'Geospatial' Data Abstraction Library
rgl	3D Visualization Using OpenGL
Rgraphics	Data and Functions from the Book R Graphics, Second Edition
rio	A Swiss-Army Knife for Data I/O
rjson	JSON for R

RJSONIO	Serialize R objects to JSON, JavaScript Object Notation
rkt	Mann-Kendall Test, Seasonal and Regional Kendall Tests
rlang	Functions for Base Types and Core R and 'Tidyverse' Features
rms	Regression Modeling Strategies
RnetCDF	Interface to NetCDF Datasets
rngtools	Utility Functions for Working with Random Number Generators
robustbase	Basic Robust Statistics
rpart	Recursive Partitioning and Regression Trees
rscproxy	statconn: provides portable C-style interface to R (StatConnector)
rstudioapi	Safely Access the RStudio API
sandwich	Robust Covariance Matrix Estimators
scales	Scale Functions for Visualization
scatterplot3d	3D Scatter Plot
segmented	Regression Models with Break-Points / Change-Points Estimation
seqinr	Biological Sequences Retrieval and Analysis
shapefiles	Read and Write ESRI Shapefiles
shiny	Web Application Framework for R
shinyFiles	A Server-Side File System Viewer for Shiny
sjlabelled	Labelled Data Utility Functions
sjmisc	Data and Variable Transformation Functions
sjPlot	Data Visualization for Statistics in Social Science
sjstats	Collection of Convenient Functions for Common Statistical Computations
snakecase	Convert Strings into any Case
SoDA	Functions and Examples for "Software for Data Analysis"
sourcetools	Tools for Reading, Tokenizing and Parsing R Code
sp	Classes and Methods for Spatial Data

spam	SPArse Matrix
SparseM	Sparse Linear Algebra
spatial	Functions for Kriging and Point Pattern Analysis
SpatialPack	Package for analysis of spatial data
spatstat	Spatial Point Pattern Analysis, Model-Fitting, Simulation, Tests
spatstat.data	Datasets for 'spatstat'
spatstat.utils	Utility Functions for 'spatstat'
spData	Datasets for Spatial Analysis
spdep	Spatial Dependence: Weighting Schemes, Statistics and Models
splines	Regression Spline Functions and Classes
stabledist	Stable Distribution Functions
stats	The R Stats Package
stats4	Statistical Functions using S4 Classes
strataG	Summaries and Population Structure Analyses of Genetic Data
stringdist	Approximate String Matching and String Distance Functions
stringi	Character String Processing Facilities
stringr	Simple, Consistent Wrappers for Common String Operations
strucchange	Testing, Monitoring, and Dating Structural Changes
survey	Analysis of Complex Survey Samples
survival	Survival Analysis
swfscMisc	Miscellaneous Functions for Southwest Fisheries Science Center
tcltk	Tcl/Tk Interface
tcltk2	Tcl/Tk Additions
tensor	Tensor product of arrays
testthat	Unit Testing for R
TH.data	TH's Data Archive

tibble	Simple Data Frames
tidyr	Easily Tidy Data with 'spread()' and 'gather()' Functions
tidyselect	Select from a Set of Strings
timeDate	Rmetrics - Chronological and Calendar Objects
timeSeries	Rmetrics - Financial Time Series Objects
tkrplot	TK Rplot
TMB	Template Model Builder: A General Random Effect Tool Inspired by 'ADMB'
tools	Tools for Package Development
translations	The R Translations Package
trimcluster	Cluster analysis with trimming
ucminf	General-Purpose Unconstrained Non-Linear Optimization
useful	A Collection of Handy, Useful Functions
utf8	Unicode Text Processing
utils	The R Utils Package
vcd	Visualizing Categorical Data
vegan	Community Ecology Package
viridis	Default Color Maps from 'matplotlib'
viridisLite	Default Color Maps from 'matplotlib' (Lite Version)
webshot	Take Screenshots of Web Pages
whisker	{{mustache}} for R, logicless templating
withr	Run Code 'With' Temporarily Modified Global State
xtable	Export Tables to LaTeX or HTML
xts	eXtensible Time Series
yaml	Methods to Convert R Data to YAML and Back
zip	Cross-Platform 'zip' Compression
zoo	S3 Infrastructure for Regular and Irregular Time Series (Z's Ordered Observations)

- **Listado de Software Libre Portable**

Software Libre/Portable (accesos directos en carpeta homónima ubicada en Aula Informática) instalados en WXP y W7

<i>Nombre del Software</i>	<i>Propósito</i>
Free Math Portable	Paquete matemático
Gimp	Programa GNU manipulador de imágenes
I0-FirefoxPortable	Navegador
I2-GoogleChromePortable	Navegador
I3-OperaPortable	Navegador
I4-SeaMonkeyPortable	Navegador
UO-JKDefragPortable	Defragmentador
OO-OpenOfficePortable	Paquete Office libre
OM-OpenOfficeMathPortable	Paquete matemático
OO-LibreOfficePortable	Paquete Office libre
NotePad++Portable	Editor multipropósito
VCLPortable	Reproductor multimedia
V7-7ZipPortable	Zipeador