

SCIENTIFIC PROGRAM and CULTURAL ACTIVITIES

SCHEDULE	
MORNINGS.	
Waking up.	07:30 h
Breakfast	08:00 h. a 08:30 h.
On our way to the Faculty	08:30 h. a 08:45 h.
Getting together	08:45 h. a 08:55 h.
To begin Problems (Problemas para abrir boca...)	9:00 h. a 9:50 h.
Maths Session	10:00 h. a 11:30 h.
Break	11:30 h. a 12:00 h.
Conference.	
On our way to the dorm	12:00 h. a 13:00 h.
Swimming pool.	13:00 h. a 13:15 h.
Lunch	13:15 h. a 14:00 h.
AFTERNOONS.	
Break	14:00 h. a 15:00 h.
Miscellaneous activities	15:00 h. a 16:00 h.
Sport competitions.	16:00 h. a 17:30 h.
Swimming pool. Free time. Living together	17:30 h. a 20:00 h.
Dinner	20:00 h. a 21:00 h.
Chat, Living together. Camp games.	21:00 h. a 21:30 h.
Prepare to sleep.	21:30 h. a 22:30 h.
Silence	22:30 h. a 23:00 h.

Getting together: activities for each day will be detailed, and unforeseen issues will be handled (if any). This will be done on a daily basis at the “Sala de Estudios” (study room)

To begin Problems (Problemas para abrir boca)

Coordinating professors: Antonio Rojas, José Ma. Tornero, Rafael Espínola.

Assistents: Olmo Chiara, Javier Perera

Place: “Sala de Estudios” (study room)

[Every ordinary day except July 26, because of the Mathematical visit to the Mosque of Cordoba].

This session will be based on mathematics problems solving, following the Mathematical Olympiad style.

Students will be organized in 5-7 members groups and will be given math problems to solve.

On July 30th, this session will change its name to **To end Problems**. Problems pending from previous sessions will be discussed and solved.

Math activities for some afternoons

Wednesday 20th, from 17 to 18:30

Magic Math

Study room

Professor: Ramón Piedra

Friday 22th, from 16: 30 to 18:15

Math game room (Math pastime in the press)

Study room,

Teachers: Alquerque group

Monday 25th, from 17 to 18:30

Papered Math

Study room

Teacher: Dunia Lozano Méndez

Wednesday 27th, from 17 to 18:30

Mathematical women

Salón de Actos

Professors: Juan Núñez, Alfonso Carriazo

Thursday 28th from 17 to 18:30

Workshop: *The Hexaflectagons*

Study room

Teacher: Alberto Herrero

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Día 15 <u>Friday</u>	Arrival. Students reception. Logistic groups formation. Swimming pool. Living together.
Día 16 <u>Saturday</u>	9h. Level exam (Teacher Lola Ariza) 10:30 h. Outing to Parque María Luisa. Math activities at the park (Professors: Ricardo Ríos, Raúl Falcón) 13:30 Picnic at the park. Walk at the park. 18:30h: Return to the dorm 19:30: Pair game (Alberto Herrero) Living together and activities in the dorm
Día 17 <u>Sunday</u>	8:30h: Walking across the bank of the river. Picnic at Alamillo park 11:30: Return to the dorm 12:30 Swimming pool. 18h. Sport activities. Living together. Films and other activities.
Día 18 <u>Monday</u>	Grupos 2 y 3 GRAPH THEORY
	Lecture (10h – 11h) Big Hall Session (11:30-13h) : <i>Some applications of Graph Theory to Games</i> Computer room Professors: Clara Grima, Alberto Márquez.
	Grupo 1 <i>Math battle (10 a 13h).</i> Study room Professors: Anna Dubova, Lola Ariza.
Día 19 <u>Tuesday</u>	Grupos 1, 2 y 3 ARTIFICIAL INTELIGENCE. ARTIFICIAL LIFE
	Lecture (10h – 11h) Big Hall Session (11:30-13h): <i>Communication with a robot.</i> Computer room Professors: Mario de J. Pérez, Agustín Riscos, Jaime Mendizábal, David Martínez
Día 20 <u>Wednesday</u>	Schedule: from 10 to 13 (all groups) Group 1 <i>Algorithms and Mathematics with Scratch</i> Computer room Professors: José F. Quesada Moreno, José F. Quesada Marañón. Grupo 2 <i>Math battle.</i> Study room Professors: Anna Dubova, Lola Ariza. Group 3: <i>NetLogo</i> Computer room Professor: Fernando Sancho
Día 21 <u>Thursday</u>	Group 1: <i>Ruledsurfaces building workshop</i> Professor: Alberto Herrero Study room Group 2: <i>Session led by Ana Martín and Miguel L. Rodríguez</i> Group 3 <i>Math battle (10 to 13h).</i> Study room Professors: Anna Dubova y Lola Ariza

	<p>Lecture (Groups 1 and 2): <i>Modelling for Optimization in a nutshell</i> Big Hall. Professor: Justo Puerto</p>
Día 22 <u>Friday</u>	<p>All groups together MATH GAMES ROOM From 10 to 13 and from 16:30 to 18:15 This afternoon will be “pastime in the press” Study room Teachers: José Muñoz, Juan A. Hans y Antonio Fernández-Aliseda (Alquerque group)</p>
Día 23 <u>Saturday</u>	<p>CATHEDRAL OF SEVILLE VISIT Arrival to Gold Tower. Visit to the Cathedral (11:30; 90 personas; Entrance: Alligator door) Picnic at Murillo’s gardens. Return to the dorm. Swimming pool. Afternoon: Activities in the dorm</p>
Día 24 <u>Sunday</u>	<p>GYMKANA Barrio de Santa Cruz Picnic at Murillo’s gardens. Afternoon: Visit to REAL ALCÁZAR (17 h.). Entrance Halt door, in the Flags Patio. Return to the dorm at 19:30 h. Free time. Living together.</p>
Día 25 <u>Monday</u>	<p>Group 1: <i>Logos with Geogebra</i> Computer room Teachers: Eva Acosta, Miguel Fco. Pino Mejías Group 2: <i>Using Geogebra to work with parameters, paths and accelerated movements.</i> Computer room Professor: Miguel de la Fuente Group 3: <i>Straightedge and compass constructions: Squaring a circle and other solved problems</i> Computer room Professors: Miguel A. Olalla y Jesús Soto</p> <hr/> <p>Lecture: <i>Something about Newton and his friends and enemies at the Royal Society</i> Big Hall Professor: Antonio L. Rodríguez López-Cañizares</p>
Día 26 <u>Tuesday</u>	<p>All groups together MATH VISIT TO THE CATHEDRAL (MOSQUE) OF CORDOBA Departure: 7:45 TWO Groups. First Group: Visit from 10 to 11:30. Walk, from 11:30 to 13 Second Group: Walk from 10 to 11:30. Visit, from 11:30 to 13 13:15: Picnic Return: at 17h. ----- Activities in the dorm.</p>
Día 27 <u>Wednesday.</u>	<p>Group 1: <i>Perspective, Geometry and Cinderella.</i> Computer room Teachers: Belén Guemes and Félix Gudiel Group 2: <i>Why all maps are wrong</i> Teachers: Alfonso Carriazo and Juan Núñez Group 3: <i>Mathematical modeling in population dynamics</i> Computer room Professors: José A. Langa, Antonio Suárez</p> <hr/> <p>Lecture: Professor: Eugenio Fedriani</p>

<p>Día 28 <u>Thursday</u></p>	<p>Group 1: <i>Playing with knots</i> Study room. Professor: Juan González Meneses Group 2: <i>Modeling 3D</i> Computer room Professors: Raúl Falcón, Ricardo Ríos Group 3: <i>Mathematics as the language of the Universe</i> Computer room Professor: Renato Álvarez Nodarse</p> <hr/> <p>Lecture: (Physic) <i>Universal Constants</i> Professor: Alberto Pérez Izquierdo</p>
<p>Día 29 <u>Friday</u></p>	<p>Lecture (10 to 11h.): <i>Determinism, chance and chaos</i> Professor: José Luis Vicente CLOSING CEREOONY (11:30h.) Big Hall</p>
<p>Día 30 <u>Saturday</u></p>	<p>Farewell Free time until the departure. Games, Films, etc.</p>