**Course Information Sheet **

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| Course title: Professional updating course in Cultural Astronomy for high school teachers |
| Contact email:vitofrancesco.polcaro@iaps.inaf.it | Web page: http://archeo.ara.roma.it/ |
| Country and Venue: Italy – Civita di Bagnoregio (Viterbo) | Fee: none |
| Start date: November 9, 2017 | End date: November 11, 2017 | Day(s)/time(s): 3 |
| Number of sessions: 6 | Hours per session: 4 (+2 h of final discussion) | Level: MA or MS |
| Title of qualification to be gained (if any): No specific title; 4 Ministry “credits” for carreer progression |
| Awarding body (if any): Italian Ministry for Education, University and Reseatch (MIUR)) |
| Essential materials: A purposely produced booklet + DVD with the lessons |
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| **Course aims** (Max. 20 words)**:** Make high school teachers able to introduce cultural astronomy topics in their STEM or human sciences lessons |
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| **Course description** (Max. 30 words)**:**Full time, residential course**,** fully supported by the local Municipality, recognized by MIUR16h of front lesson;4h of archeoastronomical field activity;2h for discussing the results of practical exercises. |
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| **Any prior knowledge or entry requirements?** MA or MS (5 years) + school teaching expertise |
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| **Course content: what topics will the course cover?** (Max. 100 words)Positional astronomyHistory of Western Astronomy from the beginning to Rennaicence;Modern astronomy from Galileo to present epoch;History of Chinese astronomy from the beginning to the 17th centuryArchaeoastronomy as a subsidiary science of archeologyMethods for the study of cultural heritage with astronomical value Retrieval of astrophysical data from ancient documentsEthnoastronomy |
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| **Teaching, learning and assessment methods:** *tick those to be used ✓* |
| Distance Learning |  | Discussion | X | Group work | X | Individual work | X |
| Project work |  | Research |  | Role play |  | Written work |  |
| Question and answer | X | Activity outside class time | X | Observation | X | Practical work | X |
| Presentation | X | Field trip | X | Other (state) |
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| **How will I receive feedback on my learning progress and achievement?** (Max. 30 words)From the final discussion and evaluation of execises |
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| **Learning outcomes. By the end of the course, students should be able to:** |
| * Teach the basis of cultural astronomy to high schools students
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| **Reading and information sources** (Max. four references)**:****Schaefer B. E., 2006,:** *Case Study of Three of the Most Famous Claimed Archaeoastronomical Alignements in North America* in,*Viewing the Sky Through Past and Present Cultures, Oxford VII International Conferences on Archaeoastronomy* (Bostwick, T.W. & Bates, B. eds) Phoenix (AZ) (Pueblo Grande Museum Anthropological Papers **15**), 71-77.**Incerti M., Bònoli F., Polcaro V.F**.; 2010, *Transient astronomical events as inspiration sources of Medieval and Renaissance art.i*, in “Astronomy and Power – How Worlds are structured”, International Conference on Archaeoastronomy and Ethnoastronomy, Société Européenne pour l’Astronomie dans la Culture, SEAC 2010, Gilching (Germany), Aug.30-Sep.4 2010**Polcaro V. F. Polcaro A.**, 2009, *Man and Sky: Problems and Methods of Archaeoastronomy*,Archeologia e Calcolatori, 20, 223-245**Vitagliano, A.**, *SOLEX 11.0 User Manual and Technical Notes*, http://chemistry.unina.it/~alvitagl/solex/, 2010 |
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| **Suggestions for progression to further study or for using the skills and knowledge gained:**Seminars (for students and teachers) will be held in the high schools where the participants teach. |
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| **Please indicate recent past or anticipated number of enrolments on this course:** 20 (close number course) |