

“182 International NASE-IAU Astronomy Course”

Quezon City, Philippines, July 2020

Questionnaire

Discipline:

Biology	Nat. Sciences	Chemistry	Physics	Maths	Other
34%	22%	18%	14%	2%	10%



Level:

Under 12	13-18	Over 18
6%	86%	8%



Is this school your first contact with astronomy?

Yes	No
28%	72%



If no, what is your background in astronomy?

Self-taught	Amateurs	University	Courses
20%	10%	36%	34%



What was the cause for participating in this course?

Professionals	Personal
86%	14%



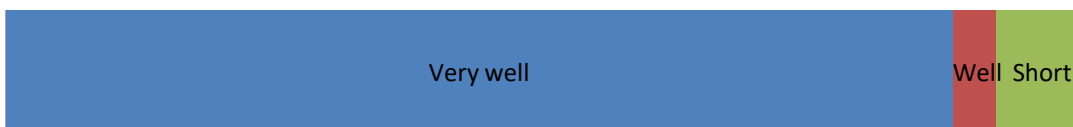
What do you think of the choice of dates?

Very well
100%



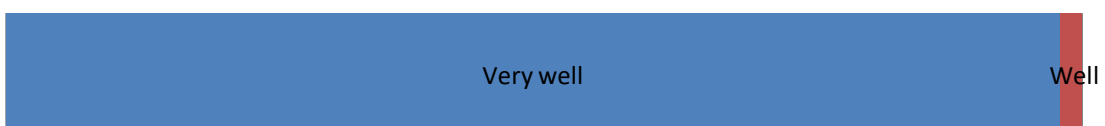
What about duration?

Very well	Well	Short
88%	4%	8%



What do you think of the organization of the day (and night) in four different types of activities: conferences, working groups, workshops, observations?

Very well	Well
98%	2%



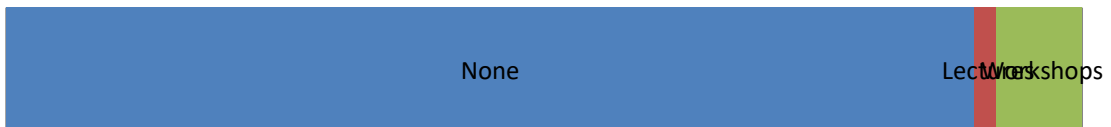
What kind of activities have preferred?

Workshops	All	Lectures
28%	70%	2%



What kind of activities you like least?

None	Lectures	Workshops
90%	2%	8%



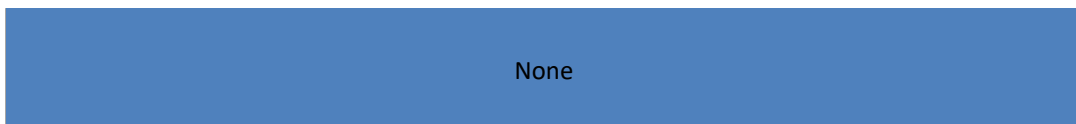
The subjects, have met your expectations?

Very well
100%



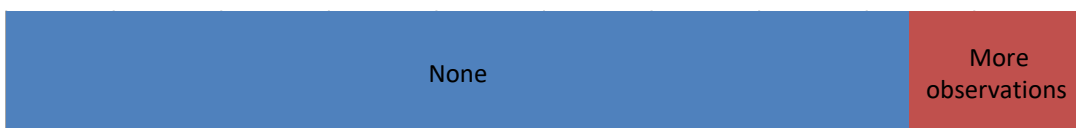
What would you delete?

None
100%



What would you add?

None	More observations
84%	16%



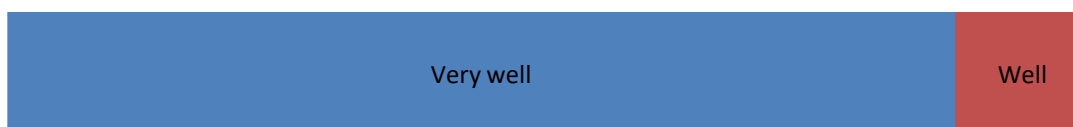
The level of activities has been:

Satisfactory	Too high
84%	16%



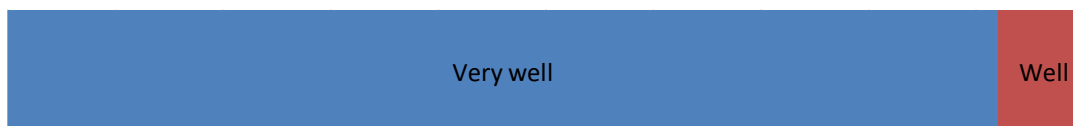
What is your opinion about the teaching methods of teachers?

Very well	Well
88%	12%



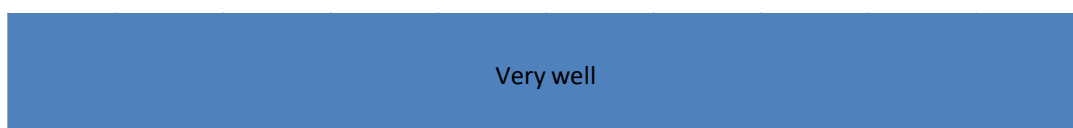
What is your opinion about NASE web?

Very well	Well
92%	8%



What is your opinion about coordination between different activities?

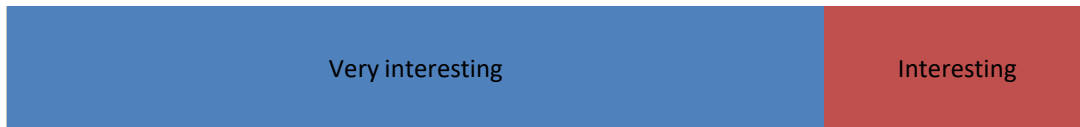
Very well
100%



What is your overall opinion of the course related to:

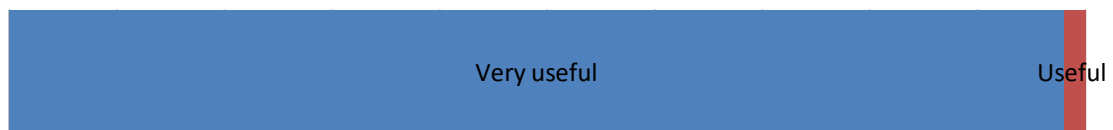
a) Exchanges and contacts with other participants?

Very interesting	Interesting
76%	24%



b) What is your opinion about the usefulness of the course to their teaching?

Very useful	Useful
98%	2%



What especially criticize?

- None
- none
- NONE
- None. I really appreciate all the effort everyone has put to make the workshop possible. Muchas gracias.
- I will value all the activities that we had from this workshop, it is fun and easy to provide even the students are at home especially in this situation, thank you so much for this superb hands on activities
- Can the videos show the procedures of the activities step by step and slowly?
- not very much
- None. Everything was done well.
- I have no right to criticize since every part of the sessions are helpful to my profession.
- It would have been more exciting if this is done actual/ face to face.
- none to criticize. i love the activities and the materials.
- none
- Maybe the internet connection
- none so far
- The activities that can be use in the classroom
- All activities are useful
- None so far. I learned from all the sessions.
- Teaching astronomy in an interesting way
- No need for this. All is perfect;y well!
- learning by doing different hands on activities
- Over all the sessions was great even there are some minor technical issues like audio, internet connections and computer problems. The resource speakers are

approachable and they are very reliable in the field of astronomy. The PSHS-MC YMSAT 2020 Organizing Committee was very accommodating to entertain us.

- None, I am very grateful to be part of this workshop.
- The problem regarding the internet connection of the lecturers.
- I have nothing to criticize since they tried their best to localize their examples.
- Some of the activities were presented quite fast and it was hard to follow at first, but all in all it was good. :)
- None
- Different activities in Astronomy
- The materials will be very useful to the students and they can understand the concepts being taught by the teachers.
- So far, the activities are very interesting and engaging. The resource speakers are really experts on their field and I want to be like them soon.
- NONE. Everything is perfect and with the right pacing and level of difficulty
- None. The webinar is commendable
- time
- Maybe the internet connection because we encounter some difficulties.

What you would value more?

- I love all the hands-on and minds-on activities. The workshop has taught us that learning astronomy is possible even without telescopes. I learned a lot.
- All are valuable and useful. Thank you NASE
- I will value all the activities that we had from this workshop, it is fun and easy to provide even the students are at home especially in this situation, thank you so much for this superb hands on activities
- I value the is making the heavenly bodies very real to the students, and not things that are very far to them. The activities make the invisible to be visible.
- hands on activities
- None. The videos and demonstrations were well-constructed.
- The easy to perform activities are highly appreciated.
- The practicality of the activities.
- the materials and the activities are great, though doing it personally/face to face would have been really great but we know that it is not possible as of the moment.
- The workshop is very useful in teaching astronomy. The materials are easy to use and the students will enjoy learning astronomy through hands-on activity.
- everything especially your passion in teaching us with all your might. the activities are really engaging. you showed that we do not need high technology materials to study and enjoy astronomy.
- Everything like activities and new knowledge
- the new learning from this webinar.
- workshop/ hands-on
- The engaging session
- the concepts and ideas taught

- The experiential learning that I can teach to my students. Materials are readily available for my students. Misconceptions were corrected. Gracias, Mam and Sir!
- the workshop is very helpful to us teachers
- All of the sessions are valuable, helpful, upgrading and inspiring as a teacher. I'm very happy to join the workshops. The simple and very accessible manipulatives are great resources for teaching.
- Learning by doing in all the activities is very much appreciated.
- the application of the materials used for astronomy
- All activities are visible to students
- I value the Do-It-Yourself (DIY) Kits and Models. I will be using these to my science classes soon. I just realized that there is no need for me to procure expensive astronomy apparatuses for the students to learn more. With the models and kits you shared, students will love astronomy more and will be engaged since they will perform the activities on their own. Muchas gracias!
- The ideas and concepts taught about astronomy
- the workshops and the materials given
- The astronomy kits! I love them!
- doing practical hands on activities (learning through experience)
- All the knowledge and especially the activities I can introduce it to my class.
- THE INSIGHTS I GAINED
- The activities and models/materials that I have learned I am so excited to share it with my students. Astronomy is my first love and it triggers my passion do pursue my dream of studying MA in AstroPhysics. I really enjoy Prof Rosa, Dr. Josep, and Dr. Paula. If given another opportunity I will be glad to undergo another session with them and who knows to be one of them.
- The hands on activities. I really like the models used in the webinar.
- I really enjoy the solar/stellar demonstrator. I can really use that in one of the module in Grade 7 Science.
- the models/tools..
- Very experiential and resourceful; Cheap materials and easy to produce :) I could already imagine myself doing the actual observations and using the materials (when the weather and time (night time for the constellations!)permit).
- The activities presented. The participants were able to experience hands-on activities.
- The insights and all the informations gained in this webinar
- The content of each session and they share different activities that can be use by teachers and students.
- The informations shared by the 3 speakers and the resourcefulness of the materials od the workshop.
- The content and the pedagogy I gained and I will surely share this to my co-teachers and integrate this to my class.
- The Hands on activities.
- I value and appreciate more the accuracy and mastery of the content shared by our dear speakers which clarify and correct my misconceptions in astronomy and also develop my critical thinking skills in regards to this discipline. I also love and was inspired by the creativity and passion of the NASE teachers in creating

improvised yet effective and innovative astronomical instruments which are really relevant in teaching the astronomy course well. Thumbs up!

- THE ACTIVITIES
- The creating of models and kits which make unreachable astronomical quantities possible.
- The learnings and the exciting activities
- The various learning activities, workshops and lectures
- The improvise devices to be use in astronomy
- The concepts, ideas and improvised materials in teaching astronomy
- hand-on activities using inexpensive materials
- more workshops like this one
- New learning and the activities that i can use in the future

Other observations

Doing astronomy workshop even in an online platform is possible!

- You are all excellent!
 - Some of the mathematics are too complicated. The mathematical calculations can be made more simple. For example, the work of Eratosthenes.
 - 2. The Professors are very good. They are well prepared and very personal in teaching even if it is a virtual seminar.
- Activities were easy to do and materials were accessible through the website. Thank you!
- Very interesting webinar workshop I have attended
- This is very helpful!
- the activities and materials are really good. you are very creative and very resourceful. we hope to be able to do the same.
- the team teaching of the speakers is highly appreciated. thank you very much!
- the lecture-demonstratiin of the bried case ,very interesting
- speaker s are very appreciative
- They gave more importance on students activity to undertand more on topics to be discussed.
- The activity is easy to do by students
- everything was great most specially the workshops/materials
- Very interactive activities and lively presentations!
- none
- The workshop is so fun and interesting
- I hope that the materials for the workshop is properly labeled and with clear instruction.
- The videos shown for each activity were really helpful and the demonstrations of the speakers on how to use them provided a lot of insight. As a math teacher, I was also happy to find a lot of connections with the lessons I teach in Math with Astronomy. :) Thank you so much!
- The logistics were able to guide the speakers and participants throughout the session

- They are very professional in their expertise. I love their smiles when we perform different activities.
- The speakers are knowledgeable about the topics and put their very best just to teach us teaching astronomy in most interesting way.
- There are some times the videos are buffering because of the poor internet connection but nonetheless, the workshop is a success.
- None. They were very accommodating..
- The speakers are really passionate and motivating. They showed us not only the best techniques in teaching astronomy but also the heart and love for the craft they are doing. Dr. Rosa, you really inspire me to teach astronomy with heart and I hope to learn more from you in the future! Warm regards! Stay safe and God bless you always! Sending our love and virtual hugs from the Philippines!!
Muchas Gracias! :)
- The speakers are very warm to the participants and full of knowledge to share their expertise.
- The webinar is very organized in terms of materials, time and speakers.. Cudos..
- yes, it would help teachers to engage their students in delivering their lesson