

Minutes of the 6th 'MuEuCAP - Online learning as part of the BioCEP curriculum'

Three Zoom meetings – '*Contents of an Online Tutorial*'

WP3.1 Practical testing of individual courses

WP3.2 Evaluation of skills and competences by student and staff

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Workshop 1 (Part 1) - Chaired by Dr Lutz Fehrmann: Thursday 26 November 2020, 9.30 am
(European time); 3.00 PM (15.00 hours, Myanmar time) (Fig. 1)

Attendance:

Dr Lutz Fehrmann, University of Göttingen, Germany

Prof. Dr Soe Soe Aung, University of Mandalay

Dr Kyu Kyu Mar, University of Mandalay

Dr Aung Aung Aye, Myeik University

Dr Paul Bates, Project Manager, University of Natural Resources and Natural Sciences, Austria

Workshop 2 (Part 1) - Chaired by Dr Marcela Suarez-Rubio: Thursday 26 November 2020, 10.30 am
(European time); 4.00 PM (16.00 hours, Myanmar time) (Fig. 2)

Attendance:

Dr Marcela Suarez-Rubio, Project Coordinator, University of Natural Resources and Natural Sciences, Austria

Dr Nay Myo Hlaing, University of Mandalay

Ma Ne Nan Nandar New, Myeik University

Dr Zin Lin Khine, Myeik University

Dr Tin Tin Kyu, Myeik University

Daw Wah Wah Soe, Myeik University

Ma Hlaing Sabai Phway, Myeik University

Ma Shwe Sin May, Myeik University

Ma Sandar Lin, Myeik University

Dr Khin Swe Oo, Myeik University

Daw Su Myat Aung, Myeik University

Ma Zin Mar Lwin, Myeik University

Ma Yeon Nadi Thway Oo, Myeik University

Dr Aye Khet Soe, University of Mandalay

Dr Naw Zarchi Linn, Mawlamyine University

Dr Khaing Myat Htwe, Mawlamyine University

Dr Than Than Soe, Mawlamyine University

Prof Dr Aye Aye Myint, Myeik University

Dr Aye Aye Naing, Myeik University

Daw Thi Mar Win, Myeik University

U Kyaw Yadanar Min, Myeik University

Ma Zin Mar Win, Myeik University

Dr Paul Bates, Project Manager, University of Natural Resources and Natural Sciences, Austria
Workshop 3 (Part 1) - Chaired by Dr Alfonso Marzal Reynolds: Friday 27 November 2020, 10.00 am (European time); 3.30 PM (15.30 hours, Myanmar time) (Fig. 3)
Dr Alfonso Marzal-Reynolds, University of Extremadura, Spain
Dr Aung Myo Hsan, Mawlamyine University
Dr Sein Moh Moh Khaing, Mawlamyine University
Dr Jar San, Mawlamyine University
Dr Sabae Oo, University of Mandalay
Dr Khin Moh Moh Tun, University of Mandalay
Dr Htet Htet Lin, Mawlamyine University
Dr Paul Bates, Project Manager, University of Natural Resources and Natural Sciences, Austria

Item 1: Three workshops: Three online training workshops took place on 26/27 November (for dates/times and attendance, see above). They were Part 1 of a four week workshop, which will take place once a week for one-to-two hours per week (Part 1: 26/27 November; Part 2: 3/4 December; Part 3: 10/11 December; Part 4: 17 December).

Each workshop is chaired by Dr Marcela, Dr Lutz and Dr Alfonso respectively. The aim for all three workshops is the intensive training of Myanmar university staff, supported by Myanmar students, to prepare online tutorials that will be part of the proposed MuEuCAP BioCEP curriculum (WP3 – Practical testing of the curriculum and WP4 – Realisation of the curriculum). These online tutorials relate to 4 courses in the syllabus, namely:

- BioCEP-611 – Ecology, biodiversity and conservation biology
- BioCEP-614 – Methods in BioCEP (field/practical)
- BioCEP-621 – Statistics and environmental modelling
- BioCEP-622 – Scientific writing

The staff and students are drawn from Mandalay, Myeik and Mawlamyine Universities. They are listed, together with their Topic titles in Appendix 1.

Item 2: Outline of 12 presentations at the three workshops

The lead Myanmar staff member for each of the 12 topics made a short presentation to her/his colleagues at their respective workshops. Open discussions followed, which involved the EUP staff member and the Myanmar staff. The objective of the workshops was to develop best practice in deciding the 'content' of an online tutorial. Particular attention was paid to:

- the focus of the tutorial – one tutorial to one topic - avoiding too much information, too many ideas and complex messages
- the opportunity to split content into separate chapters, which if necessary, can be prepared as separate online tutorials 'Introduction/Justification', 'Methods', 'Fieldwork techniques', and 'Results'
- timelines for the tutorial – keeping between 10 to 15 minutes maximum duration to avoid student 'attention fatigue'
- the importance of always being attentive to the syllabus – keep 'on message' about learning outcomes
- use of examples, especially examples relating to Myanmar, to support theoretical ideas

- strong ending to the tutorial, including summary/ 'take-home message', information about further reading and follow-up student activities that can reinforce learning about the topic
- the importance of saving tutorial computer files with a suitable title, such as: [lecture1_PrelimConcepts_Distrib_Khin Swe Oo.pptx](#)

Item 3: Conclusion and Action points:

All three workshops will meet again on 3/4 December to finalise the content of the 12 online tutorials before working in more detail on the structure and presentation skills.

The EU mentors in discussion with Myanmar staff decided on the following dates for their Part 2 workshops, namely:

Workshop 1 (Part 2): Dr Lutz for Methods in BioCEP (field/practical)

- Thursday 3 December at 9.30 EU time/ 3.00 pm Myanmar time – Week 2: Content

Workshop 2 (Part 2): Dr Marcela for 'Statistical methods' and 'Scientific writing'

- Thursday 3 December at 10.30 EU time/ 4.00 pm Myanmar time – Week 2: Content

Workshop 3 (Part 2): Dr Alfonso for 'Ecology, biodiversity, and conservation biology'

- Friday 4 December at 10.00 EU time/ 3.30 pm Myanmar time – Week 2: Content

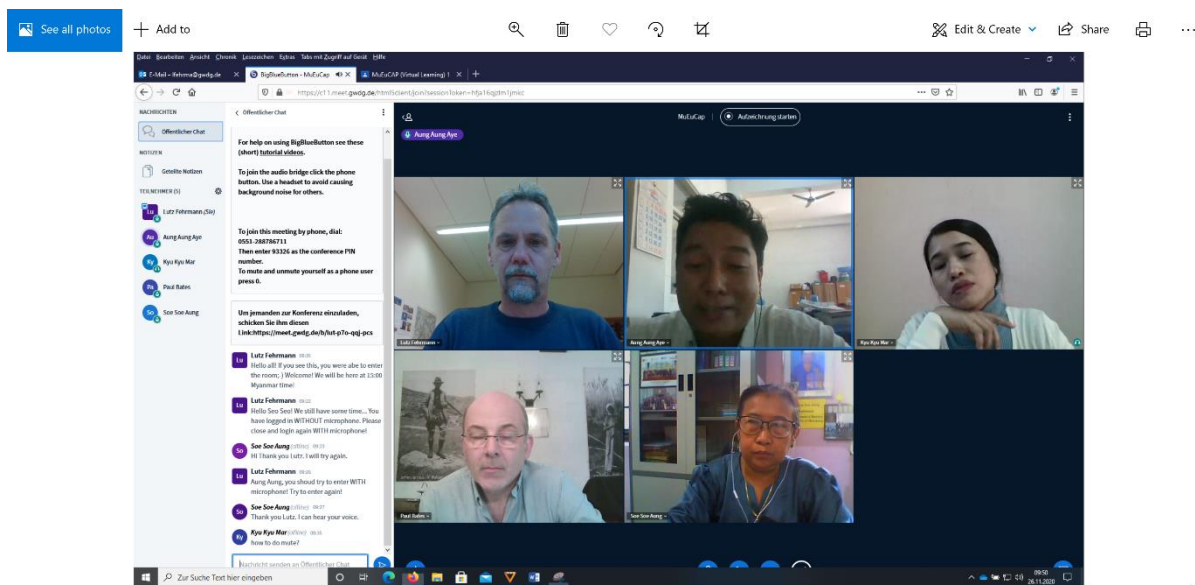


Figure 1. Workshop 1 (Part 1): Participants in 'Methods in Biodiversity Conservation and Environmental Protection' – for details see Page 1.

The image shows a Zoom meeting window with a grid of 25 video thumbnails on the left and a 'Participants (25)' list on the right. The thumbnails are arranged in a 5x5 grid. The participants list includes names and initials such as Paul BATES (Me), Marcela Suarez-Rubio (Host), Saw Yu Nandi, Aye Khet Soe (MU), Aye Myint, Daw Thi Mar Win (Myeik University), Dr. Daw Aye Naing(Botany, Myeik), Dr. Zin Lin Khine, Dr.Khin Swe Oo (KhinKhin Gyi), Dr.Khin Swe Oo (KhinKhin Gyi), Hlaing Sabai Phway, Khaing Myat Myat Htwe, Naw Zar Chi Linn (MLM), Nay Myo Hlaing, Ne Nan, Sandar lin, Shew Zin May, Su Myat Aung, Than Than Soe mawlamyine university, Tin Tin Kyu, U Kyaw Yadanar Min (Myeik University), wah wah soe, yeon nadi, Zin Mar Lwin, and zinmar tintun. At the bottom of the Zoom window, there is a search bar and a list of controls including 'Raise Hand', 'yes', 'no', 'go slower', 'go faster', 'more', 'Invite', and 'Unmute Me'.

Figure 2. Workshop 2 (Part 1): Participants in ‘Statistics and environmental modelling’ and ‘Scientific Writing’ – for details see Page 1

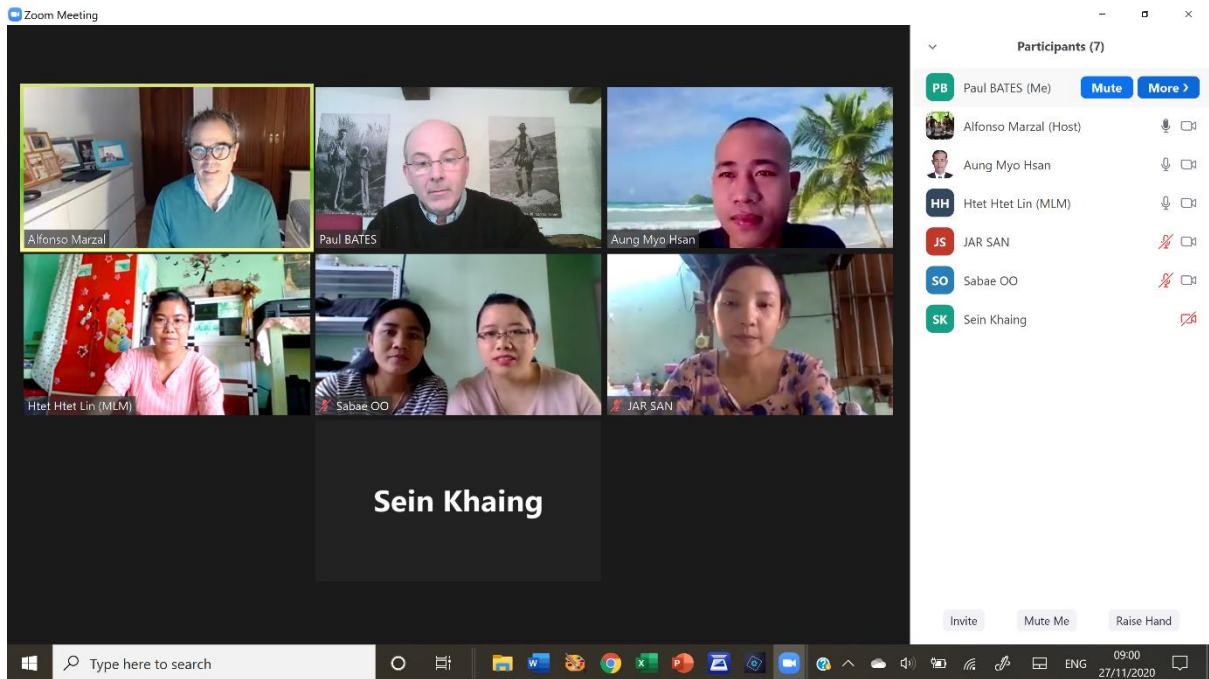


Figure 3. Workshop 3 (Part 1): Participants in 'Ecology, biodiversity, and conservation biology' – for details see Page 2

Appendix 1

Topics assigned by Dr Marcela in 'Statistical and environmental modelling':

1: Topic title: *First statistical test (one sample z-test/t-test)*

Lead: **Dr Nay Myo Hlaing**, Lecturer, Department of Zoology, University of Mandalay, nmhlaing01@gmail.com

Staff: Daw Saw Yu Nandi, Tutor, Department of Geography, Myeik University, sawyunandi.geog@gmail.com

Student 1: Daw Yu Kay Zin Htun, Part-Time Demonstrator, Department of Zoology, Myingyan University, yukayzinhtun21@gmail.com

Student 2: Ma Ne Nan Nandar Nwe, Intern Student, Marine Science Department, Myeik University, nenannandarnwe@gmail.com

2: Topic title: *Framing statistical hypothesis (steps statistical test, p-value)*

Lead: **Dr Zin Lin Khine**, Lecturer, Marine Science Department, Myeik University, mainmain2015@gmail.com

Staff 1: Dr Tin Tin Kyu, Lecturer, Marine Science Department, Myeik University, tintinke.edu.mm@gmail.com

Staff 2: Daw Wah Wah Soe, Lecturer, Geography Department, Myeik University, wahwahsoe2020@gmail.com

Student 1: Daw Thin Lett Lett Wai, 2nd year MSc and Part-time Demonstrator, Marine Science Department, Myeik University, thinlaelaewai1997@gmail.com

Student 2: Ma Hlaing Sabai Phway, 1st year MSc, Marine Science Department, Myeik University, hlaingsabaiphway1997@gmail.com

Student 3: Ma Shwe Sin May, 1st year MSc, Marine Science Department, Myeik University, shwesinm73@gmail.com

Student 4: Ma Sandar Lin, 1st year MSc, Marine Science Department, Myeik University, sandarlynn.997@gmail.com

3: Topic Title: *Preliminary concepts (population, sample) & frequency distribution (normal, Poisson, binomial).*

Lead: **Dr Khin Swe Oo**, Department of Zoology, Myeik University, khinsweoo71@gmail.com

Staff 1: U Soe Naing, Lecturer, Department of Zoology, Myeik University, soen60816@gmail.com

Staff 2: Daw Su Myat Aung, Assistant Lecturer, Department of Geology, Myeik University, sumyataung2192@gmail.com

Student 1: Mg Aung Min Thu, MSc (Second Year)/Part-time Demonstrator, Department of Geology, Myeik University, aungminthu3596@gmail.com

Student 2: Ma Zin Mar Lwin, Second Year (Honours), Department of Zoology, Myeik University, zinmarlwin6297@gmail.com

Student 3: Ma Yeon Nadi Thway Oo, Second Year (Hounours), Department of Zoology, Myeik University, yeonnadi@gmail.com

Topics assigned by Marcela in 'Scientific writing':

1: Topic Title: *How to write an abstract section*

Lead: **Dr Aye Khet Soe**, Lecturer, Department of Zoology, University of Mandalay, ayekhetmdy89@gmail.com

Staff 1: Dr. San San Aye, Lecturer, Department of Zoology, University of Mandalay, sansanaye.mdy88@gmail.com

Staff 2: Dr. Zin May Khaing, Lecturer, Department of Zoology, University of Mandalay, zink7664@gmail.com

2: Topic Title: Discussion and conclusion

Lead: **Dr Naw Zar Chi Linn**, Lecturer, Department of Zoology Mawlamyine University, nawzarchi79@gmail.com

Staff 1: Dr Khaing Myat Myat Htwe, Lecturer, Zoology Department, Mawlamyine University, khine.myat.1818@gmail.com

Staff 2: Dr Than Than Soe, Lecturer, Zoology Department, Mawlamyine University, soethanthan.mlm@gmail.com

Staff 3: Dr Zin Win Mar, Lecturer, Zoology Department, Mawlamyine University, zinwinmar224466@gmail.com

3: Topic Title: *Authorship, acknowledgements and citation Vs references*

Lead: **Professor Dr Aye Aye Myint**, Department of Zoology, Myeik University, ayeayemyint9264@gmail.com

Staff 1: Dr Aye Aye Naing, Associate Professor, Department of Botany, Myeik University ayeayenaing56@gmail.com

Staff 2: Daw Thi Mar Win, Assistant Lecturer, Department of Zoology, Myeik University

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Student1: Kyaw Yadanar Min, Demonstrator (Part Time), Department of Zoology, Myeik University
kyawadanarmin2@gmail.com

Student 2: Zin Mar Win, Demonstrator (Part Time) Department of Zoology, Myeik University
zinmartintun011@gmil.com

Topics assigned by Dr Lutz in 'Methods in BioCEP (field/practical)':

1: Topic Title: *Sampling designs for forest inventories*

Lead: **Dr. Soe Soe Aung**, Professor, Department of Botany, University of Mandalay,
soesoeaung18@gmail.com

Staff 1: Dr. Thi Thi Htun, Associate Professor, Botany Department, University of Mandalay
drthithihtun08@gmail.com

Staff 2: Dr. San Mon Thu, Lecturer, Botany Department, University of Mandalay
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Dr. San San Aye, Lecturer, Department of Zoology, University of Mandalay,
sansanaye.mdy88@gmail.com

Dr. Zin May Khaing, Lecturer, Department of Zoology, University of Mandalay, zink7664@gmail.com

2: Topic title: *Groundwater pollution and remediation*

Lead: **Dr. Kyu Kyu Mar**, Associate Professor, Department of Geology, University of Mandalay, kyukyu.geol@gmail.com

Staff 1: Dr. Myo Thiri Sandar Aung, Associate Professor, Department of Geology, Myeik University,
myothiri17gmail.com

Staff 2: U Myint Swe, Associate Professor, Department of Geology, Myeik University, myintswe044@gmail.com

Student 1: Daw May Myat Noe, 2nd Year MSc and Part-time Demonstrator, Department of Zoology, University of Mandalay, myatnoe797121209@gmail.com

3: Title: *Mangrove inventory and estimation of diversity indices*

Lead: **Dr Aung Aung Aye**, Lecturer, Dept. of Marine Science, Myeik University,
aungaungaye2009@gmail.com, draungaungayeMarine@myeikuniversity.edu.mm

Staff 1: Daw Pann Mo Mo, Demonstrator, Dept. of Marine Science, Myeik University
panmomo23@gmail.com, pannmomoMarine@myeikuniversity.edu.mm

Student 1: Ma May Zune Thein, 2nd Year MSc and Part-time Demonstrator, Dept. of Marine Science, Myeik University mayzunethein126@gmail.com

Student 2: Ma Phyu Phyu Thin, 2nd Year MSc and Part-time Demonstrator, Dept. of Marine Science, Myeik University phyu.thin.1001@gmail.com

Topics assigned by Dr Alfonso in 'Ecology, biodiversity and conservation biology':

1: Topic title: *Habitat Loss and Fragmentation*

Lead: **Dr Aung Myo San**, Lecturer, Marine Science Department, Mawlamyine University,
ms.aungmyohsan.ms@gmail.com

Staff 1: Dr. Sein Moh Moh Khaing, Lecturer, Marine Science Department, Mawlamyine University,
seinmarine@gmail.com,

Staff 2: Dr. Jar San, Lecturer, Marine Science Department, Mawlamyine University, jarsan.jarsan@gmail.com

2: **Topic:** *The Role of Science in Biodiversity Conservation*

Lead: **Dr Sabae Oo**, Lecturer, Department of Zoology, University of Mandalay,
sabaelay18@gmail.com

Staff 1: Dr Khin Moh Moh Tun, Lecturer, Department of Zoology, University of Mandalay,
khinmmt1985@gmail.com

3: **Topic Title:** *Impact of overharvest of natural populations*

Lead: **Dr Htet Htet Lin**, Lecturer, Department of Zoology, Mawlamyine University,
htethtetlin298@gmail.com

Staff 1: Daw Phyu Pyar Tin, Assistant Lecturer, Department of Zoology, Mawlamyine
University, phyupyartin@gmail.com