CSSTEAP Activities during Covid-19 Crisis period

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CSSTEAP Activities during Covid-19 Crisis period

Background

• UN-OOSA identified India as host country for establishing the Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP) and the Centre was established in November, 1995

• Hosted by Government of India with Department of Space as nodal agency.

• CSSTEAP resolution made it responsible for capacity building

• Commitment is embodied in the Indian sloka, “ज्ञानंदानात वृढ्यते”

• Made substantial progress in furthering knowledge and experience of space applications in the region
CSSTEAP Activities during Covid-19 Crisis period

• CSSTEAP is committed to dissemination of technical information and capacity building

• Despite the serious challenges that the Covid-19 period put during the last more than 1 year, the following CSSTEAP activities were carried out

• We shall present here the activities that CSSTEAP-GNSS carried out during the Covid-19 crisis period during the last 1 ½ year.
GNSS Course

- Classes on Navigation since beginning of this century
- Started full term course from 2015: 9-month duration
- Conducted by Space Applications Centre, ISRO, Ahmedabad

<table>
<thead>
<tr>
<th>Course</th>
<th>Year</th>
<th>Participants</th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>GNSS-01</td>
<td>2015-2016</td>
<td>09</td>
<td>04</td>
</tr>
<tr>
<td>GNSS-02</td>
<td>2017-2018</td>
<td>12</td>
<td>05</td>
</tr>
<tr>
<td>GNSS-03</td>
<td>2019-2020</td>
<td>15</td>
<td>08</td>
</tr>
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</table>
Covid-19 Lockdown and its aftermath

• Lockdown imposed in the wake of Covid-19 pandemic from 25 March, 2020
• Evaluation of Participants’ pilot project were done in online mode. Valedictory session conducted online.
• Students had to stay back. All amenities and allowances during excess stay were arranged by CSSTEAP
• Special medical check-up during the stay
• Safely sent back participants
• Some arrangements by Road with safety protocols to avail special repatriation flights
### CSSTEAP Activities during Covid-19 Crisis period

**Repatriation of GNSS 03 students**

<table>
<thead>
<tr>
<th>Country</th>
<th>Number of Students</th>
<th>Left Ahmedabad on</th>
<th>To</th>
<th>Mode</th>
<th>Details</th>
<th>Left India on</th>
<th>To</th>
<th>Mode</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Myanmar</td>
<td>1</td>
<td>18-05-2020</td>
<td>Delhi</td>
<td>By Road</td>
<td>SAC ISRO CAR</td>
<td>19-05-2020</td>
<td>Yangon</td>
<td>By Air</td>
<td>UB-7004</td>
</tr>
<tr>
<td>Indonesia</td>
<td>1</td>
<td>19-05-2020</td>
<td>Mumbai</td>
<td>By Road</td>
<td>Bus</td>
<td>22-05-2020</td>
<td>Jakarta</td>
<td>By Air</td>
<td>AI-1312</td>
</tr>
<tr>
<td>Nepal</td>
<td>1</td>
<td>26-05-2020</td>
<td>Lucknow</td>
<td>By Air</td>
<td>6E-244</td>
<td>26-05-2020</td>
<td>Gauriphanta</td>
<td>By Road</td>
<td>ISTRAC Car</td>
</tr>
<tr>
<td>Tajikistan</td>
<td>1</td>
<td>26-05-2020</td>
<td>Delhi</td>
<td>By Air</td>
<td>AI-532</td>
<td>28-05-2020</td>
<td>Dushanbe</td>
<td>By Air</td>
<td>SZ-110</td>
</tr>
<tr>
<td>Philippines</td>
<td>1</td>
<td>29-05-2020</td>
<td>Delhi</td>
<td>By Air</td>
<td>AI-532</td>
<td>30-05-2020</td>
<td>Manila</td>
<td>By Air</td>
<td>AI-1316</td>
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<tr>
<td>Bangladesh</td>
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<td>31-05-2020</td>
<td>Kolkata</td>
<td>By Air</td>
<td>6E-962::6E-307</td>
<td>01-06-2020</td>
<td>Dhaka</td>
<td>By Air</td>
<td>AI-1230</td>
</tr>
</tbody>
</table>
Online course on GNSS conducted

• A short course on GNSS was planned to be conducted in September, 2020

• It was designed, planned and about to be announced as the Covid-19 situation worsened in India and consequently lockdown was imposed.

• Announcement was indefinitely postponed
Online course on GNSS conducted

• With the improvement in the situation, two realisations were made

  (A) It is necessary to continue with the training and capacity building activities

  (B) To offer the introductory course

• Announcement of online short course on “Introduction to Satellite Navigation”
Online course on GNSS conducted

- From September 13\textsuperscript{th} to September 24\textsuperscript{th}, 2021
- Good response obtained 67 valid applications received from 14 different countries; 56 selected
- Reading materials provided a-priori
- Matlab based online hands on practical work to give the deep insight of the concepts
M.Tech Defence viva made online

• M.Tech students completing project could give defence viva online in presence of subject expert

• Students didn’t have to wait for congenial situations for experts visit

• 3 CSSTEAP GNSS students have benefitted out of this over the last 1 year