


Attendance of the Value Added Course on Materials Synthesis and its Characterization Techniques*											
S. No.	Student name	Register number	S1	S2	S3	S4	S5	S6	S7	S8	Percentage
1	Athira V Kamalon	19MPPI079003	P	P	P	P	P	P	P	P	100
2	Nisha G	19MPPI079009	P	P	P	A	P	P	A	P	75
3	Mohith R	19MPPI079008	P	P	P	P	P	A	P	P	87.5
4	Arwin Mathew	19MPPI079002	P	P	P	P	P	P	P	P	100
5	Lasubon Syrti	19MPP1079006	P	P	P	P	P	P	P	P	100
6	Spoorthi S	20MPPY104015	P	P	P	P	P	P	P	P	100
7	Salman khan	20MPPY104011	P	P	A	P	P	A	P	P	75
8	Darshan C	20MPPY104004	P	P	P	P	P	P	P	P	100
9	Bindu N	20MPPY104003	P	P	P	P	P	P	P	P	100
10	Sonani Avnik	20MPPY104014	P	P	P	P	P	P	P	P	100
11	Athira K Nair	20MPPY104002	P	P	P	P	P	P	P	P	100
12	Sharvani MV	20MPPY104013	A	P	P	P	P	P	P	P	87.5
13	Apoorva D	20MPPY104001	P	P	P	P	P	P	P	P	100
14	Sushma Athokpam	20MPRP712002	P	P	P	P	P	A	P	P	87.5
15	Tamilarasu G	20MPPY104016	P	P	P	P	P	P	P	P	100
16	Akash Daniel Georgi	19MPRP712001	P	P	P	P	P	P	P	P	100
17	Garima Singh	20MPPY104008	P	P	P	P	P	P	P	P	100
18	Jipin P M	20MPPY104009	P	P	P	P	P	A	P	P	87.5
19	Nitu Rathod	20MPPY104010	P	P	P	P	P	P	P	P	100
20	Sathvik Malla	20MPPY104012	P	P	P	P	P	P	P	A	87.5
21	Dheebte S	20MPPY104005	P	P	P	A	P	P	P	P	87.5
22	Tanu Choudhary	20MPPY104017	P	P	P	P	P	P	P	P	100
23	Amruthesh A V Bhat	20mpy104018	P	P	A	P	A	P	P	P	75
24	Durga Dhanasha K P	20MMPY104007	P	P	P	P	P	P	P	P	100
25	Dimple Kumari	20MPPY104006	P	P	P	P	P	A	A	P	75
26	Jyothsna M	19MPPI079005	P	A	A	P	P	P	P	P	75
*This attendance is consolidated from the individual attendance sheets generated by Microsoft team automatically											

  
HOD  
Department of Physics  
Faculty of Mathematical and Physical Sciences  
Ramaiah University of Applied Sciences  
Bangalore - 560 058.

  
Registrar  
M.S. Ramaiah University of Applied Sciences  
Bangalore - 560 054  
M.S. Ramaiah University of Applied Sciences  
Registrar

  
Dean  
Faculty of Mathematical and Physical Sciences  
M.S. Ramaiah University of Applied Sciences  
Bangalore-560058

**Faculty of Mathematical and Physical Sciences  
Department of Physics**

**Report on Value Added Course on "Materials synthesis and its characterization techniques"**

<b>Name of the event</b>	Value added course on "Materials synthesis and its characterization techniques"
<b>Duration</b>	8 days (30 hours) (22 <sup>nd</sup> July 2021 to 31 <sup>st</sup> July 2021)
<b>Mode</b>	Online (Microsoft Teams)
<b>Total number of participants</b>	26
<b>Resource persons</b>	<ul style="list-style-type: none"> <li>• Dr. Premakumar H. B., Associate Professor, Department of Physics, RUAS.</li> <li>• Dr. Shivanand M., Assistant Professor, Department of Physics, RUAS.</li> <li>• Dr. Ravikuamr B. S., Assistant Professor, Department of Physics, RUAS.</li> <li>• Dr. Priyanka K.P., Assistant Professor, Department of Physics, RUAS.</li> <li>• Dr. Mallikarjunaiah K.J. Assistant Professor, Department of Physics, RUAS.</li> <li>• Dr. Manjunatha S.O., Assistant Professor, Department of Physics, RUAS.</li> </ul>
<b>MS Teams link</b>	<a href="https://teams.microsoft.com/l/meetup-join/19%3ad0e9ec950da24d57b3db0a06e59e45ca%40thread.tacv2/1619959643308?context=%7b%22Tid%22%3a%22e038180b-0021-401f-83a9-a2d45acee0dc%22%2c%22Oid%22%3a%225a3fbf8c-7a0a-4cb1-b78b-59c6e8aa0823%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ad0e9ec950da24d57b3db0a06e59e45ca%40thread.tacv2/1619959643308?context=%7b%22Tid%22%3a%22e038180b-0021-401f-83a9-a2d45acee0dc%22%2c%22Oid%22%3a%225a3fbf8c-7a0a-4cb1-b78b-59c6e8aa0823%22%7d</a>
<b>Benefit/Key outcome of the event in terms of learning/skills /knowledge</b>	<ul style="list-style-type: none"> <li>➤ The students are expected to understand basic principles of the synthesis and characterization techniques presented in the course, specific usage, their advantages and limitations.</li> <li>➤ Furthermore, the student should be able to understand the requirements for samples suitable for each characterization techniques used.</li> <li>➤ They should be able to operate the instruments based on the knowledge gained.</li> <li>➤ They should be able to analyze the synthesized materials using characterization techniques.</li> </ul>



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**Description of the activity:**



### Schedule of the Value Added Course on "Materials synthesis and its characterization techniques"

Day and date	Time	Resource person	Topic
Day-1: Thursday 22-July-2021	10 am to 2 pm	Dr. Ravikumar B. S.	Session 1: Synthesis of nanomaterials by combustion synthesis method
Day-2: Friday 23-July-2021	10 am to 2 pm	Dr. Shivanand M.	Session 2: Synthesis of metal oxide composites by solid state reaction method
Day-3: Saturday 24-July-2021	10 am to 2 pm	Dr. Manjunatha S. O.	Session 3: Magnetic and electric property measurement
Day-4: Monday 26-July-2021	10 am to 2 pm	Dr. Premakumar H. B.	Session 4: Photo and Thermo Luminescence technique
Day-5: Tuesday 27-July-2021	10 am to 2 pm	Dr. Shivanand M	Session 5: Introduction to materials characterization and analysis of single phase by XRD.
Day-6: Wednesday 28-July-2021	10 am to 2 pm	Dr. Ravikumar B. S.	Session 6 : Determination of lattice parameter, crystal size, strain measurement using x-ray powder diffraction.
Day-7: Thursday 29-July-2021	10 am to 2 pm	Dr. Priyanka K. P.	Session 7: Structural and morphological studies using scanning electron microscopy (SEM) and transmission electron microscopy (TEM).
Day-8: Friday 31-July-2021	10 am to 2 pm	Dr. Mallikarjuniahiah K.J.	Introduction to molecular and UV Visible spectroscopy, Optical measurements using UV-vis spectrometer, experiment details along with data collection and its analysis

### Microsoft Teams Links to Join the Value Added Course on "Materials synthesis and its characterization techniques"

Day and Date	Link to the Teams Meeting
22-July-2021	<a href="https://teams.microsoft.com/l/meetup-join/19%3ad0e9ec950da24d57b3db0a06e59e45ca%40thread.tacv2/1619959643308?text=%7b%22id%22%3a%22e038180b-0021-401f-83a9-a2d45acee0dc%22%2c%22oid%22%3a%225a3fbf8c-7a0a-4cb1-b78b-59c6e8aa0823%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ad0e9ec950da24d57b3db0a06e59e45ca%40thread.tacv2/1619959643308?text=%7b%22id%22%3a%22e038180b-0021-401f-83a9-a2d45acee0dc%22%2c%22oid%22%3a%225a3fbf8c-7a0a-4cb1-b78b-59c6e8aa0823%22%7d</a>
23-July-2021	<a href="https://teams.microsoft.com/l/meetup-join/19%3ad0e9ec950da24d57b3db0a06e59e45ca%40thread.tacv2/1619959643308?text=%7b%22id%22%3a%22e038180b-0021-401f-83a9-a2d45acee0dc%22%2c%22oid%22%3a%225a3fbf8c-7a0a-4cb1-b78b-59c6e8aa0823%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ad0e9ec950da24d57b3db0a06e59e45ca%40thread.tacv2/1619959643308?text=%7b%22id%22%3a%22e038180b-0021-401f-83a9-a2d45acee0dc%22%2c%22oid%22%3a%225a3fbf8c-7a0a-4cb1-b78b-59c6e8aa0823%22%7d</a>
24-July-2021	<a href="https://teams.microsoft.com/l/meetup-join/19%3ad0e9ec950da24d57b3db0a06e59e45ca%40thread.tacv2/1619959643308?text=%7b%22id%22%3a%22e038180b-0021-401f-83a9-a2d45acee0dc%22%2c%22oid%22%3a%225a3fbf8c-7a0a-4cb1-b78b-59c6e8aa0823%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ad0e9ec950da24d57b3db0a06e59e45ca%40thread.tacv2/1619959643308?text=%7b%22id%22%3a%22e038180b-0021-401f-83a9-a2d45acee0dc%22%2c%22oid%22%3a%225a3fbf8c-7a0a-4cb1-b78b-59c6e8aa0823%22%7d</a>
26-July-2021	<a href="https://teams.microsoft.com/l/meetup-join/19%3ad0e9ec950da24d57b3db0a06e59e45ca%40thread.tacv2/1619959643308?text=%7b%22id%22%3a%22e038180b-0021-401f-83a9-a2d45acee0dc%22%2c%22oid%22%3a%225a3fbf8c-7a0a-4cb1-b78b-59c6e8aa0823%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ad0e9ec950da24d57b3db0a06e59e45ca%40thread.tacv2/1619959643308?text=%7b%22id%22%3a%22e038180b-0021-401f-83a9-a2d45acee0dc%22%2c%22oid%22%3a%225a3fbf8c-7a0a-4cb1-b78b-59c6e8aa0823%22%7d</a>



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Course Name : Multivariate methods for analysis using JMP

Session Link : <https://teams.microsoft.com/l/meetup-join/19%3ad101a2d4b8bf4fadb36e1429d029fe38%40thread.tacv2/1599541614147?context=%7b%22Tid%22%3a%22e038180b-0021-401f-83a9-a2d45acee0dc%22%2c%22Oid%22%3a%221347a05d-15a1-466d-b702-2cd1e70f3ccf%22%7d>



*gc*  
Registrar  
M.S. Ramaiah University of Applied Sciences  
Bangalore - 560 054