

Government of India
Department of Atomic Energy
Indira Gandhi Centre for Atomic Research
Materials Science Group
Condensed Matter Physics Division



BONAFIDE CERTIFICATE

This is to certify that Ms. S.N. Keerthana, 3rd year B.Sc. (Physics), Sathyabama Institute of Science and Technology has carried out her summer internship on **“Determination of crystal structure of polycrystalline Si powder from X-ray diffraction pattern”** in the month of April 2021 under my guidance in Condensed Matter Physics Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam. During this period, she has been exposed to X-ray diffraction technique and basic X-ray crystallography. She was provided with X-ray diffraction pattern of Silicon powder for crystal structure determination. She has carried out analysis and calculated lattice parameters. In addition, she also learnt “Visualization for Electronic and Structural Analysis” (VESTA) software, to view crystal structure of Si. She is very enthusiastic in learning the subject and her ability in understanding and carrying out research is good. I wish her all the best in her future endeavors.

Place: IGCAR, Kalpakkam
Date: 03.11.2021

Nithya 3/11/2021
Dr. Nithya Ravindran
Scientific Officer (G)
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