

# Rashtrasant Tukadoji Maharaj Nagpur University

"Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017)"

Re-accredited 'A' Grade by NAAC



## Doctor of Philosophy (विज्ञान व तंत्रज्ञान आचार्य) (Faculty of Science and Technology)

*This is to certify that  
Shri Sharad Balasaheb Gholap having been  
found to be duly qualified on examination of the  
thesis entitled "Implementatin of Cognitive Radio Test-Bed  
for Efficient Utilization of ISM Band and Spectrum  
Sensing Application in Wireless Communication" was  
admitted to the degree of Doctor of Philosophy  
(विज्ञान व तंत्रज्ञान आचार्य) in the Faculty of Science and  
Technology in the Subject of Electronics Engineering  
in this University in the year 2019.*

Nagpur

Dated : 18-1-2020



107<sup>th</sup> Convocation 2020

*Smane*  
Vice-Chancellor  
**ATTESTED**  
PRINCIPAL