



Reg.No.2011120011/RG



*The Syndicate of the Anna University hereby makes known that SUBHAA R has been admitted to the DEGREE OF DOCTOR OF PHILOSOPHY under the Faculty of Mechanical Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year 2018. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".*

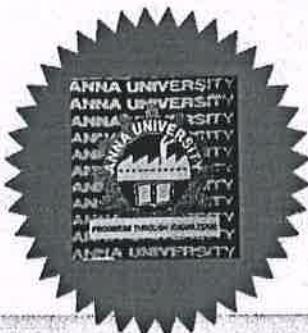
*Title of the Thesis:*

**DEVELOPMENT OF MODELS AND SEARCH HEURISTICS FOR THE DESIGN OF CELLULAR MANUFACTURING SYSTEM ASSOCIATING SCHEDULING AND CROSS-FLOW**

*Given under the seal of the University*

*Dr. D. Senthil Kumar*

**Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (MUS)**  
Principal  
SSM Institute of Engineering and Technology  
Kuttathupatti Village, Sindalagundu (P.O.),  
Palani Road, Dindigul - 624 002



Chennai 600025  
India  
December 2018  
FAB/12/2018

*7. [Signature]*  
**Controller of Examinations**

*[Signature]*  
**Registrar**

*M.K. [Signature]*  
**Vice-Chancellor**