

**DESIGN AND EVALUATION OF NOVEL DELIVERY
SYSTEMS OF TAPENTADOL FOR
ENHANCED BRAIN DELIVERY**

THESIS

*submitted in partial fulfillment
of the requirements for the degree of*

**DOCTOR
OF
PHILOSOPHY**

By

Jaya Abraham

Under the supervision of

Prof. R.N.Saha



BITS Pilani
Pilani | Dubai | Goa | Hyderabad

**BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE,
PILANI**

2018