



Mahatma Education Society's  
**Pillai HOC College of Arts, Science & Commerce, Rasayani**  
(Accredited by NAAC)  
Pillai HOCL Educational Campus, Rasayani, Taluka Khalapur,  
Dist. Raigad - 410207 Maharashtra, India



# PROSPECTUS

## ADD ON/ CERTIFICATE / DIPLOMA PROGRAM

# A.Y. 2020-21

# INDEX

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2	Machine Learning with Python	11
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3	Positive Psychology	30

<b>Sr. No.</b>	<b>Title</b>	<b>Faculty In-charge</b>	<b>Email id</b>	<b>Mobile number</b>
1	Advance Excel and English speaking	Prof. Hardik Dave	<a href="mailto:hardikdave@mes.ac.in">hardikdave@mes.ac.in</a>	9930830304
2	Machine Learning with Python	Prof. Ravi Mhatre	ravim@mes.ac.in	9967719262
3	NUSSD- Diploma in E-commerce and Digital Marketing	Prof. Harshita Singh	<a href="mailto:hsingh@mes.ac.in">hsingh@mes.ac.in</a>	9769101811
4	Tally- ERP and GST	Prof. Hardik Dave	<a href="mailto:hardikdave@mes.ac.in">hardikdave@mes.ac.in</a>	9930830304
5	Positive Psychology	Dr. Jayanta Behera	<a href="mailto:jayanta@mes.ac.in">jayanta@mes.ac.in</a>	9022876037



**Satyam Institute of TaxAccountants**

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**In Collaboration with**

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**Free Course Information Book**

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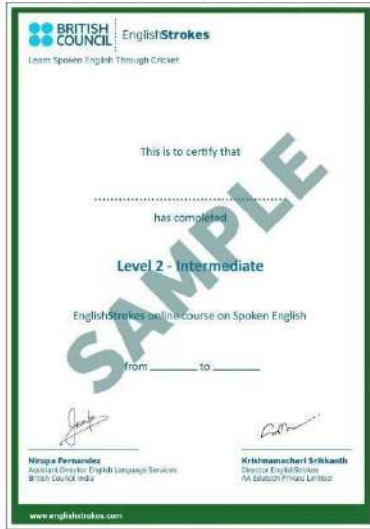
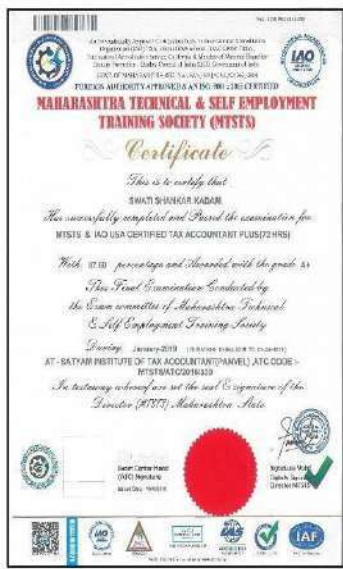
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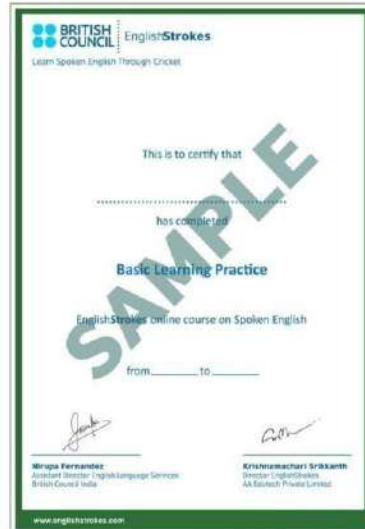
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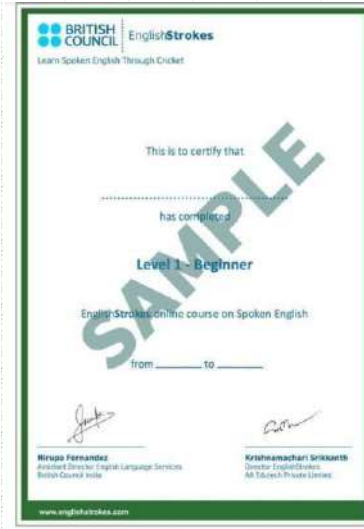
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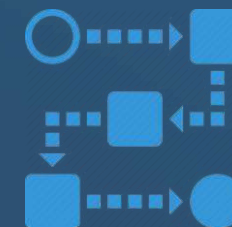




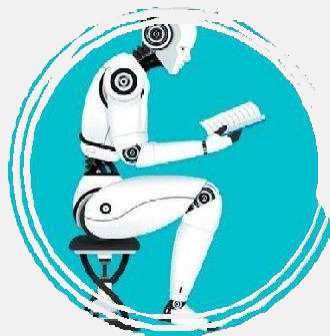
11 September, 2020



10am to 12pm



ML Project creation process



# Machine Learning

with python

## Part-I



Assignment series



Case Study



14 Hrs.

16 Hrs.



7 Days

Practice session



Required Notes

Registration link: <https://forms.gle/xMDYrrhKqM8fU5BX6>



# Part-I

# Machine Learning with python

## Syllabus(Python)

- Why Python is so famous.
- Dynamic & Static programming Language
- Proper installation of Python & Pycharm
- **Conditional Statement:** if, if-else, Nested if-else
- **Loop:** for, while, Nested loop
- **Function:** Return statement, recursion function, Lambda function
- **Data-Types:** String, List, Tuple, Dict, Set.....
- **Package & Module:** Creation, PIP, 3<sup>rd</sup> party packages
- **Exception Handling:** try, except, raise, else, finally
  
- **MongoDB:** Environment setup, MongoDB Compass
- **Connectivity with python :** CRUD Operation

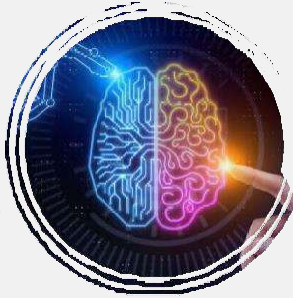
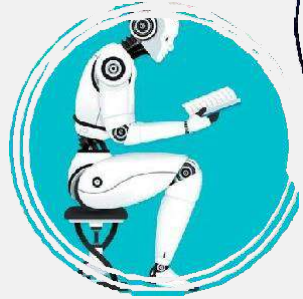
## Syllabus(Machine Learning)

- Complete Python syllabus (Previous page)
- **Proper installation of Anaconda:**
  - Spyder, Jupyter Notebook
- **Data Science Libraries:** Pandas, Numpy, Matplotlib
- **Data Analysis:** value counts group, missing values
- **Data Visualization:** Graph, bar graph, pie chart
- **Types of Machine Learning Algorithm:**
  - Supervised, Unsupervised, Reinforcement
- Machine Learning Complete process
- **Pre-Processing techniques:** FeatureScaling, LabelEncoder
- **Model:** Liner Regression, Polynomial Regression, Logistic Regression, SVM, Naïve Bayes.
- Required Notes

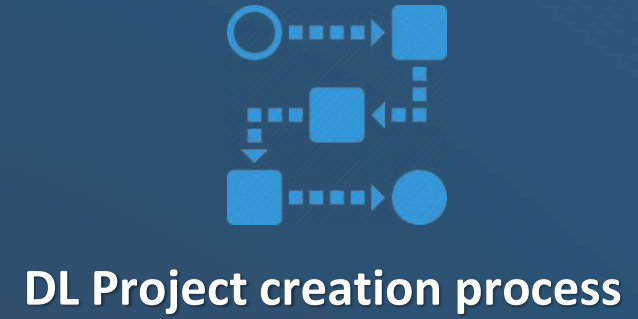
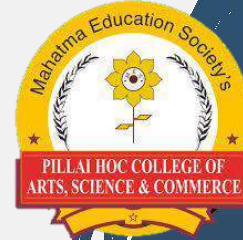
Registration link: <https://forms.gle/xMDYrrhKqM8fU5BX6>



# Advance Machine Learning with python



## (Deep Learning) Part-II



Assignment series



Case Study



Required Notes



30 Hrs.

4 Hrs.



15 Days (7+8)

Practice session

Registration link: <https://forms.gle/xMDYrrhKqM8fU5BX6>



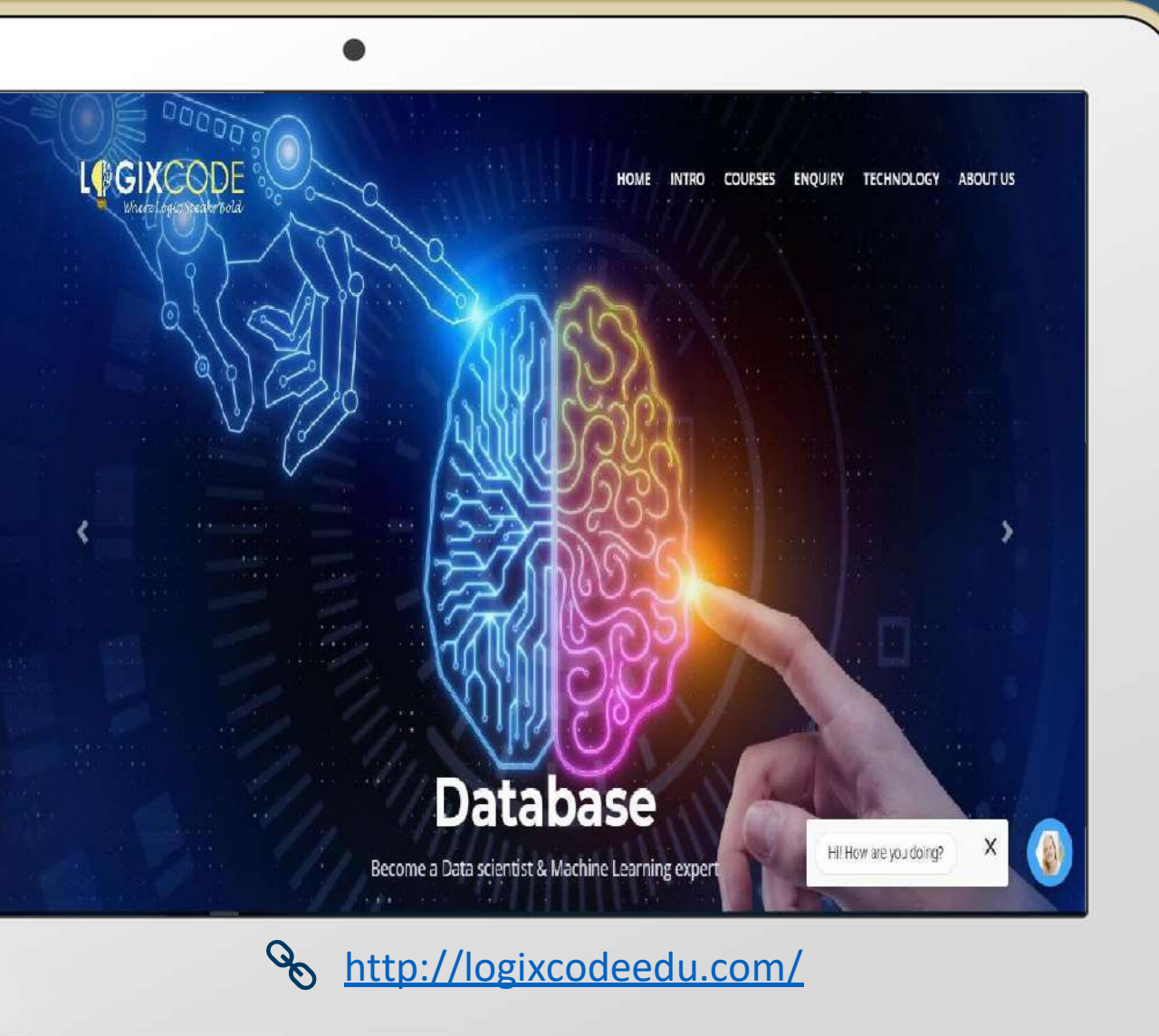
## Complete Part-I Syllabus

### Syllabus(Deep Learning)

- Complete Python syllabus(previous page)
  - Complete Machine Learning syllabus(previous page)
  - How Does AI Solve Real World Problems?
  - Application of Artificial Intelligence
  - Future of Artificial Intelligence in India
  
  - Natural language Processing
  - Application of NLP
  - Feature extraction
  - Process of NLP creation in practical aspect
- **Deep Learning Libraries:** Keras & Tensorflow
  - Introduction of Deep Learning
  - Types of Neural Network
  - Backpropagation algorithm
  - Connectionism of Neurons
  - Activation Function
  - Gradient descent
  - Stochastic Gradient Descent
  - Re-inforcement Learning: Bellman equation
  - **Agent – Environment Problem:** Q-Learning (Practical Aspect)
  - Reward Maximization

Registration link: <https://forms.gle/xMDYrrhKqM8fU5BX6>





<http://logixcodeedu.com/>

Ritesh Maury



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info@logixcodeedu.com



After complete of this course students will get certificate



# NUSSD

National University Students'  
Skill Development Programme



## “Skilling and Empowering Youth For A Better Tomorrow”

The Tata Institute of Social Sciences (TISS), in consultation with the Ministry of Youth Affairs & Sports (GoI) and the National Skill Development Agency (NSDA), started a project, titled “The National University - Students’ Skill Development (NUSSD)” by introducing “Skill Training” for college students, so that the graduating youth acquire job related skills through immersive projects.

# WHY NUSSD?

The employability of India's university graduates continues to remain weak even while there is an acute shortage of skilled manpower in an increasing number of high demand sectors. The youth is thus disillusioned about job opportunities post their studies. Unfortunately, though they have educational degrees, they lack skills and the experience to get employed.

## Overall, NUSSD is aimed at:

- Helping students gain sustainable and relevant employable skills along with their degree to find work after graduation
- Capacity building of the Youth to be responsible citizens
- Positioning the Youth as Agents of Social and Economic Transformation

## Courses Offered

NUSSD courses have an integrated framework that pedagogically links academic course content, skill training and application as a unique educational experience. They have been designed in a modular, interlinked and iterative manner; cumulatively building knowledge, skills, and competencies; administered through classes and field work.

### Certificate In Management & Soft Skills

- ▣ English Communication
- ▣ Financial Literacy
- ▣ Digital Literacy
- ▣ Working with Communities
- ▣ Legal Literacy
- ▣ Youth Leadership & People Skills

### Diploma Course

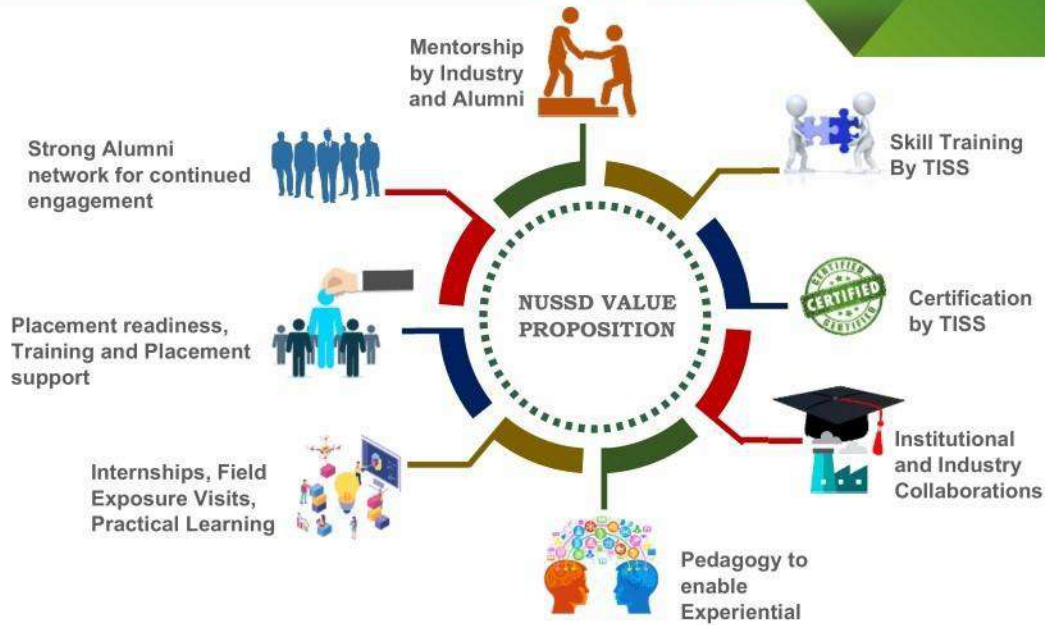
- ▣ Diploma in Entrepreneurship
- ▣ Diploma in Banking & Financial Services Management
- ▣ Diploma in Hospital Service Management
- ▣ Diploma in Digital Marketing
- ▣ Diploma in Retail Management
- ▣ Diploma in Pharmaceutical Sales Management
- ▣ Diploma in Export Import Management
- ▣ Diploma in Travel Tourism

\*This is just an indicative list





## Value Proposition



### Partnership



220 Colleges  
07 States  
02 Stat Govt.

### Students Trained



25000+ Students  
Across  
Country

### Trainers



1000+ Trainers  
On-Board

### Placements



8400+ Students  
employed

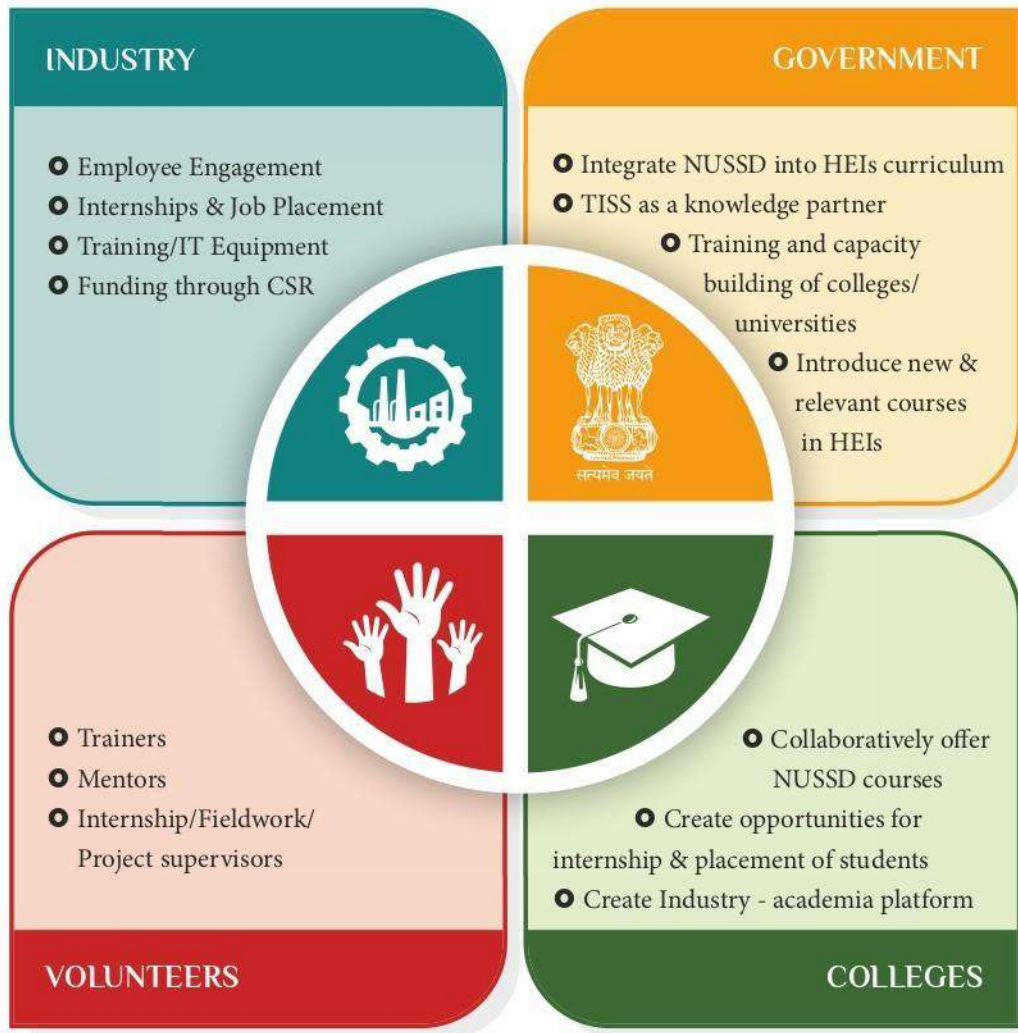
## Placement Support

The NUSSD programme supports students by conducting Pool campus and Off campus placements to place atleast 70 percent of its students in meaningful jobs. By engaging the college and students' core committee in the placement process, TISS also supports and strengthens the existing placement cells in the colleges and universities where the programme is being conducted.



In recognition of the efforts and impact, the United Nations (UN) Major Group for Children and Youth recognised the 'NUSSD' as a "Skill Development Best Practice" in the country.

# PARTNERSHIP OPPORTUNITIES



Follow us:



Contact Us //

**TATA INSTITUTE OF SOCIAL SCIENCES(TISS)**

Room No. 5, Kaushal Kendra Building

Malti and Jal, A.D. Naoroji Campus (New Campus)

Deonar Farm Road, Deonar, Mumbai – 400088

Tel.: 022-2552 5691 / 93



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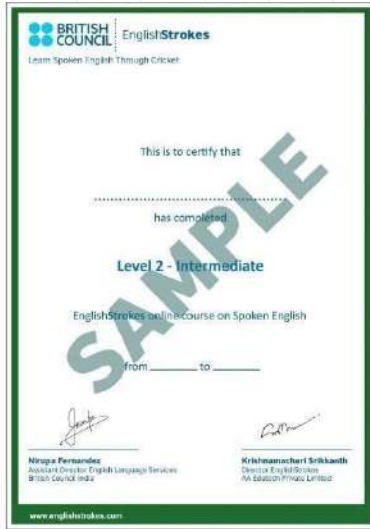
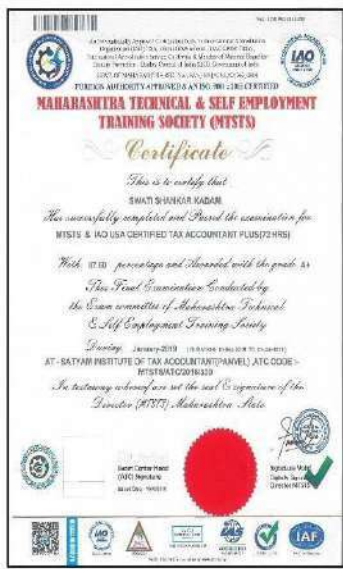
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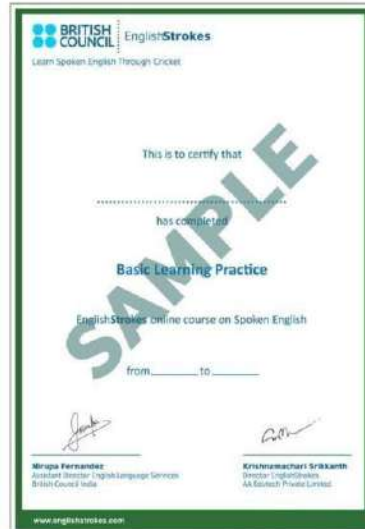
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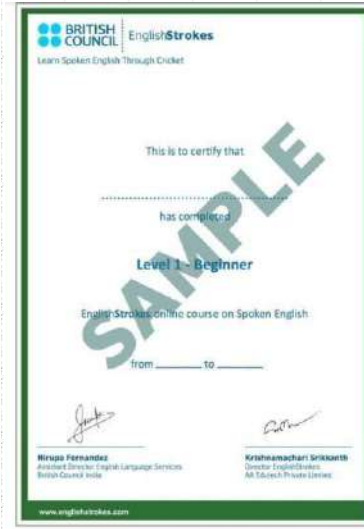
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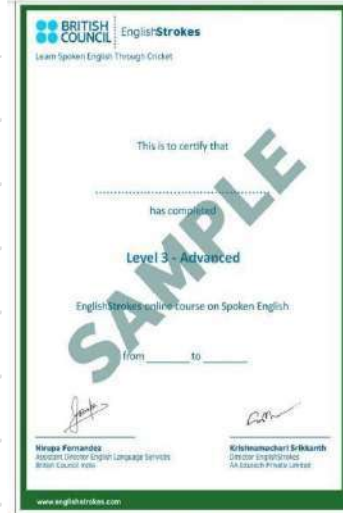
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9076210623





## Certificate Programme

on

# Positive Psychology

*Pillai*

## Course Outcomes

- To bring an experience marked by predominance of positive emotions and informing the students about evolving paradigm of Positive Psychology
- To build relevant competencies for experiencing and sharing happiness and its implications in life

Course Duration: 30 Hours per Academic Year

Total Fees: Rs. 1000/- per Academic Year

\*All the students will receive certificates after completion of the course.

# COURSE CONTENT

## *Introduction to Positive Psychology For First Year*

---

### (ODD SEM)

- Past
- Present
- Future

### (EVEN SEM)

- Health
- Relationships
- Belief System

## *Fundamentals in Positive Psychology For Second Year*

---

### (ODD SEM)

- Stress Management
- Talent Management
- Personality Management

### (EVEN SEM)

- Empathy
- Sense of Purpose
- Inclusiveness & Belongingness

## *Advanced Positive Psychology For Third Year*

---

### (ODD SEM)

- Personalized Kit for Enrichment
- Positive Psychology Interventions
- Roots for Resilience

### (EVEN SEM)

- Emotional Intelligence
- Social Intelligence
- Adversity Endurance