

# ADVANCED SKILL DEVELOPMENT COURSES



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## Additional Skill Acquisition Programme (ASAP)

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The Additional Skill Acquisition Programme (ASAP) is a skilling intervention, jointly implemented by the Department of General Education and the Department of Higher Education, Government of Kerala, targeted towards tackling the issue of low employability among youth in Kerala, by imparting foundation skills and industry-relevant training to select students of Government and Government-

aided schools and undergraduate colleges, which are associated Partner Institutions within the programme. From its inception in 2012, ASAP has been able to make commendable impact within the skilling eco-system in the State, both in terms of skilling the youth of the State, as well as implementing national qualification framework and establishing programme-wise quality assurance framework.

## Advanced Skill Development Centers (ASDCs)

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Realizing the gap between the skill sets required by the industry and the knowledge level of the students in Higher education institutions in the state, ASAP set up its Advanced Skill Development Centres in Engineering Colleges and Polytechnics across Kerala. The ASDCs are envisioned to equip students with futuristic and advanced skill sets required for 4.0 industrial revolution. The

training conducted through ASDCs will be in sync with industry requirements regularly updated to meet emerging market needs and will be transacted through qualified and competent professionals thereby equipping students with the skills, capabilities and competencies required to be globally competitive and tap the emerging potential opportunities.

## What we do?

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### Identifying institutions for setting up ASDCs:

The institutions where the ASDCs are set up and courses are offered are identified considering academic factors such as the results of students, interest of the institution fraternity towards new schemes, infrastructure available at the institutions, etc. A nodal officer is also appointed at each ASDC for coordinating the activities for the respective institution.

### Faculty Development Programmes:

Based in the underlying perception that the upskilling of the pupil begins with the upskilling of the teacher, ASAP conducts regular "Training of Trainers" programmes to bring to pace the faculty members with the changes in the technologies used by the industry.

### Student Mobilization:

ASAP has a strong team of over 200 Programme Managers across the state who are actively involved in student mobilization activities such as campaigning at each

institution and orientation to the students across colleges and subject streams to facilitate informed decision-making.

### Offer courses based on Industry Skill Requirements

Based on field surveys and analysis of various studies conducted we list down the courses that are currently industry-relevant. The courses and the curriculum is regularly updated to meet the emerging market needs and prepare human resources in future ready skills demanded by 4th generation industry. The courses offered at ASDCs are either developed in-house by the Curriculum division of ASAP or offered by major industries working in the skill development domain. All the courses offered at ASDCs are NSQF aligned.

### Course transaction:

The courses are offered at ASDCs using teaching aids such as videos, presentations and study material, that is available both offline as well as online, to ensure that core

ideas and concepts are delivered in the intended manner. The faculty trained through the FDP aid the students in completing the courses on time. Furthermore, innovative strategies such as focus group discussions are conducted among students at different skill levels to understand their aspirations. Feedbacks are collected from students at regular intervals to formulate training methods that suit student needs.

#### Assessment & Certification:

The assessments for the courses are conducted by the industry partners through separate assessment platforms. The students successfully completing all Modules and assessments of the course, will be jointly certified by ASAP and the respective industry partner who is the course provider for that course

## Courses to be offered in Engineering Colleges:

Course Name	Duration	Beneficiary Category	Branch	Industry Partner	Fees	Certification
Artificial Intelligence Developer	756 Hours	S5	Any	ASAP	Rs 35000/-	Exact Amount to be fixed
Life Skill Module	100 Hours	3 <sup>rd</sup> Semester	Any	ASAP	Rs3000/- Engineering Colleges	Rs 2500/- (BEC Certification)
Google Associate Cloud Engineer	48 Hours	7 <sup>th</sup> Semester	CS/IT/ECE	Google	NIL	40\$
Robotic process Automation	42 Hours	5 <sup>th</sup> Semester	Any	UiPath	NIL	150\$
Virtual Reality 201 – beginner Level	60 Hours	5 <sup>th</sup> Semester	Any	Facebook School of Innovation – sv.co	NIL (for 1st Batch)	NIL (for 1st Batch)
TCS – Industry Honor Certification	4 Semesters (Each Course 90 Hours)	5 <sup>th</sup> Semester	Any	TCS	Rs 42000/- for 4 electives	IHC will be awarded for students who successfully complete all 4 courses
Salesforce Developer	92 Hours	7 <sup>th</sup> Semester	Any	Salesforce	NIL	200 \$
Salesforce Administrator/ Business Analyst	48 Hours	3 <sup>rd</sup> Semester	Any	Salesforce	NIL	200 \$
Generative Design Beginner Level	45 Hours	3 <sup>rd</sup> Semester	Mechanical/ Civil	AUTODESK		Rs 3000 + GST
AWS Academy Cloud Foundation	20 Hours	5 <sup>th</sup> Semester	Any	AWS Academy	NIL	50\$ + GST
AWS Academy Cloud Associate	40 Hours	Students completing Cloud Foundation	Any	AWS Academy	NIL	75\$ + GST
SDPK Courses	Details will be communicated later					

## Courses to be offered in Polytechnics:

Course Name	Duration	Beneficiary Category	Branch	Industry Partner	Fees	Certification
Life Skill Module	100 Hours	1 <sup>st</sup> Semester	Any	ASAP	Rs 1500/- for Polytechnic	Rs 2500/- (BEC Certification)
Salesforce Administrator/ Business Analyst	48 Hours	3 <sup>rd</sup> Semester	Any	Salesforce	NIL	200 \$
Salesforce Developer	92 Hours	5 <sup>th</sup> Semester	Any	Salesforce	NIL	200 \$
Generative Design Beginner Level	45 Hours	3 <sup>rd</sup> Semester	Mechanical / Civil	AUTODESK	NIL	Rs 3000 + GST
AWS Academy Cloud Associate	40 Hours	Students completing Cloud Foundation	Any	AWS Academy	NIL	75\$ + GST

## TCS INDUSTRY HONOR CERTIFICATION

TCS Industry Honor Certification is a set of Electives developed in collaboration with Industry and Academia. The Courses consist of multi modal content to provide learners with multiple learning enablers. The course is Moderated by an industry expert with a focus on building industry oriented applied knowledge. Elective / Courses are synonymous. The courses are designed for 90 hrs. Each course will spread across 15 weeks up to 5 months and the courses will be offered to 3rd year students onwards. The courses designed in line with semester duration and will be offered using the LMS platform of TCS, the sessions will be a combination of Online lectures, and offline lectures, Hands-on practical session will be conducted using a physical kit-based on the course requirement and also through virtual hands-on environment. On successful completion of one

such course the student will get a certification for the completed course with 5 credit points. If the student successfully completes 4 such courses during the BE, BTech graduation program, the student will get 20 credit points and Industry Honor Certification from TCS.

The course fees per elective is Rs 17000 /- and TCS will be provide a discount to students who are opting 4 courses. The elective course content will be available to the students for 2 years from the date of registration. Faculties from colleges will be nominated by the participating college management for coordination purpose. The role of the faculty will be more in motivating the students, facilitate to complete the given task as per schedule and govern the program inside their college. There is no selection process for the support faculty.

The TCS Industry Honor Certification course has a list of 12 electives listed as follows:

S.No.	Elective	Beneficiary Group
1	TCS iON Industry Honour Certification - Practical Approach to Data Mining and Analytics	Graduation Programme - B.E./B.Tech
		Branch - Computer Science Engineering and Information Technology, Electronics and Communication Engineering, Mechanical Engineering <b>Semester – 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> &amp; 8<sup>th</sup></b>
2	TCS iON Industry Honour Certification - Artificial Intelligence for real world application	Graduation Programme - B.E./B.Tech Branch - Computer Science Engineering and Information Technology, Electronics and Communication Engineering,



		Mechanical Engineering <b>Semester – 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> &amp; 8<sup>th</sup></b>
3	TCS iON Industry Honour Certification - Machine Learning for real world application	Graduation Programme - B.E./B.Tech Branch - Computer Science Engineering and Information Technology, Electronics and Communication Engineering, Mechanical Engineering <b>Semester – 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> &amp; 8<sup>th</sup></b>
4	TCS iON Industry Honour Certification - Applications of Deep Learning and Neural Networks	Graduation Programme - B.E./B.Tech Branch - Computer Science Engineering and Information Technology, Electronics and Communication Engineering, Mechanical Engineering <b>Semester – 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> &amp; 8<sup>th</sup></b>
5	TCS iON Industry Honour Certification - Information Security - Practitioner's perspective	Graduation Programme - B.E./B.Tech Branch - Computer Science Engineering and Information Technology <b>Semester - 5 th, 6 th, 7 th and 8 th</b>
6	TCS iON Industry Honour Certification - Innovation and Entrepreneurship	Graduation Programme - B.E./B.Tech Branch - Computer Science Engineering and Information Technology, Electronics and Communication Engineering, Mechanical Engineering <b>Semester – 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> &amp; 8<sup>th</sup></b>
7	TCS iON Industry Honour Certification - Intelligent Game Design and its applications	Graduation Programme - B.E./B.Tech Branch - Computer Science Engineering and Information Technology, Electronics and Communication Engineering, Mechanical Engineering <b>Semester – 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> &amp; 8<sup>th</sup></b>
8	TCS iON Industry Honour Certification - Usability Design of Software Applications	Graduation Programme - B.E./B.Tech Branch - Computer Science Engineering and Information Technology <b>Semester – 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> &amp; 8<sup>th</sup></b>
9	TCS iON Industry Honour Certification - Applied Cloud Computing	Graduation Programme - B.E./B.Tech Branch - Computer Science Engineering and Information Technology, Electronics and Communication Engineering,

		Mechanical Engineering <b>Semester – 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> &amp; 8<sup>th</sup></b>
10	TCS iON Industry Honour Certification - IoT and its applications	Branch - Computer Science Engineering and Information Technology, Electronics and Communication Engineering, Mechanical Engineering <b>Semester – 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> &amp; 8<sup>th</sup></b>
11	TCS iON Industry Honour Certification - Industrial Mechatronic Systems	Graduation Programme - B.E./B.Tech Branch - Mechanical Engineering Semester - 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup>
12	TCS iON Industry Honour Certification - Solar Energy Technology and its applications	Graduation Programme - B.E./B.Tech Branch - Mechanical Engineering <b>Semester – 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> &amp; 8<sup>th</sup></b>

## Projected Opportunities

- Cloud Engineer
- Cloud Developer Engineer
- Cloud Support Engineer
- Data Scientist
- Machine Learning Engineer
- Robotics Scientist
- Business Intelligence Developer
- AI Research Scientist
- Information Security Analyst
- Information security Auditor
- IoT Product Managers.
- IoT Architect.
- IoT Developer.
- Data Scientists.
- Robot Coordinator.
- IOT Cloud Engineer.
- Industrial Engineer.
- Industrial UI/UX designer

## APPLICATION FORM

<https://learning.tcsionhub.in/EFForms/configuredHtml/1016/63105/login.html>