



SRM-UAV

AIM HIGH. FLY HIGHER



SRM

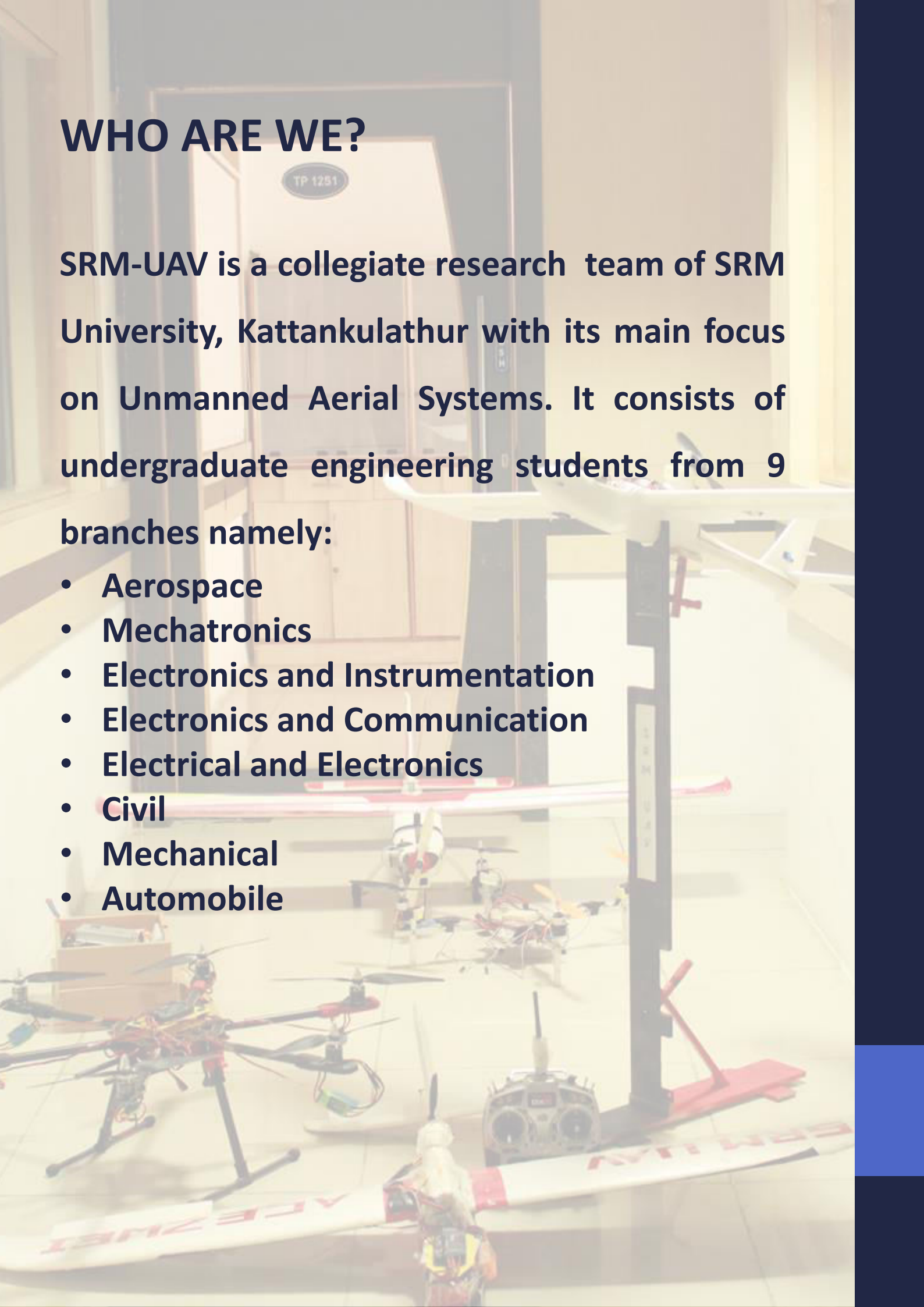
UNIVERSITY

(Under section 3 of UGC Act 1956)

WHO ARE WE?

SRM-UAV is a collegiate research team of SRM University, Kattankulathur with its main focus on Unmanned Aerial Systems. It consists of undergraduate engineering students from 9 branches namely:

- Aerospace
- Mechatronics
- Electronics and Instrumentation
- Electronics and Communication
- Electrical and Electronics
- Civil
- Mechanical
- Automobile





SRM-UAV SALUS

SALUS is a Face Recognition UAV. It is a Quadcopter equipped with a digital camera for face recognition capability. It was primarily designed for use in search and rescue operations to trace and individual and relay their location to the authorities.

Specifications:

- Payload: Sony Cybershot W810 20.1 MP Digital Camera
- Endurance: 35 – 45 minutes
- Fully Autonomous

Current Modifications Under Progress

- Onboard facial recognition and image processing
- Gesture Recognition





SRM-UAV AEOLUS

AEOLUS is a windmill inspection UAV. It is equipped with a DSLR camera mounted on an image stabilization system. The copter is capable of taking high resolution, distortion free images of the surface of windmill blades which reduces the cost, time and risk of life involved in the inspection of wind turbine blades.

Specifications:

- Payload: CANON 70D DSLR Camera, SONY 1/3 inch CCD Camera
- Endurance: 35 – 40 minutes
- Autopilot Processor: 32-bit ARM Cortex M4
- Fully Autonomous

Other Applications:

- High Resolution Aerial Photography
- Film Photography
- Package Deliver





SRM-UAV Micro-Copter

SRM-UAV Micro-Copter is a palm sized UAV for indoor surveillance. It is specifically designed for reconnaissance operations . It is equipped with a FPV camera for live video feed to ground station. The drone is extremely silent and small in size. It would complete the mission even before it gets identified. This aircraft can also be used in emergency situations to assist rescue authorities in indoor spaces.

Specifications:

- Payload: Micro CCD FPV CAMERA
- Weight: 50gms
- Endurance: 7 - 10 minutes
- Fully Autonomous/ Manual (depending upon application)





SRM-UAV X-2

X-2 is a hybrid UAV which combines the advantages of a multi-rotor and a fixed wing aircraft. It is capable of taking-off and landing from almost any location without the need of a runway.

Specifications:

- Endurance: 45-65 minutes
- Autopilot Processor: Atmel's ATMEGA 2560
- Fully Autonomous
- Variable Payload Options

Applications:

- Aerial Photography
- Package Delivery
- Wildlife Surveillance





Ongoing Research Topics

- Gesture recognition
- Sense, detect and avoid -automatically adjust flight path to avoid obstacles.
- Indigenous autopilot system.
- SRM UAV – SONNE, solar powered UAV
- Exploration of Non-Conventional sources of energy for extremely high endurance
- Dynamic Object Tracking



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