

“A Training from Idea to Product Design”

Department of Electrical Engineering at FAST-NUCES ISB offers an MS program with expertise in Integrated Circuits and Systems .Pioneer and most mature IC Design MS program in Pakistan, student will do the real-world tape out from project conception to the working silicon microchip.

WHY INTEGRATED CIRCUITS (ICs) DESIGN ?

- High demand for skilled IC designers in global 500 Billion \$ industry
- Recent IC design center established in the Public Sector Organizations.
- More than **six** IC startups in Pakistan over the last two years.

WHY from FAST NUCES ?

- FULL Tuition Fee Waiver & 25000 per month stipend and hostel allowance sponsored by GS Micro Electronics (GSME), a Silicon Valley Company.**
(<https://gsme.com>)
- GSME intent to hire** all graduates after completion of first two semester of course work.
- First and most established MS IC design program in Pakistan with international recognition and having licensed Cadence tools suite (worth: US\$ 35000/-) and **28nm, 65nm, and 130nm TSMC PDKS.**

Feedback from Alumni and Industry

- The courses were specifically designed to provide the students with a strong knowledge of electronics and IC design skills. **(Dr. Nasir, Sr Director, NECOP)**
- This program is perfect for Engineers seeking in-depth training from concept to tape-out in analog and digital IC design. **(Aziz ur Rehman GM, NECOP)**
- One thing I must say! After working with the faculty, if you put your whole effort too, you will be a practical Chip designer. **(Hamza Saleem, MS IC)**
- The program offered me a variety of skills including design, plan, management, economy, and art of designing practical Integrated circuits, **(M Usman, MS IC)**

Teaching and Technical Staff

Prof. Dr. Rashad Ramzan
M.S. Royal Institute of Technology
Stockholm, Germany
Ph.D. Linkoping University, Sweden
Professor at Department of
Electrical Engineering
FAST, NUCES, ISB.

Dr. Hassan Saif
M.S. & Ph.D. Sungkyunkwan
University, South Korea.
Asst. Professor at
Department of Electrical
Engineering
FAST, NUCES, ISB.

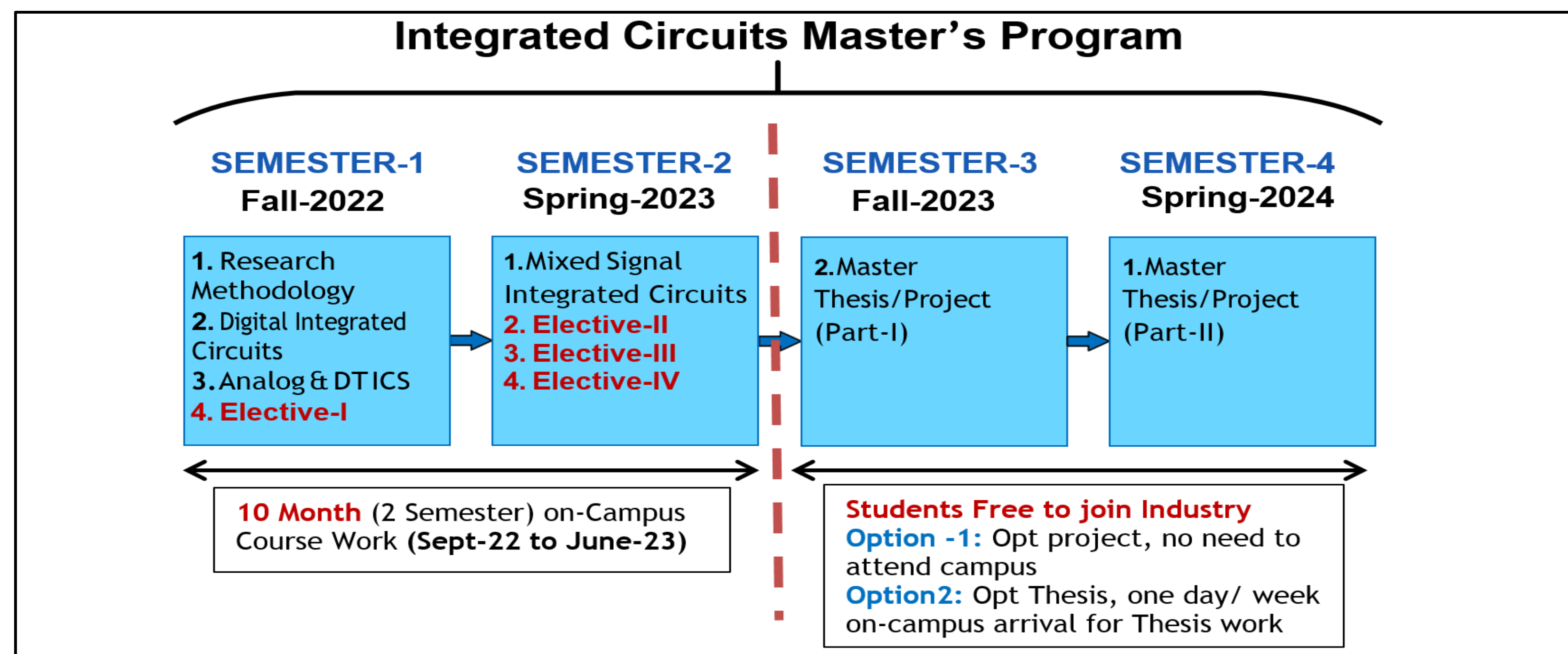
Engr. Hamza Atiq
MS (IC Design),
Design Engineer
FAST, NUCES, ISB.

Engr. Ali Sabir
Lab Engineer
FAST, NUCES, ISB.

PROGRAM DETAILS

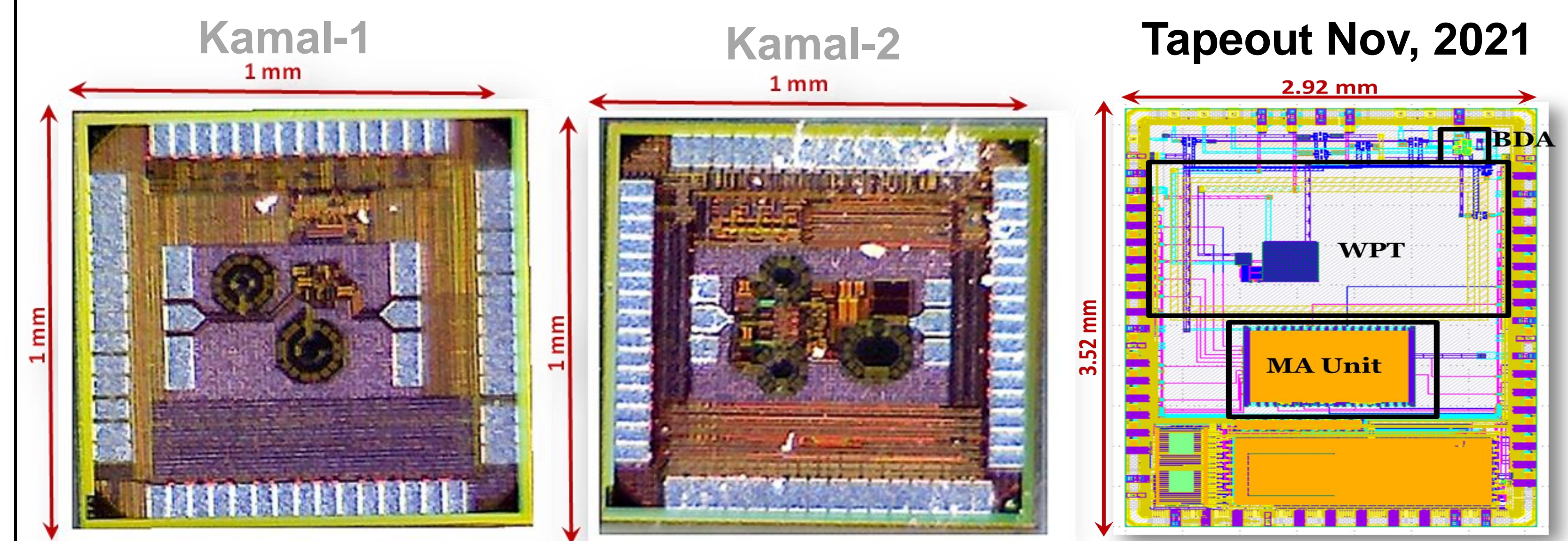
- For more details about MS IC design and our research group please visit <http://isb.nu.edu.pk/rfcs2/>
Info: hassan.saif@nu.edu.pk ; Hamza.atiq@nu.edu.pk

PROGRAM AND COURSES OUTLINE



12 Tapeout Projects (Session-2021)

LNA, Approximate ALU, Phase Shifter, Turboelectric Energy Harvester and more TSMC 65nm Tapeouts Sept,2021



ELIGIBILTY

- Bachelor from PEC recognized University in: **(Min CGPA=2.0)**
 - Electrical Engineering
 - Electronics Engineering
 - Telecommunication Engineering
 - Computer Engineering

Scholarships Criteria

- Selection Procedure**
Step1: NUCES MS EE Admission Test GAT or GRE.
Step2: NUCES, Islamabad IC Design Lab Test/Interview

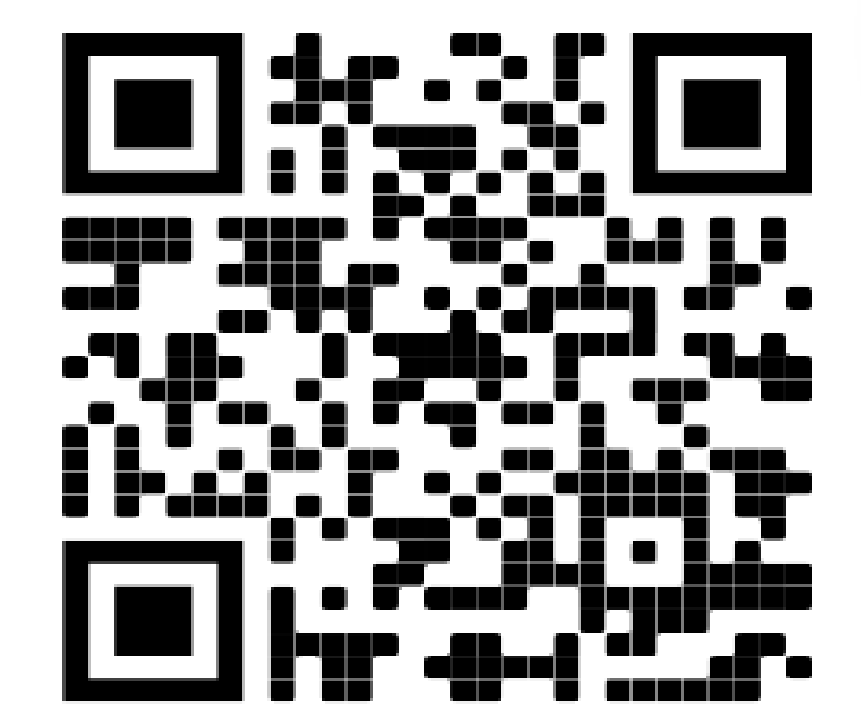
HOW TO APPLY

- Apply Online at <http://admissions.nu.edu.pk/>

Application Deadline: 24th July 2022

Sponsored By

GS MICROELECTRONICS



SCAN ME