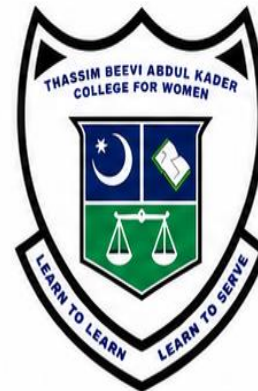




Transforming Campuses into Startup Hubs



DR S Sumaya
Principal

Thassim Beevi Abdul Kader College for Women
Kilakarai



IDEATE



INNOVATE



INCUBATE



IMPACT

Building Ideas • Nurturing Innovation • Creating Impact



1

WHY CAMPUS STARTUP HUBS?

Thassim Beevi Abdul Kader
College for Women
Kilakarai



Foster **Innovation & Creativity**



Solve **Real-World Problems**



Create **Jobs & Opportunities**



Strengthen **Industry Connect**



Drive **Economic & Social Impact**

“

Ideas today.
Impact tomorrow.



2 VISION

To build a vibrant innovation ecosystem that nurtures ideas, empowers talent and creates sustainable solutions for society and industry.

“INSPIRE IDEAS.
INNOVATE SOLUTIONS.
IMPACT THE WORLD.”



EVERY STUDENT AN INNOVATOR

Empowering curious minds to ideate, explore and create impact.



RESEARCH TO STARTUP PIPELINE

Transforming research and ideas into real-world solutions and successful startups.



SUSTAINABLE AND INCLUSIVE ENTREPRENEURSHIP

Building ventures that are sustainable, ethical and inclusive for a better tomorrow.

RESEARCH TO STARTUP PIPELINE



DISCOVER

Identify Problems
& Opportunities



RESEARCH

Generate Knowledge
& Insights



IDEATE

Create & Validate
Ideas



DEVELOP

Prototype & Refine
Solutions



LAUNCH

Startup & Scale
Impact



SUSTAIN

Grow Sustainably
& Create Value

OUR COMMITMENT



Sustainable
Solutions for a
Better Planet



Inclusive
Opportunities
for All



Ethical
Entrepreneurship
& Responsibility



Community
Impact & Social
Good



Building a Better
Tomorrow,
Together

INNOVATION ECOSYSTEM IN HIGHER EDUCATION INSTITUTIONS

3

Inspire • Innovate • Collaborate • Impact

Creating a dynamic ecosystem that nurtures ideas, empowers talent and transforms knowledge into meaningful solutions



IDEATE

Identify problems & opportunities



INNOVATE

Convert ideas into innovative solutions



INCUBATE

Support startups & new ventures



COLLABORATE

Partner with industry, government & society



IMPACT

Create social, economic & environmental impact

BENEFITS



ENHANCED LEARNING

Experiential & interdisciplinary education



EMPOWERED STUDENTS

Skills, creativity & leadership



RESEARCH EXCELLENCE

High impact research & innovations



STRONGER PARTNERSHIPS

Collaborative solutions for real-world challenges



SOCIETAL IMPACT

Sustainable development & inclusive growth

TOGETHER WE BUILD TOMORROW'S SOLUTIONS TODAY

CAMPUS INNOVATION ECOSYSTEM

A collaborative ecosystem that nurtures ideas, empowers talent, and transforms innovations into real-world impact.

“ Empowering Ideas.
Enabling Innovation.
Creating Impact. ”



KEY ENABLERS



Faculty
Mentorship



Research
Facilities



Industry
Collaboration



Funding
& Support



Incubation
Centre



Student Innovation
Clubs & Communities

EXPECTED OUTCOMES



Student Innovators
& Entrepreneurs



Market-Ready
Solutions



Research
Commercialization



Startups &
Employment



Social & Economic
Impact

5

INNOVATION SPACES

Spaces that Inspire. Ideas that Grow.

Enabling creativity, collaboration and experimentation for the innovators of tomorrow.

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Kilakarai



IDEA
BUILD
LAUNCH



MAKER SPACE

Build. Create. Innovate.



3D Printers, Electronics & Robotics



Fabrication Tools & Equipment



Hands-on Prototyping



Build Solutions. Bring Ideas to Life.



BIOINNOVATION LAB

Innovate for Life.



Molecular Biology & Microbiology



Biotechnology Research Facilities



Experiment. Discover. Innovate.



Solving Real-World Bio Challenges.



DIGITAL STUDIO

Design. Code. Create.



Coding & App Development



UI/UX Design & Animation



AI, Data Science & IoT



Design Digital Solutions. Shape Tomorrow.



CO-WORKING SPACE

Collaborate. Connect. Grow.



Flexible Workspaces



Networking & Community



Collaboration & Brainstorming



Connect. Collaborate. Co-create.



Empowering Innovators with Spaces that Spark Creativity and Drive Impact.



6

INTERACTIVE LEARNING

Learn by Doing. Innovate by Collaborating.



Experiential activities that engage, inspire and empower student innovators.



HACKATHONS

- Solve real-world problems in teams
- Build innovative solutions
- Learn, code, create and collaborate



STARTUP WEEKENDS

- From idea to prototype in 54 hours
- Validate, build and iterate
- Network, learn and pitch



DESIGN THINKING WORKSHOPS

- Empathize, Define, Ideate, Prototype, Test
- User-centered problem solving
- Drive innovation through creativity



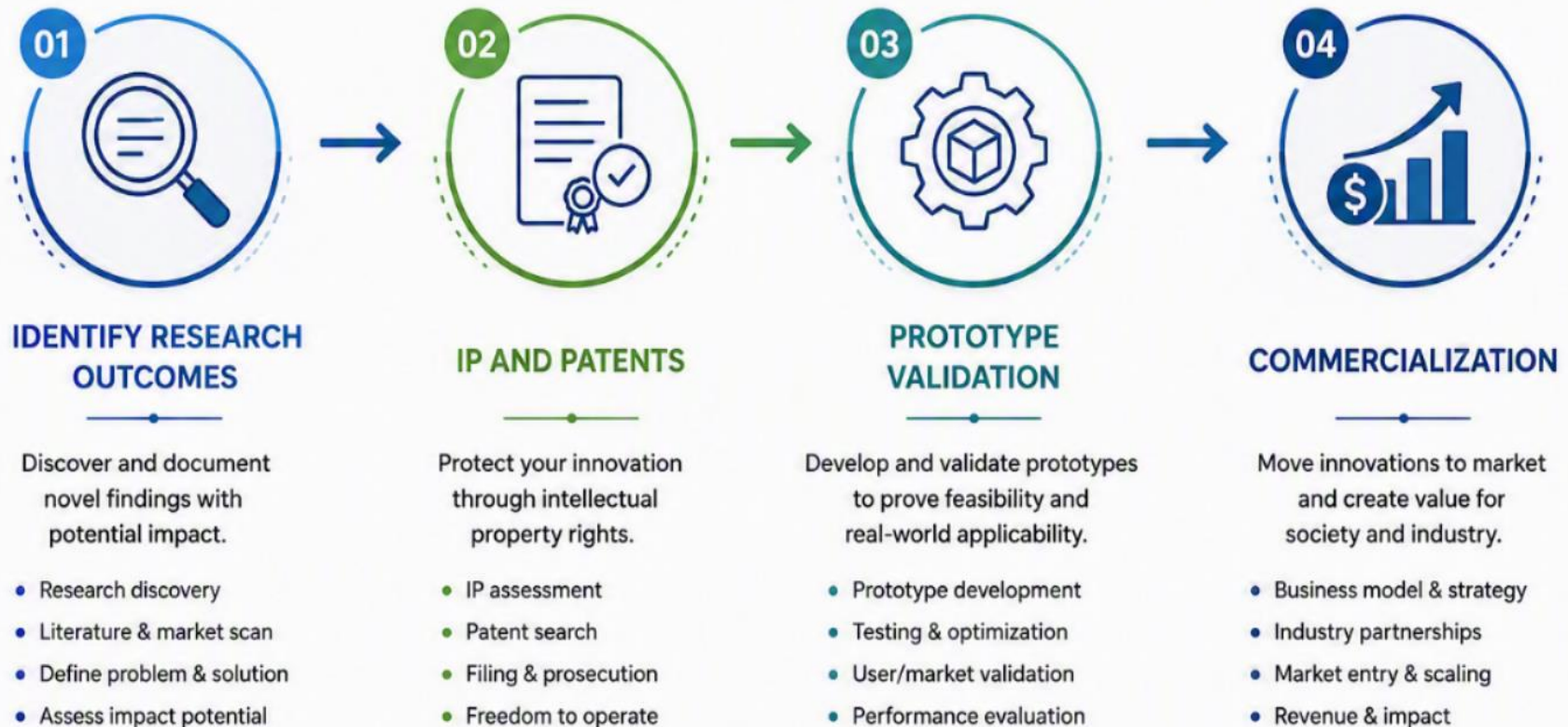
PITCH COMPETITIONS

- Present your ideas to expert judges
- Get feedback and recognition
- Win opportunities and support



Engage. Experiment. Excel. Together, we build the future.





RESEARCH TODAY. INNOVATION TOMORROW. IMPACT FOREVER.

A continuous cycle of discovery, protection, validation and value creation.



“ Faculty empower students to think, innovate and create impact. ”



MENTOR INNOVATORS

- Inspire and encourage creativity and critical thinking
- Nurture ideas into impactful innovations
- Provide guidance and constructive feedback
- Build confidence and leadership in students



GUIDE RESEARCH

- Help refine research questions and objectives
- Ensure scientific rigor and ethical conduct
- Support data analysis and interpretation
- Promote quality publications and knowledge creation



CONNECT INDUSTRY

- Bridge academia and industry for collaboration
- Facilitate internships, industry visits and projects
- Enable technology transfer and real-world applications
- Build networks for long-term partnerships



SUPPORT FUNDING PROPOSALS

- Identify funding opportunities and schemes
- Guide in proposal writing and budgeting
- Strengthen grant competitiveness and compliance
- Drive impactful research through sustainable funding



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STUDENT INNOVATION JOURNEY

Dream. Develop. Deliver.

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College for Women
Kilakarai



1. PROBLEM IDENTIFICATION



2. IDEA VALIDATION



3. PROTOTYPE



4. BUSINESS MODEL



5. STARTUP



Identify real-world problems and user needs.



Refine the idea and validate with users and experts.



Build a working model and test for functionality and feasibility.



Define value proposition, revenue model, target market and strategy.



Launch the startup, create impact and scale your solution.



Innovate Today. Impact Tomorrow.

Turning Student Ideas into Real-World Solutions.



10

FUNDING OPPORTUNITIES

Fueling Ideas. Enabling Impact.

WHERE IDEAS FIND SUPPORT



Financial Support

Access grants, funds and investments at every stage.



Mentorship & Network

Connect with experts, entrepreneurs and industry leaders.



Growth & Impact

Transform innovative ideas into sustainable solutions.



GOVERNMENT SCHEMES



BIRAC (Biotechnology Industry Research Assistance Council)

- BIG (Biotechnology Ignition Grant): Up to ₹50 Lakhs for early-stage biotech ideas.
- SBIRI (Social Innovation): Up to ₹50 Lakhs for innovative solutions addressing social challenges.
- SEED Fund: Up to ₹2 Crores for startups in biotech & life sciences.
- LEAP (Innovation & Entrepreneurship Development): Support for innovation pipeline.



Startup India Scheme

- Recognition & Certification for startups.
- Tax Benefits: 100% income tax exemption on profits for 3 consecutive years.
- Fund of Funds: Access to corpus of ₹10,000 Crore through SIDBI.
- Easy compliance, IPR fast tracking & self-certification.



Idea Hackathon / Innovation Challenges

- Participate in national & state level hackathons.
- Win seed funding, incubation, mentorship and pilot opportunities.
- Platforms: Smart India Hackathon (SIH), AICTE InnovaFest, Hack2Skill, etc.



Other Government Initiatives

- Atal Innovation Mission (AIM): Atal Incubation Centres (AIC), Atal Tinkering Labs (ATL).
- MSME Support: Credit Guarantee, Subsidies & Technology Upgradation.
- State Innovation Policies & Startup Policies: Financial incentives & infrastructure.

DBT (Department of Biotechnology)



Department of Biotechnology
Ministry of Science & Technology
Government of India

- Biotech Ignition Grant (BIG)
- Biotechnology Career Advancement & Reorientation Programme (BioCARE)
- Support for Entrepreneurial & Managerial Development of Biotech Startups
- Infrastructure & Capacity Building Support
- Grant-in-Aid for R&D Projects



DST (Department of Science & Technology)



Department of Science & Technology
Government of India

- Technology Development Programme (TDP)
- Innovation in Science Pursuit for Inspired Research (INSPIRE)
- DST Nidhi (Seed Support to Startups)
- Fund for Improvement of S&T Infrastructure (FIST)
- SERB Grants for Early Career Researchers



ANGEL INVESTORS



- Early-stage funding for innovative ideas.
- Provide mentorship, industry connections and strategic guidance.
- Look for scalable, high-impact solutions.



CSR FUNDS



- Corporate Social Responsibility (CSR) funds for social impact innovations.
- Focus areas: Education, Health, Environment, Livelihood, Rural Development, etc.



INCUBATOR & ACCELERATOR GRANTS



- Access grants, seed funds and stipends from incubators.
- Benefits include workspace, mentorship, technical support, and investor connects.
- Leading Programs: NIDHI-EIR, AIC Grants, TBI Support, Villgro, CIIE.CO, etc.



FUND TODAY. INNOVATE TOMORROW. IMPACT FOREVER.

Explore. Apply. Grow.

Multiple avenues. One goal – A better future!



Connect to Progress. Collaborate to Create.



INNOVATE & DISCOVER

Co-create solutions for real-world problems through industry insights.



CO-DEVELOP & INNOVATE

Joint research, product development and pilot projects for shared success.



FOSTER & INCUBATE

Support startups and ideas through mentorship, incubation and funding.



CONNECT & GROW TOGETHER

Build networks, create opportunities and drive impact together.



INTERNSHIPS

- Real-world exposure for students
- Industry-oriented skill development
- Pre-placement opportunities



JOINT PROJECTS

- Collaborative R&D initiatives
- Solve industry challenges
- Access to expertise and resources



TECHNOLOGY TRANSFER

- Transform research into real solutions
- Licensing and commercialization
- Drive innovation to market



STARTUP MENTORING

- Expert mentorship and guidance
- Business model refinement
- Funding and growth support



INNOVATE – VALIDATE – INCUBATE – IMPACT

Stronger Partnerships. Greater Innovation. Lasting Impact.



12

WOMEN INNOVATORS

Empower. Encourage. Elevate.



Inclusive Opportunities



Mentoring & Role Models



Women-led Startups



Leadership & Confidence



Supportive Ecosystem



LEADERSHIP PROGRAMS

- Leadership workshops and training
- Skill development and capacity building
- Networking with leaders and experts
- Confidence building & personal growth
- Pathways to decision-making roles



WOMEN ENTREPRENEUR CELLS

- Dedicated cells to support women entrepreneurs
- Awareness programs & expert sessions
- Access to resources and networks
- Community of women innovators
- Recognition and celebration of women-led initiatives



INCLUSIVE INCUBATION SUPPORT

- Gender-inclusive incubation programs
- Seed funding and financial support
- Mentorship from domain experts
- Legal, IPR and business support
- Safe, flexible and empowering innovation spaces



When Women Innovate, Communities Transform.

Supporting Her Ideas. Building Our Future.



13

DIGITAL & DATA-DRIVEN INNOVATION

Technology today. Solutions for tomorrow.



“Leverage digital technologies and data to solve problems, create value and drive change.”



1

AI FOR INNOVATION



- Use AI/ML to solve real-world problems
- Build intelligent models and predictive solutions
- Automate, optimize and innovate
- Applications in healthcare, agriculture, education and more



2

DATA ANALYTICS

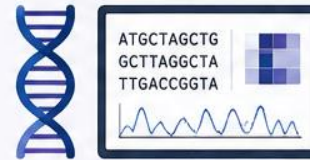


- Collect, clean and analyze data
- Extract insights and make data-driven decisions
- Dashboarding and visualization
- Tools: Excel, Power BI, Tableau, Python, R



3

BIOINFORMATICS



- Analyze biological data using computational tools
- Genomics, proteomics, transcriptomics and systems biology
- Drug discovery, protein modeling and molecular simulations
- Tools: BLAST, R, Biopython, PyMOL, Galaxy, NCBI



4

DIGITAL MARKETING



- Build brand presence and awareness
- Leverage social media and digital platforms
- Content creation, SEO, SEM, email marketing and analytics
- Turn ideas into visibility and impact



LEARN. APPLY. INNOVATE.

From Data to Discovery. From Ideas to Impact.



14 SUSTAINABLE STARTUP THEMES

Innovate for a Better Tomorrow.



CLEAN ENERGY

Innovations in renewable energy, energy storage, smart grids and energy efficiency.



CLIMATE MANAGEMENT

Solutions for climate adaptation, resilience, and carbon footprint reduction.



WASTE TO WEALTH

Transforming waste into valuable resources and circular economy models.



SUSTAINABLE LIVING

Eco-friendly products, green buildings, sustainable agriculture and water conservation.



HEALTH & WELL-BEING

Innovations for preventive healthcare, nutrition, mental well-being and healthy communities.



ALIGNING WITH UN SDG GOALS



Sustainable startups create economic value while protecting the planet and improving lives.

THRUST AREAS ACROSS DIFFERENT FIELDS

AGRICULTURE & FOOD



- Precision farming & Agri-tech
- Organic & regenerative agriculture
- Sustainable food systems
- Reducing food loss & waste
- Alternative proteins & plant-based foods



ENERGY & ENVIRONMENT



- Renewable energy solutions
- Energy storage & smart grids
- Carbon capture & utilization
- Green hydrogen
- Efficient use of resources



HEALTHCARE & WELLNESS



- Telemedicine & digital health
- Affordable healthcare solutions
- Nutrition & personalized wellness
- Mental health & well-being
- Medical devices & diagnostics



SUSTAINABLE CITIES & MOBILITY



- Green buildings & smart infrastructure
- Sustainable transportation
- Waste & water management
- Air quality monitoring
- Urban resilience solutions



MANUFACTURING & INDUSTRY



- Green manufacturing processes
- Resource efficiency
- Circular economy & recycling
- Eco-friendly materials
- Industrial symbiosis



EDUCATION & SOCIAL IMPACT



- Edtech for inclusive learning
- Skill development & livelihoods
- Community development
- Financial inclusion
- Gender equality & empowerment



CROSS-CUTTING ENABLERS



INNOVATION & TECHNOLOGY

AI, IoT, Blockchain, Biotechnology, Robotics & Advanced Materials



POLICY & GOVERNANCE

Supportive policies, standards, incentives and regulations



PARTNERSHIPS & COLLABORATION

Industry, academia, government and community partnerships



FUNDING & INVESTMENT

Impact investing, green finance, grants and CSR funding



THINK SUSTAINABLE. INNOVATE RESPONSIBLY. BUILD A BETTER TOMORROW.





15

INSTITUTIONAL ACTION PLAN

BUILDING AN INNOVATION ECOSYSTEM

Transforming Ideas into Impact | Building Startups for a Better Tomorrow

Thassim Beevi Abdul Kader
College for Women
Kilakarai



VISION

Create an innovation-driven campus that promotes research, entrepreneurship, patents, startups and societal impact.

STRATEGIC ACTIONS

	Establish Innovation & Entrepreneurship Cell	→	Coordinated innovation ecosystem
	Create Innovation Labs & Maker Space	→	Hands-on learning & prototyping
	Conduct Hackathons & Workshops	→	Idea generation & problem solving
	Faculty Mentoring	→	Guidance & support for student innovators
	Innovation & Startup Courses	→	Entrepreneurial mindset
	Research Funding & Seed Grants	→	Research-to-innovation pipeline
	Patent & Technology Transfer Support	→	IP protection & commercialization
	Incubation & Industry Partnerships	→	Startup development & employability

5-YEAR ACTION ROADMAP

YEAR 1 FOUNDATION



- Innovation Cell
- Innovation Policy
- Awareness Programmes

YEAR 2 CAPACITY BUILDING



- Innovation Labs
- Workshops & Hackathons
- Student Innovation Projects

YEAR 3 RESEARCH & IP



- Research Mentoring
- Patents & Publications
- Prototype Development

YEAR 4 INCUBATION



- Startup Support
- Industry & Investor Linkages
- Pre-incubation Programmes

YEAR 5 SCALE & IMPACT



- Commercialization
- National & Global Collaboration
- SDG-focused Innovation

INNOVATION JOURNEY



KEY PERFORMANCE INDICATORS (KPIs)



ENABLERS

- Policy & Governance Support
- Infrastructure & Digital Resources
- Mentoring & Capacity Building
- Industry Collaboration & Networking
- Recognition, Rewards & Sustainable Funding

EXPECTED IMPACT

- Innovation-driven campus culture
- High-quality research & patents
- Thriving startup ecosystem
- Strong industry collaboration
- Improved employability
- Sustainable societal impact

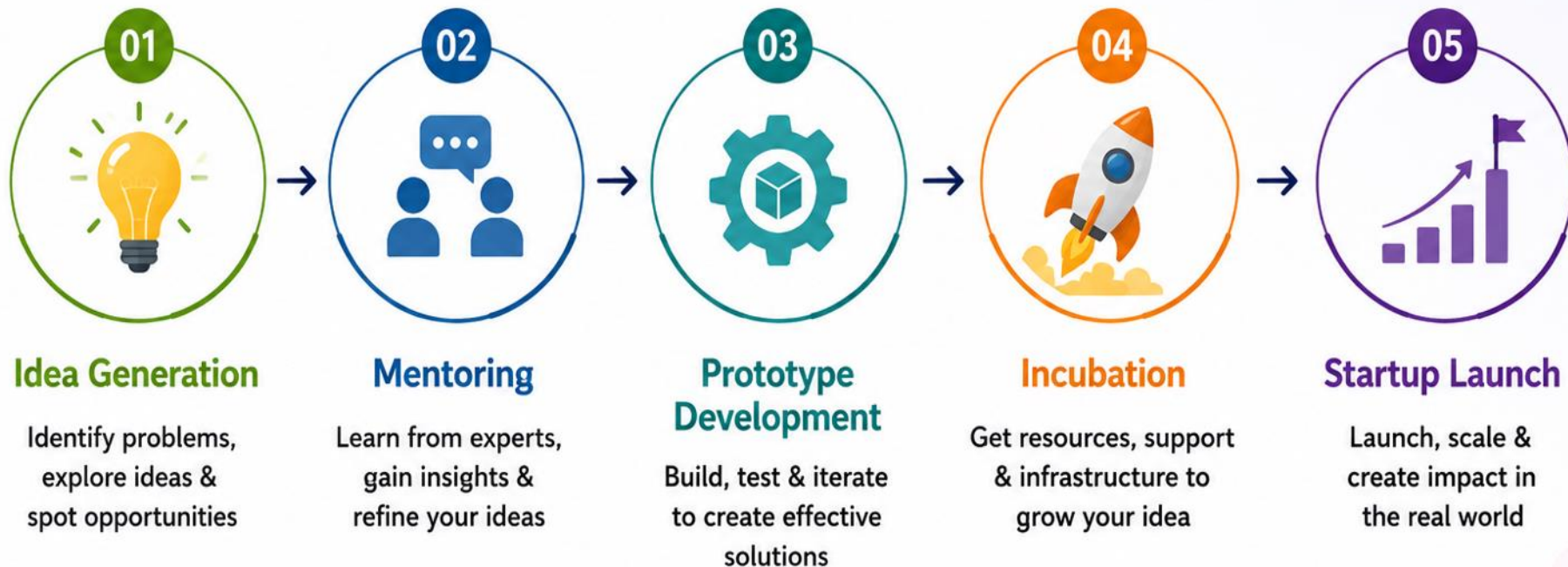


TOGETHER, LET'S BUILD AN INNOVATION-DRIVEN INSTITUTION
INSPIRE INNOVATION. NURTURE TALENT. CREATE IMPACT.





From Idea to Impact – Building the Next Generation of Startups



Innovate. Collaborate. Create Impact.



17

SUCCESS METRICS

Measure. Improve. Impact.



Ideas Generated

Innovative ideas that solve real-world problems

350+
Ideas



Patents Filed

Intellectual property created and protected

45+
Patents



Startups Incubated

Startups supported from ideation to launch

25+
Startups



Jobs Created

Employment opportunities generated

500+
Jobs



MEASURE TODAY. IMPROVE CONTINUOUSLY. CREATE LASTING IMPACT.



IDEATE



PROTECT



LAUNCH



EMPOWER



18

THANK YOU

Let us transform campuses into vibrant startup hubs and prepare the next generation of innovators.

Thassim Beevi Abdul Kader
College for Women
Kilakarai



INSPIRE
Ignite ideas



INNOVATE
Create solutions

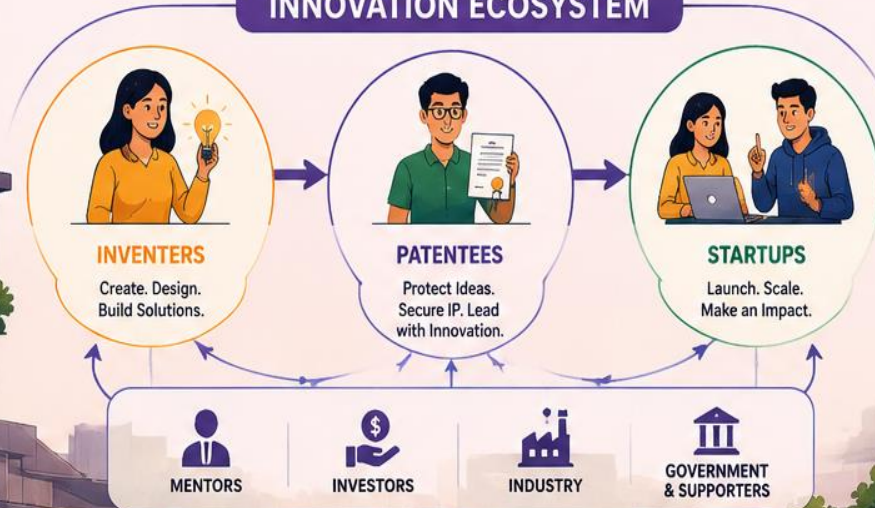


COLLABORATE
Build together



IMPACT
Create lasting change

INNOVATION ECOSYSTEM



- ✓ Stronger Innovation Pipeline
- ✓ IP Generation & Commercialization
- ✓ Job Creation & Entrepreneurship
- ✓ Sustainable & Scalable Impact
- ✓ Global Competitiveness



Together, let's build a future where every idea finds support, every innovator finds opportunity, and every campus becomes a launchpad for change.

- 🎓 Idea to Enterprise Support
- 👥 Incubation & Mentoring
- 🧪 Labs, Makerspaces & Prototyping
- 💰 Funding & Investment Connect
- 🌐 Industry & Global Partnerships

INNOVATION & INCUBATION CENTRE

FROM CAMPUS
TO IMPACT

MAKERSPACE

IDEATE
INNOVATE
INCUBATE
IMPACT

ONE CAMPUS. INFINITE IDEAS. LIMITLESS IMPACT.



INNOVATE TODAY. LEAD TOMORROW.