

GRADUATION 2017

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GRADUATION 2017



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“There is nothing such as good or bad design,
only appropriate design”

- Neville Brody -

GRADUATION 2017



Message from the Head of Department

Department of Integrated Design, University of Moratuwa is an inimitable and intelligent design scholar community in Sri Lanka offering firsthand education to cater the national and global creative economy. Incorporating a pragmatic and context responsive approach to its undergraduates, the academic programme of the department aims to produce a strong, pragmatic and empathetic set of design leaders through the development of attitude, skill and knowledge while promoting the integration of different fields of design.

The Design education in our Department focuses on developing compassions towards the context of design by reinterpreting the role of design through ideologies, value of concepts in intangible and tangible products of design.

Concocting to expose well prepared individuals to take leadership in the profession of design, the final year Comprehensive Design Project, is the most notable project in the students' design portfolio. It allows students to develop their individuality upon the strong foundation of design education.

Passing significant milestones during their phase of study, the Batch of 2012/2013 intake is now ready to enter the industry. This book, a compilation of their projects, encompasses a vast range of products, services and systems that address fundamentals concerns of design. It showcases the diversity of their creative pursuits. I am confident that this year's graduating batch will pay a significant role in enhancing Sri Lanka's design leadership.

My heartiest congratulations all the young professionals who have succeeded and wish all the best in their future endeavors.



Archt. Sithumini Rathnamalala
Head, Department of Integrated Design
Faculty of Architecture, University of Moratuwa.



The Bachelor of Design (Hons) Degree, Department of Integrated Design

The Department of Integrated Design of Faculty of Architecture, University of Moratuwa can be identified as the pioneer institute of design higher education in the country. The Department had been involved in developing the field of design for over a decade as a four-year full time Honours Degree; The Bachelor of Design. It had lead students through an innovative design education process and supports the problem solving practice in design application. The Degree programme response to the demand of diversification in higher education and provides an immense contribution to the National development through academia.

The mingling of creativity and functionality of the Degree course, attempts to create designers with an individual identity, which can enrich the Sri Lankan design context. Specializing in different streams of design, the course provides a great opportunity for the youth of the country to enter the global creative industry with knowledge in design and socio cultural consideration. Media and Communication Design, Fashion and Lifestyle Design and Product Design are the prevailing fields of specialization in the course.



Level IV

Level IV/the Final year of the Bachelor of Design Honours Degree Course to which the students hard work has brought in many ways can be considered as the threshold of their professional life.

During the first three years of the course, students were encouraged to find their own individual strengths and directions through a series of projects, which enabled the student to explore the relationship between theoretical, technical, innovative and practical approaches in design. The final year is also the last two semesters of specialization in following fields i.e., Fashion & Lifestyle Design, Media & Communication Design, and Product Design. Year Four is the culmination of four years of creative skills displayed in the Undergraduate Level Design Education focusing design synthesis and comprehension.

The study tasks of the students in this year are directed or oriented towards a variety of projects including the Dissertation and the Comprehensive Design Project. The significant role of the Designer at this stage is explored and expressed through problem-solving exercises involving consumers and needs at both community and national levels, where creativity and innovation become the generators of design energy, which enables the student to produce a Design in his/her own respective field of specialization with relevance to both Sri Lankan and global arena.



TEC SIGN

DATE

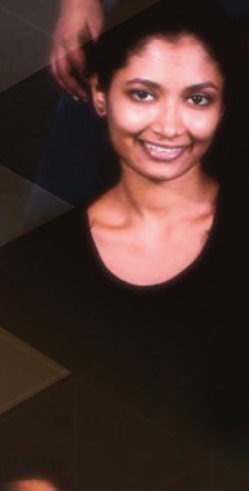
Comprehensive Design Project (CDP)

Comprehensive Design Project (CDP) is the most notable project in students' design portfolio. The CDP proceeds throughout the eighth semester. With freedom to select their own design project, each student carries out necessary research in his/her subject area, covering precedent studies, functional, analysis, client/user objectives addressing to an issue/ area or community through creative and strategic response. Guidance and supervision is provided by external and internal advisories to execute an initial idea to a comprehensive project. The final assessment of CDP is done by a panel of examiners consisting senior faculty members, foreign academics and eminent industrial professionals related to the specialization.

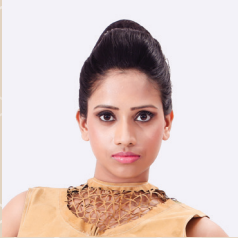
Fashion & Lifestyle

Fashion is an integral part of everyday life, with individuals making choices about what clothing and accessories to wear. Identity often shapes and is shaped by fashion choices. Choice of fashion is determined through the integration of two or more of the following – culture, history, function (occasion, employment or recreation requirements), economic considerations, personal taste, peer group, availability and trends. Fashion choices range from the purely practical to the highly aesthetic and esoteric.

'Fashion' is a highly creative industry in the global context. Many nations, including Sri Lanka, enjoy economic benefits for being a participant in the global fashion industry system. Hence, fashion and lifestyle design specialization (F&L) tries to expose the students to the key sub-disciplines of fashion such as, 'Apparel Design', 'Textile Design', 'Jewellery Design', 'Accessory Design', 'Costume Design' and 'Uniform Design'.



Anagi
Ariyaratne



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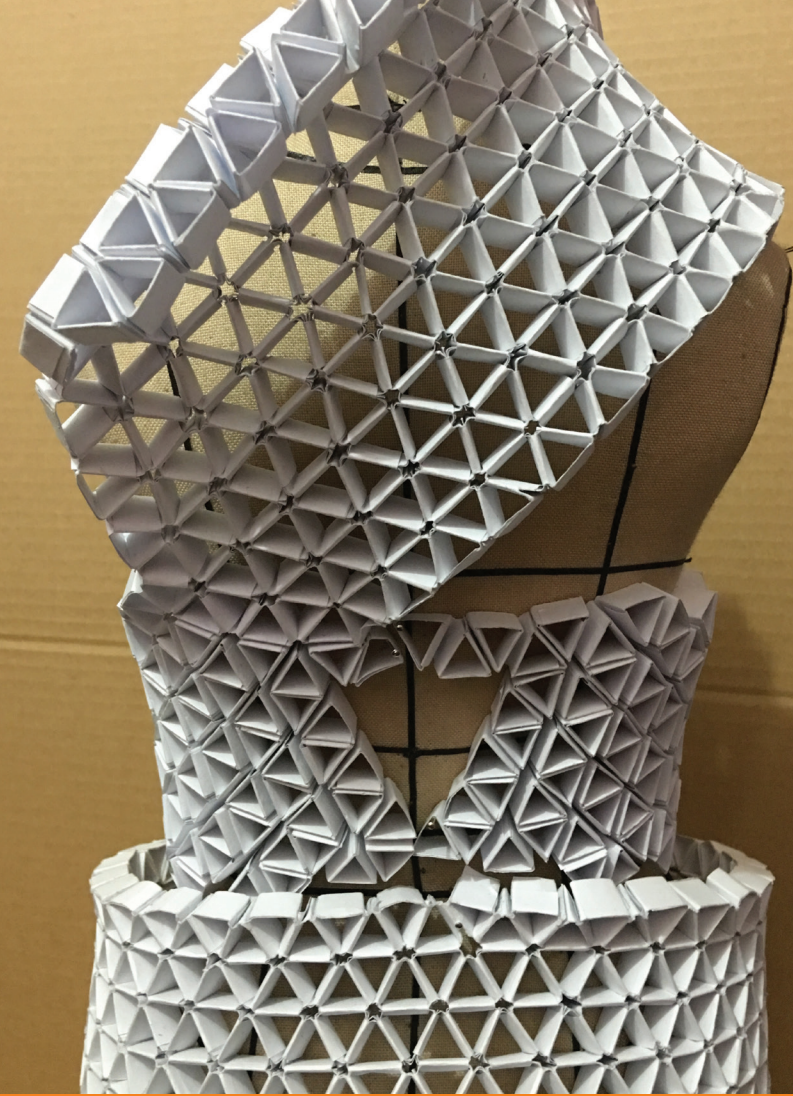
Architecture Inspired Experimental Project with Special Reference to Shigeru Ban's building structure patterns

The project is based on selected work of Architect Shigeru Ban, who is a master in exploring possibilities and interpreting the application of materials, textures, patterns and rhythms. This include the expression and ambiance.

Scope of the project -A covering for human figure by using geometric patterns, Material – Paper, Technique – Paper manipulation.

The project is an experimentation on the relationship between architecture and fashion, and will introduce new textiles and technologies to create new trends to the local market.





Anushika
Perera



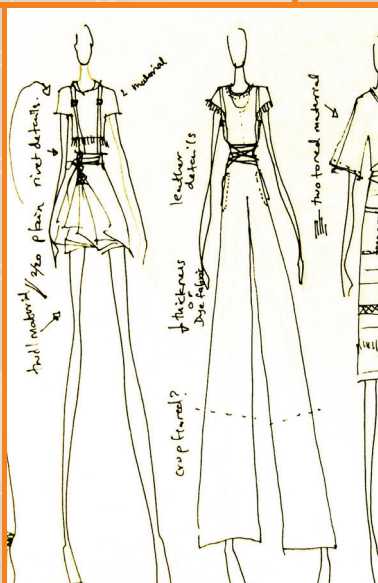
anushi55@yahoo.com

“Denim” Inspired Handloom Collection for Own brand (MOJO by Anushika Perera)

Initialized with thorough research on Denim culture and material, the projects’ outcome has shown potential in incorporating with the handloom industry where critical designer intervention is needed.

The handloom textile has been developed extracting the “Denim” look with an experimental stage while suiting the selected target groups’ lifestyle and needs.

The project hopes to create new trends in denim handloom weaving techniques and silhouette trends while promoting artisan made goods, in the Sri Lankan market - retail basis.





Buddhini
Ratnayake

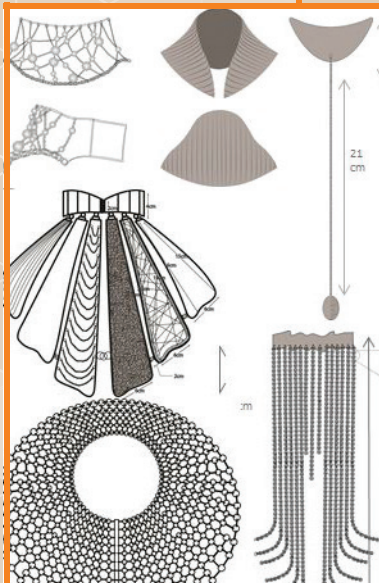


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Nape Jewellery: A Conceptual Collection

The main aim of this project is to adorn the female nape area through conceptual jewellery, to highlight “jewellery as a second skin”, for it to functions more or less in terms of flowing over contours; adhering to body form.

The scope was deliberately narrowed due to the fact that here las many nerve endings. Limitations are set with regard to the material aspect of the jewellery. Gold, silver and copper for the purpose of adorning the nape were selected, as they possess the elemental properties of value, ductile and coldness.





Subhani
Senarathna



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CREATING A DIALOGUE BETWEEN BODY AND DRESS USING LAYERS - A conceptual collection

A dialogue is created when the dependency of the dress on the body is greatly reduced, the body is released by the dress, and then the both body and the dress get active, hence both of them play roles independently and creates a dialogue between the body and the dress.

By creating a dialogue between body and dress, dress becomes a medium of expressing the quality of wearer , in this project based on feminine quality and that are used to materialized the feminine quality are curves of female body and the nature of body movements.

To archive above factors techniques of saree are taken as inspiration to create designs. Saree is a dress that comes from past which show the releasing of the body unconsciously. It is built with mainly layering along with some other techniques and those have a possibility to get active both the body and the dress is provided. And hence the feminine quality is well expressed.

Approach is achieved from layers of yarns and manipulated fabrics .Here the quality of interplaying between each layers and the ability and possibility of creating layers in different materials also has been considered.





Yashoda
Abeywardana

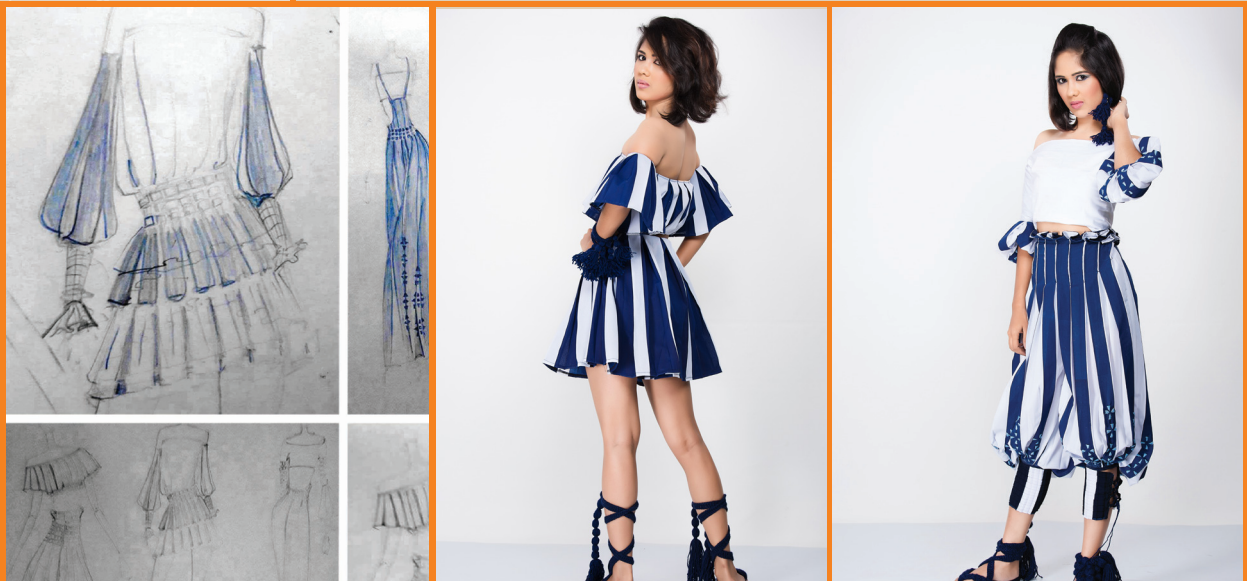


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Casual wear collection - Dynamic Teen

This is a casual wear collection for teen to achieve a dynamic look. It is achieved by using traditional dance costumes. The project shows how to make a dress, which can be actively playful with subtle body movements. With the application of the four findings; breaking forms, applying layers, placement of similar entity based on body movements, Continuity in between layers, movements and the dress, the collection was completed.

The key findings were applied through experimental pleating techniques. Therefore the main theme of the collection is "INTO THE PLEATS".





Geethika
Fernando



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'Aluth Avurudu' seasonal fashion collection

Sinhala and Hindu 'Aluth Avurudda' is a festive event rich in color and culture celebrated by all Sri Lankans. The *Avurudha* has values and celebrations that had evolved through time. With the start of the 'Aluth Avurudda', the concept of newness or novelty is established. As part of the 'Newness' Sri Lankans celebrating the New year tends to buy, wear and gift new clothes. Identifying this and merging the idea with current fashion in Sri Lanka, the task of this project was to implement a trend of festival season wear collection to the Sri Lankan fashion industry.





Hasini
Ratnayake



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Develop an occasional casual wear collection for post pregnancy period

We identify a lack of occasional casual wears in the local market, which fulfills the needs the post pregnancy period. Access for breast feeding, high generation of sweat, dissatisfied shaped body etc. were thought through this project. Concept of the project is Transfiguration, it communicates the change in appearance of post pregnancy body especially in a way that makes the new mum satisfied.

The dress collection for post pregnant women's is designed under the following scope; to fulfill physical, psychological and social condition of target group while keeping both comfortable and stylish qualities, Design a dress comfortable for both mother and baby, Dress support for the decently access for Breast feeding, Hide figure irregularities, Colours suitable for psychological state of mother and baby, Absorbance fabrics for over s weating.





Nipuni
Silva



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gmail.com

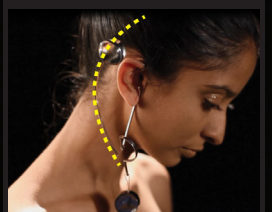
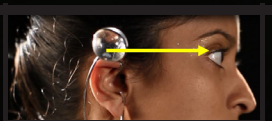
Body adornments to explore and utilize the concept – Composition of Motions.

“Just as one can compose colors or forms, so one can compose motions” – Alexander Calder.

This project attempted to compose the motions of the body and the motions of the adornments to create a predetermined effect. Through a series of experiments, the final products have been developed in order to exhibit three effects:

1. Amplification of subtle movements of the wearers body
2. Manipulation of the path of eye movement of the viewer
3. Manipulation of the range and nature of the body movements of the wearer.





Poorni
Wijesinghe



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Designing a Collection of Conceptual Wearables, to introduce Sri Lankan Hand Spun Banana Yarn to the Global Fashion Industry

This project aims to introduce this hand-spun banana fiber yarn into the global fashion market. The current trends of sustainable fashion markets are also met by this project, by doing the whole process manually: manual fiber extraction, manual yarn creation, to hand-woven techniques. The hand-woven and handloom-woven fabrics are chosen for the optimum utilization of local properties.

The flexibility and wearability of the fabric is supported by linen or organic cotton as the warp while handloom weaving. The quantitative logic theory is considered during pattern making, and the entire collection has been created considering its wearability.





BY PLANT
CRAFTED IN SRI LANKA



TRENDY

Sandaruwani
Thambugala



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A submission for the 2017 hand & lock embroidery prize- Designing a wearable with celebrating play and delicacy

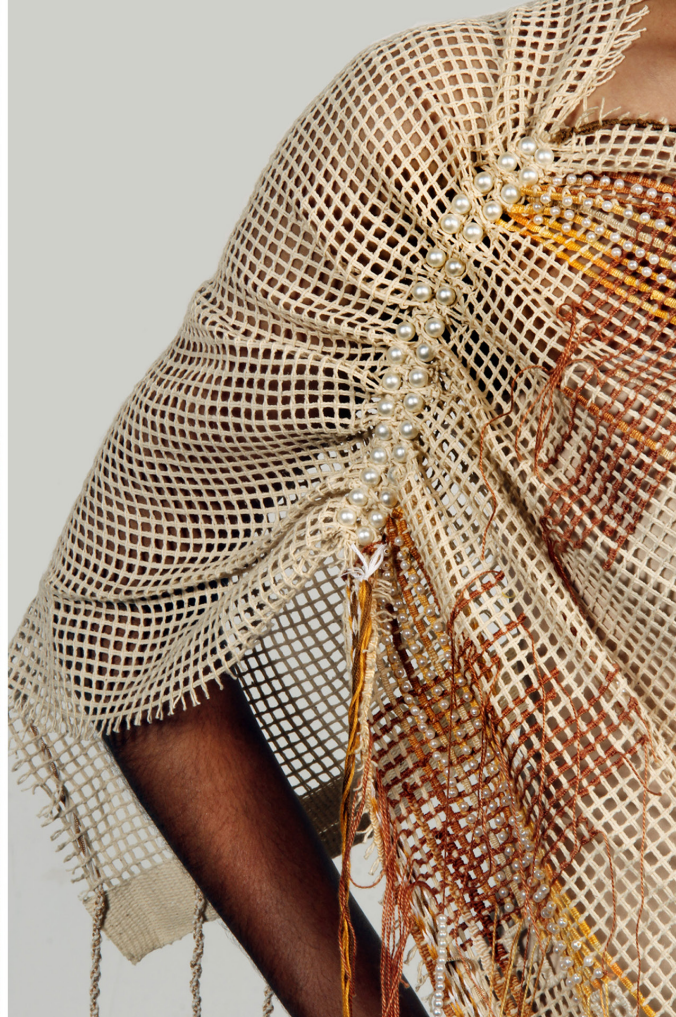
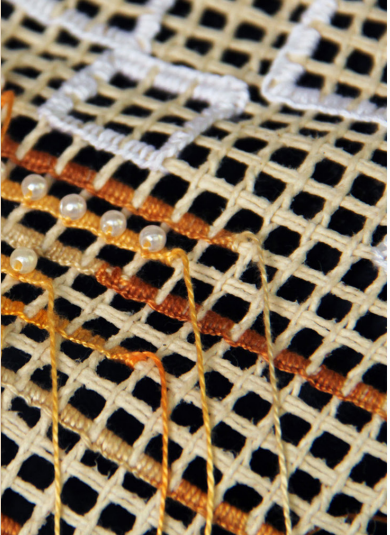
Concept
"Celebrating Play and Delicateness"

The delicateness and play in beeralu are the key notes that has been highlighted in the project and is being celebrated. After close analysis on hand lace, these key factors are highlighted while the essence of traditional handlace and its rich history is displayed through the attire.

The outcome of this project is to display the celebration of hand lace in Sri Lanka through a modern approach in embroidery for the Hand and Lock competition 2017.

The traditional craft is taken in an innovative and forward thinking path showing the essence of its process, heritage and unique qualities.





Sasinda
Thathsarani



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Sportswear collection for the team of Sri Lankan Sprinters (South Asian Games 2018)

Since the athlete's performance or the comfort was not taken into consideration during the past, Sri Lankan athletes need to be empowered with suitable modern sportswear to meet the new trends and to enhance their performance.

Aim of this project was, to design sportswear with esthetical values and technical advancements, to empower the Sri Lankan Athletes and also to make them feel as champions; with pride and confidence. Using compressing theories, these garments helps to increase the performance and reduce the injuries and also helps to increase the recovery speed through maintenance of optimum blood circulation





Vathsala
Gunasekara



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Fashion Design involvement to uplift the craft of Dumbara textile weaving while conserving traditional, beautiful, sensitive creativity of the inherited ancient skill.

Project is an effort to uplift this craft through a fashion design involvement while safeguarding the essence of the craft.

This project uses the maximum integrity of hand woven fabric weaving, through On-loom created patterns to dress the human body. Female body measurements are used in a novel way in the pattern creation process with zero pattern cutting which is the core uniqueness of the project along with the effective use of the craft possibilities.

Concept: Sensation of Minimalistic Integrity

Bringing out the integrity of the Dumbara hand woven heritage with emphasis on fabric structure using simple elements conserving traditional, beautiful, sensitive creativity of the inherited skill through clean lines, simple shapes, and a new level of quality and originality.





Media and Communication

On an average day a human being receives more than five thousand messages from various mediums. With the expansion of media and growth of human needs, this number increases constantly. To standardize the elements used, to make the message effective and to identify the uniqueness and values of cultures in communication activities, a communication designer is getting broadened. To sustain in the creative, communication world, tomorrow's designers should be disciplined with various avenues of knowledge in communication design.

Hence, Media and Communication design specialization (MECO) tries to expose the students to the key sub – disciplines of Communication Design. The main focus areas of this specialization is focused towards theory of communication, Print media communication and packaging, Brand communication, Moving image communication and User interface design.



Ama
Rajapaksha



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gmail.com

wareness to registering as organ or tissue donors

‘Save them’ is a project to raise awareness to registering as organ or tissue donors. The selected target audience is young adult within the age of 21-30. The strategy is planned by identifying the insight of this target audience, the younger generation who has strong opinions about things. The campaign was planned using posters, pill board, o line registration, viral animation clips etc.



LOGO

Save
Them
BE A DONOR



save them IS A DONOR

Organs are replaceable.
Save organs to save someone.



Get Registered
Be an organ and tissue donor

0000 www.savethem.com

Many people need vital organs and tissues to survive. And many people are willing to help. We need your help. Register today. It's quick, easy and it could save a life.

save them IS A DONOR

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save them IS A DONOR

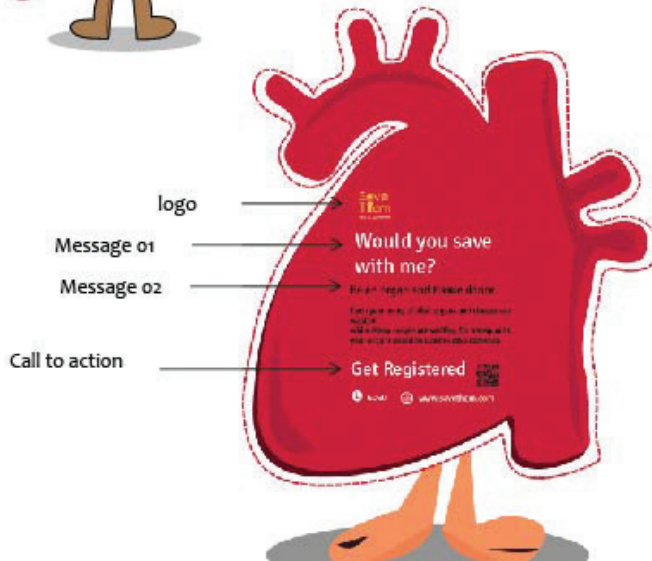
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Get Registered
Be an organ and tissue donor

0000 www.savethem.com

Many people need vital organs and tissues to survive. And many people are willing to help. We need your help. Register today. It's quick, easy and it could save a life.



Denuwan
Udahawatta

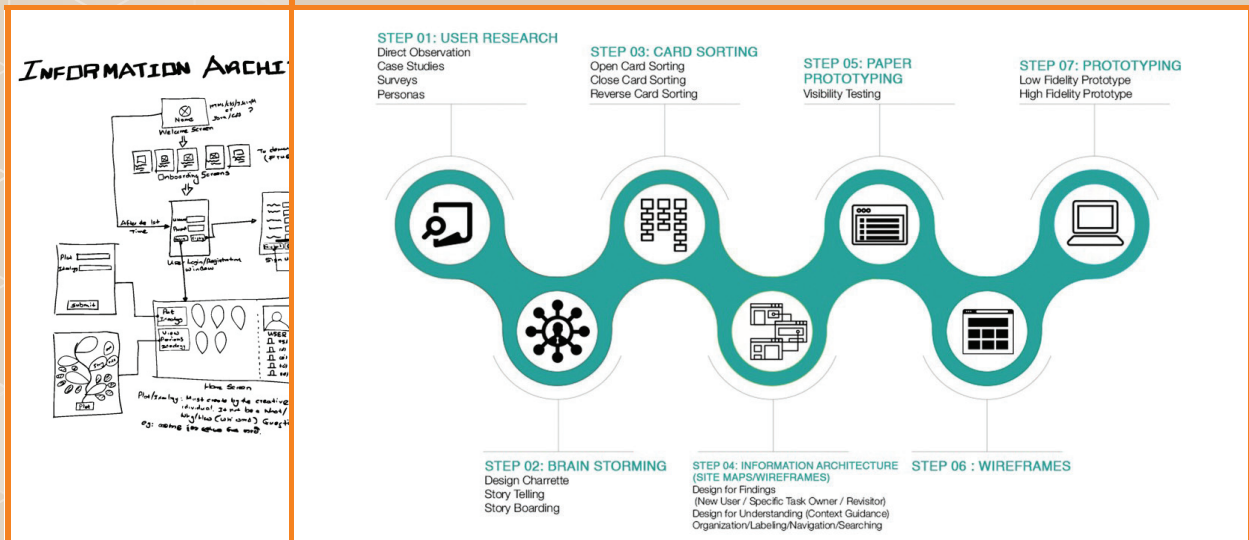


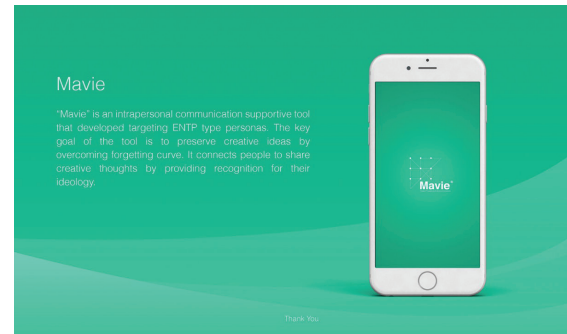
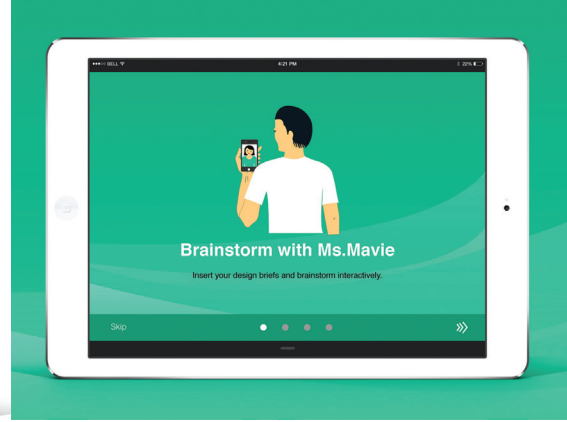
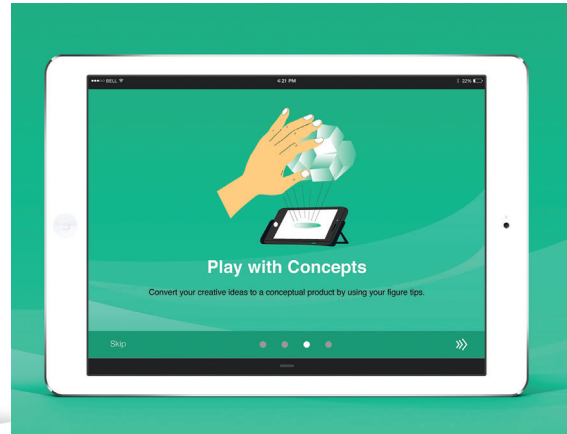
denuwanudah
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Intrapersonal Communication Supportive Tool

Conceptual User Experience Design Project

“Mavie” is an online intrapersonal communication supportive tool that is developed by targeting ENTP type personas. The ENTP express the Extraversion, iNtuition, Thinking and Perceiving characteristics of the people according to the Carl Jung’s and Isabel Briggs Myers’ personality type theory. The key goal of the tool is to preserve creative ideas by overcome forgetting curve. It connects people to share creative thoughts by providing recognition for their ideology.





Harindra
Attanayaka



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Dog Adoption Awareness campaign for Animal SOS Sri Lanka

Stray dog problem is one of the most common problems in Sri Lanka. The client, Animal SOS Sri Lanka is an organization that looks after the welfare of street animals. But most of the people don't know about this place. This BLT campaign is designed to aware people about the dog adaptation from it. Target audience is old citizens aging 60 – 75, who live alone and among urbanism.

Consider a new beat to your life by adopting a dog, the big idea was finalized as "life beat". Selected places to display the executions were places closely linked with the target audience, such as hospitals, pharmacy, food city, park ect.

FINAL LOGO DESIGN

RGB (0,0,0)

RGB (244,202,29)

RGB (255,255,255)

Colour palette

Shape of shelter

Shape of dog (negative space-awaiting)

Curve shape typeface Antipasto (rhythmic)

Rotated "e" (enhance the rhythm)

Yellow colour (offering hope, happiness)

Black colour (to enhance elements)

White colour (accessible, readable)



life beat

ADOPT NOW

“I promise a smile on your face, every time you come home”

Over 800 dogs live in traps, you can offer hope for their future. Adopt & enjoy a new lease on life. Meet, a new life today.

www.animalsaveall.com
041 792 1113



memory sharing



life beat

ADOPT NOW **ADOPTION DAY** **MORE INFO**

“Every second will be a new rhythm, for both of us”

Over 800 dogs live in traps, you can offer hope for their future. Adopt & enjoy a new lease on life. Meet, a new life today.

www.animalsaveall.com
041 792 1113

life beat

ADOPT NOW

ADOPTION DAY

MORE INFO

www.animalsaveall.com
041 792 1113

life beat

ADOPTION DAY

ON 1ST OCT AT GALLEFACE GROUND FROM 8 A.M. ONWARDS

you can spend time with dogs, can get them, can get to know them and dogs show

speech of veterinarian, he'll tell the way of take care about dogs, how to treat them.

you can take dogs for a walk, be with them. if you like to adopt, you can make the paper work also.

www.animalsaveall.com
041 792 1113

life beat

MORE INFO

We provide quality veterinary care to stray animals as well as refuge and rehabilitation. We have a beautiful free roaming animal sanctuary in the south of Sri Lanka which provides a safe haven for sick, disabled and vulnerable stray dogs. We also give refuge to rescued cats.

www.animalsaveall.com
041 792 1113

“WHERE EVER YOU GO, I WILL FOLLOW... LIKE A SHADOW”

life beat

ADOPT NOW

“WHERE EVER YOU GO, I WILL FOLLOW... LIKE A SHADOW”

www.animalsaveall.com
041 792 1113

Pharmacies
Medicine envelope
Union Chemists
Healthguard Pharmacy

ADOPT NOW

Medicine envelope			
Life	Racing	White	Rescue

life beat

“Your wake up call will be a loving lick”

Over 800 dogs live in traps, you can offer hope for their future. Adopt & enjoy a new lease on life. Meet, a new life today.

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041 792 1113

Punsara
Senevirathne

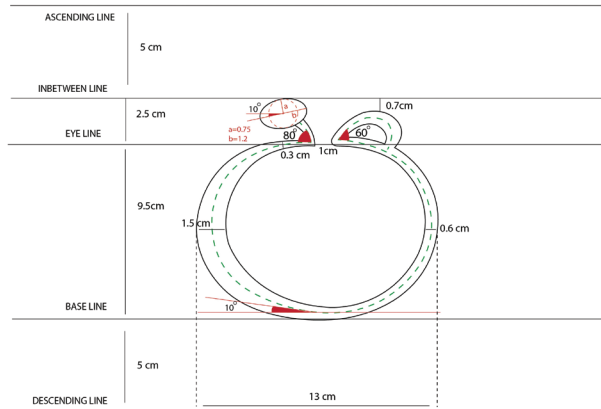
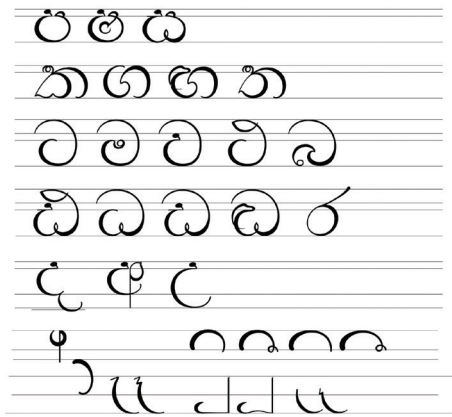


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Designing a Guideline Manual for Sinhala Calligraphy (Special relevance to Southern Kandyan Mural Calligraphy)

In many other countries, there are calligraphic styles related to their languages (Chinese, Arabic and Western calligraphy). In Sri Lanka there are no evidences in written history about calligraphy rather than writing. But there was a traditional Sinhala Calligraphy art related to traditional mural paintings of Buddhist temples in Sri Lanka. The project is focused on establishing a term of Sinhala Calligraphy by documenting the calligraphic forms of magnificent archetypes and as a supportive guide to create the typeface of Southern Mural Calligraphy(Special relevance to Ranvella Nawamuni Viharaya:Kathaluwa new temple, Galle).

20 calligraphic letters and 10 vowel signs of Sinhala alphabet



MEASUREMENTS REGARDING TO HAND DRAWINGS

SCALE: 1:8

Base Letters

STRUCTURE	STROKES	GROUP
Letter ൫ is one of the simplest letter in Sinhala alphabet and it is the entrance to a curvy stroke practice in Sinhala calligraphy.	Use pencil layout for getting started to write a	
Start with a full half circular arc upright ending.	Repeat the arc from the end point of the first arc downward.	

STRUCTURE	STROKES	GROUP
Letter ൫ is a one of an other simplest letter in Sinhala alphabet and it is started with an eye.	Start with the eye, eye is contained with a dot and half stroke.	
Then draw a half arc, applying pressure in first half of it.	Complete the arc from repeating it and end with loop eye from containing it.	

Ascender Letters

STRUCTURE	STROKES	GROUP
Make the eye with a stem outward the letter, then make a half loop upward ending middle of the letter.	Start another half arc from end stroke of early stroke making a knot then continue it right upward.	
From the ending point of early stroke, complete a loop with this stroke, crossing over the early stroke.		

STRUCTURE	STROKES	GROUP
Make an eye with the brush starting and ending from this	Then start another half arc from ending point of that eye.	
Then make hump as drawn here and continue it as letter		

Base Letters

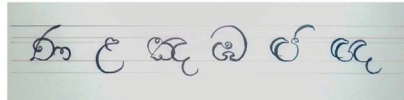
STRUCTURE	STROKES	GROUP
൫ is the widest letter when comparing to other letters in Sinhala calligraphy	Start with the eye and then draw a half arc in a single stroke	
Another stroke from three making a small knot ending with thin line.	Make large outer arc to the right side downward.	

STRUCTURE	STROKES	GROUP
൫ is a curvy letter which contains with left side counter.	Then start a large outer arc as same in the letter ൫	
Complete the letter by ending the stroke downward.		

Ascender Letters

STRUCTURE	STROKES	GROUP
Make an eye with the brush near the base line insuring the letter.(follow pencil layout)	Start a new half arc with thicker stroke upward.	
fill the letter by continuing the stroke.		

Special calligraphic letters in Sinhala



Anatomy of Calligraphy

Loop	Solid eye	Nose	Spiral	Shoulder	Eye
			Descender stroke		Knot
					Ascender stroke
Base stroke	Hook	Knotted eye	Loop		Eye

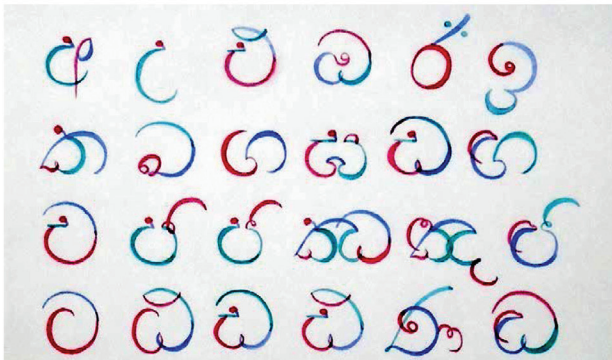
Descended Letters

STRUCTURE	STROKES	GROUP
Vowel in Sinhala alphabet.	Start with the eye, eye is contained with a dot and half stroke.	
Then draw a half arc, applying pressure in first half of it.	Continue the stroke lower than the base stroke and stop it near base line.	

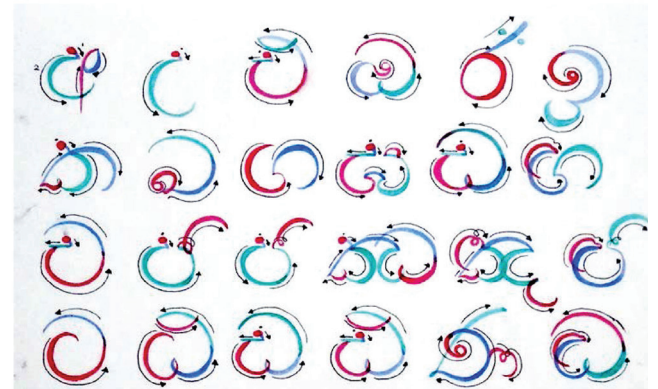
STRUCTURE	STROKES	GROUP
The first letter of the Sinhala Alphabet	Start with the eye, eye is contained with a dot and half stroke. Then draw a half arc, applying pressure in first half of it.	
Draw a line bottom to upward crossing early stroke and make little curve the end part of it.	Then make a loop at the end.	

The Sinhala Calligraphic Alphabet

Derivation of Sinhala letter is from Brahmi script. The letters below shows a style of calligraphic letters of the Southern Kandyan paintings in 19th century, which were calligraphed by brush.(this image shows the alphabet with only the short vowel shapes)



Basic Structure



Samindra
Jayasinghe



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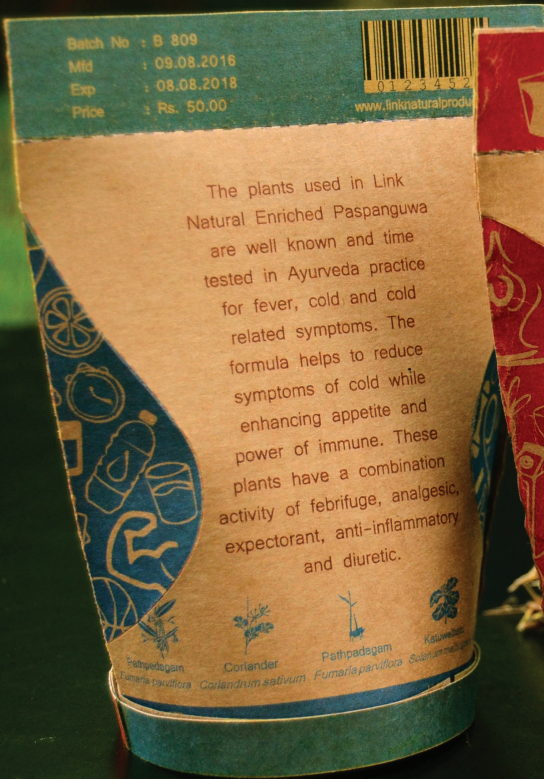
Launching Product of Paspanguwa with new packaging in Sri Lanka

Paspanguwa is a herbal beverage to get relief off colds and cold related symptoms, but as a product it has practical issues in the preparation process. The project focused on the current Paspanguwa pack and a need to position it as a supermarket product.

For the preparation we need a hearth to boil, a filter to filter it as the powder remains at the bottom of the container and several containers for filtering and preparing purposes.

Goal of this project is to introduce Paspanguwa product with a new packaging that avoids practical issues in preparation and to position it in supermarkets.





Tharinda
Dassanayaka

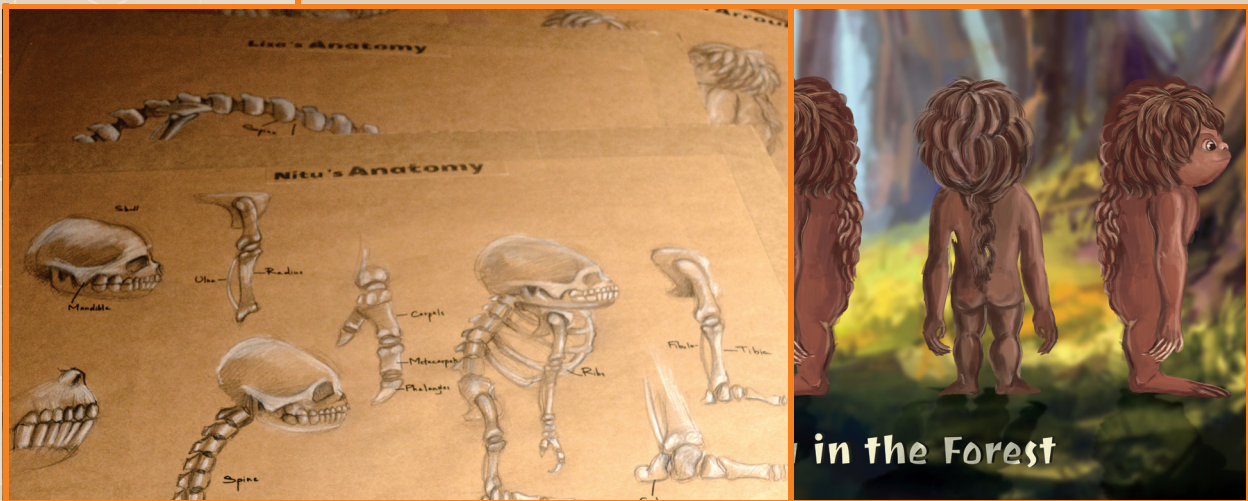


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Character design for NITU short 3D animation movie

Nitu is a 3D short animated movie developed in Sri Lanka by Mr. Nilan Cooray. The movie is for children and it is based on two characters - Nitu and Liza. The characters are developed based on the script and designed after doing a research on the background of the storyline.

Character form, anatomy, character pose, expression, lip syncing, 3D developments, CG1 developments, and how the characters are placed in particular locations were designed through this project.





Solid - Top View

PROJECT: MFL 2010-2011
CLIENT: MFL 2010-2011
DESIGNER: MFL 2010-2011
DATE: 2010-11-20

NITEL



Carpals

Yasoruwan
Gunathilaka

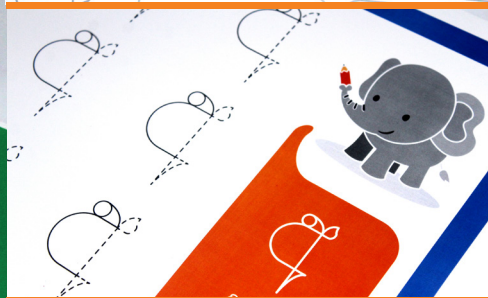
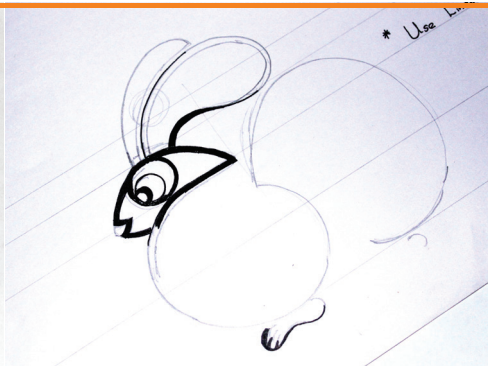


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Supportive Teaching Material Design to Teach Sinhala Letters for Grade 1 Students

Grade one students learning in the Sinhala medium have to read and write Sinhala letters to develop their basic language skills. A primary school teacher in a leading school in Colombo shared her teaching knowledge and explaining her practice of teaching Sinhala letters. This story telling way of teaching can be considered as a novel and creative way to teach Sinhala letters. Through this project supportive teaching materials to visualize her concepts and improve the effectiveness of her teaching method was addressed.





Hasara
Gamage



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Awareness campaign for parents to recognize signs of severe Autism at an early stage of their child

The project was targeted to make mothers aware on severe autism conditions in a more effective manner and to take necessary action

Client - Autism Centre, Maharagama

Message- Avoiding eye contact may be a sign of Autism.

Big idea- Eye Speaks

Execution 01 – posters

The posters are to be displayed in MOH clinics.

Execution 02- paper insert

First the types of newspapers which are read by the target audience, and to observe the child.

Execution 03 – price tag

The message is to be given through the creative use of the price tag of kids clothing.

Execution 04 – play unite

The message will be displayed in play areas in public places.






Make sure you're watching

If he doesn't look at you..

If your child shows a difficulty to make eye contact with you, It might be a sign of Autism. meet your doctor immediatly.



අැරය ඔබ දෙස නොබලයි නම්.....

මෙහි දරුවා ඔබ දෙස බැලීමට අපහසුතාවයක් දක්වයි. නම් එය ඔටිසම් (Autism) වරින් ලක්ෂණයක් විය හැක. නොසලකා හැරීමට මෙවැනිවැනි නම් වන්න.



Product Design

Product design stream aims to provide an education that addresses the theoretical and operational outline of technical projects. This field of specialization acts as a support to all the technical and design details from conception. It prepares students for a professional career in design, development of products, and product related services.

Students learn to identify and solve the problems of product design innovatively and systematically with sensitivity to humanistic, environmental, cultural and social concerns. It equips learners with knowledge in fundamental design skills, general knowledge in academic literacy and a fundamental understanding of business. The objective is to enable learners to device products and services based on user-oriented research, market analysis, technology opportunities, ergonomic criteria, engineering knowledge, business awareness, cultural appreciation and social responsibility to meet the knowledge, needs of both the market and society of Sri Lanka and world.



Ajani
Samarasingha

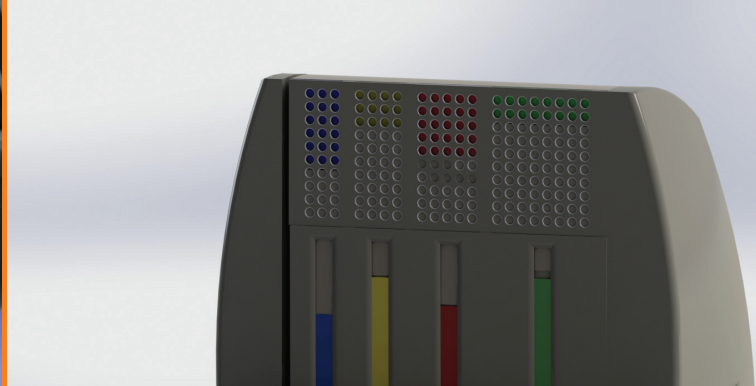
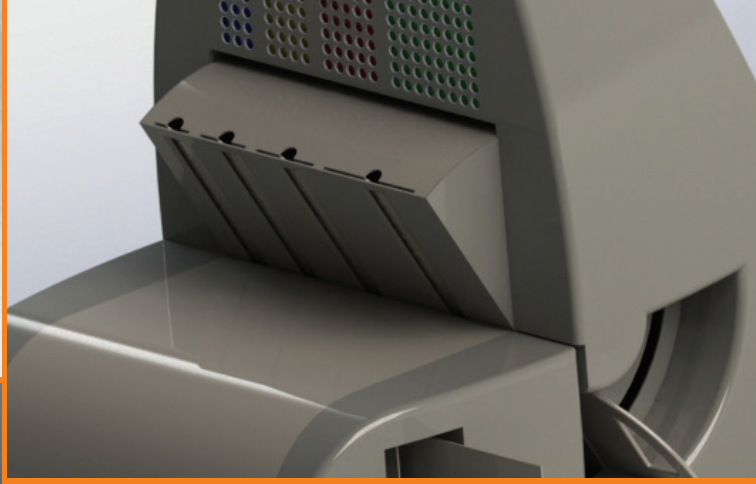
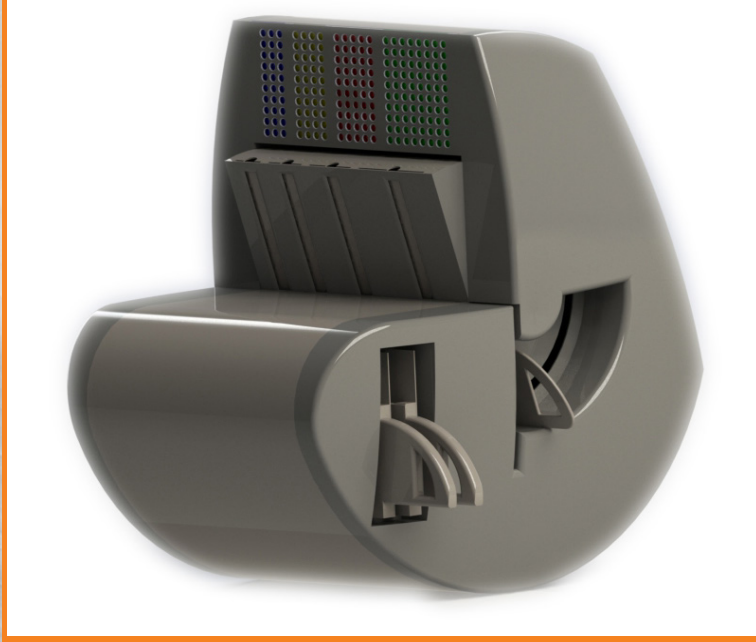


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Ameliorate the Factors of Logical Mathematical Thinking; Aperture Utilized to Improve the Skills of Mathematics in Government School Children in Sri Lanka.

Education in Sri Lanka, is mainly state funded and offered free of charge. "Sri Lanka's population has a literacy rate of 92%, one of the highest literacy rates in Asia". Even though students are benefited from free education, mathematics has the 2nd greatest failure rate, at the GCE O/L examination. Therefore this study has investigated on the culture, student behavior, teaching pattern and existing products of government school of improving mathematical skill. In order to this subjective knowledge, the design is based on improving logical mathematical knowledge at the elementary level by using physical and arbitrary knowledge. The design was created through a the conceptual approach and a theoretical approaches.





Buddika
Weerakoon



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“Green blocks” - For limited space home gardening

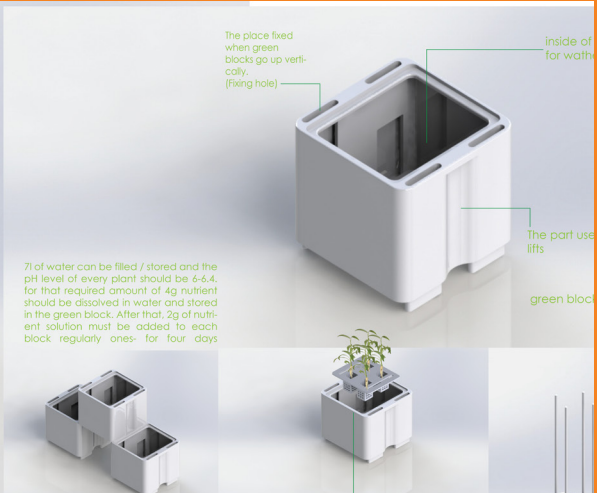
This project introduced a method of growing plants for urban people who lack garden space. Further this method would be useful to those who do not have good fertile soil. The green block would give the option of providing the opportunity to grow plants for consumption.

Customer preferences were recognized through gathering data from urban residents, and using market surveys to recognize customer needs related to the project. ‘Green Blocks’, is a hydroponic system that offers urban residents to cultivate or grow plants they wish in a utilized garden area.



“Green blocks”
For limited space home
gardening

As mentioned in the title, “the green blocks” offers the residents of dwellings located in urban tight areas to cultivate or grow plants belong to diverse categories that they wish to grow in a garden area. So these green blocks will give a new hope for such residents who suffer due to insufficient garden area. As a solution these green blocks could be utilized maximum for home garden with adapted hydroponic non circulating method.



7l of water can be filled / stored and the pH level of every plant should be 6-6.4, for that required amount of 4g nutrient should be dissolved in water and stored in the green block. After that, 2g of nutrient solution must be added to each block regularly ones for four days

triangular arrangement, the amount of sun light received to the above layers is compara-



Chamalka
Madushani



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gmail.com

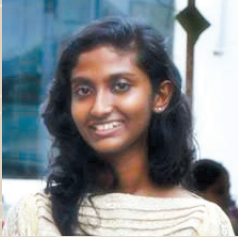
New Furniture Design approach for Amaya Hills

With the concept of 'Inheritance of hills Representing the forms of Architecture, Tradition and Culture of the Kandyan Era', a new design language was introduced to Amaya Hills Kandy. Taking inspiration from the Kandyan period itself, its craft, construction, forms and shapes with special reference to Pekada; a traditional timber construction method was applied. Laksha, Brass, Wood and Cane were among the craft techniques that was applied to suit the hotels concept, appearance and feeling to fill their requirements in an interior upgrade. As the outcome, a set of furniture items for the Deluxe Double bed room has been proposed.





Omayya
Epa



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Designing a child passenger carrier for motor bikes: with special reference to Sri Lankan context

Motorcycles being the main cause of accidents involving children in the Asian countries, this project addressed a safety device to carry youngsters. Set in the local context, the design is affordable, safe and would minimize the impact on accidents. Research was done on the selected target group, lifestyle traits with observations, background studies and other resource areas. The concept 'Secure Grip', is developed according to the ergonomics of the children and the size of motor bikes. This product keeps the child at lock with guards on either side and back area with buckle to be fastened.





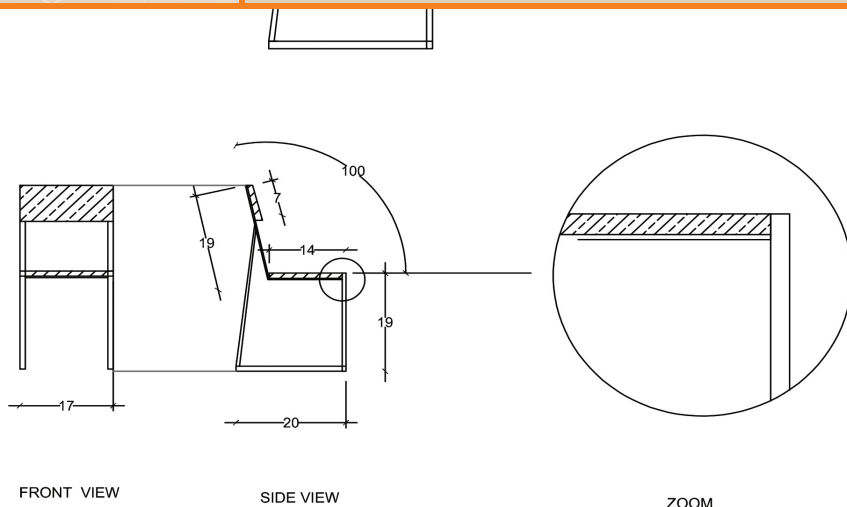
Hansika
Karunasekara



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Design a library seating device for the Community library of Sri Lanka Army, Ambepussa

The concept of 'Community Sustainability' was brought forward to design a set of furniture for the community library of the Sinha regiment which was built under the concept of sustainability, as soldiers are the labor work-force of the construction process. The seating is designed keeping in mind the ease of manufacturing and to maximize the utility value. Flexible and adaptable seating device solutions are proposed when building this system, that can be used across community libraries in Sri Lanka.





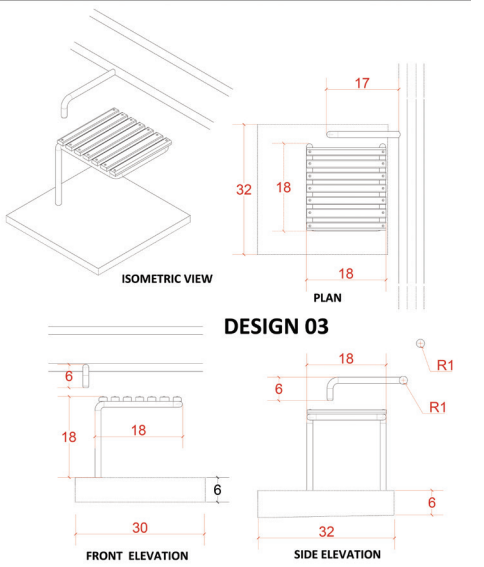
Shasheika
Jayasinghe

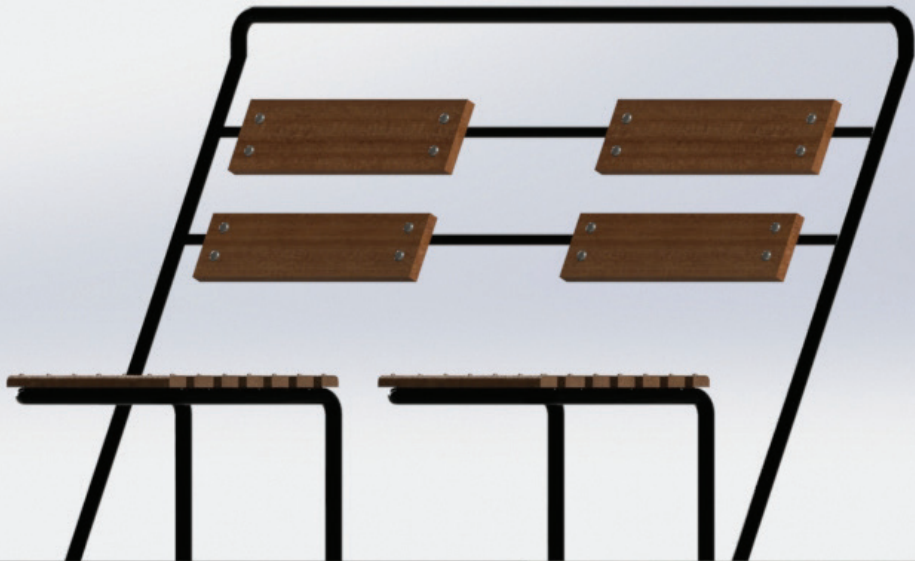


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Supportive structures for resting at the Bellanwila Park

The project proposed a collection of furniture designed to support various resting postures of people visiting the *Weras ganga* park for daily exercises and leisure activities. The use of maximum possible space for recreational activities within the park premises ensure the use of slope areas for the placement of furniture. In addition to supporting various resting postures for limited time periods, the functional concerns on manipulating peoples' behaviors and postures were considered.





Taniya
Gamage



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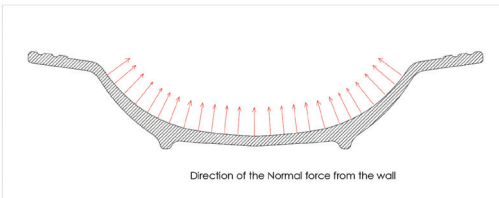
“Deesi” dishes for Authentic Sinhalese Casual Dining

In Sri Lanka, rice and curry is known as the staple food from the ancient times. The real taste of Sinhalese food comes when they are mixed (annv) together. In-order to facilitate this, vessels for eating should have certain characteristics. The need of this project is arose with the identification of the lack of serving vessels for the Sri Lankan food consumer.

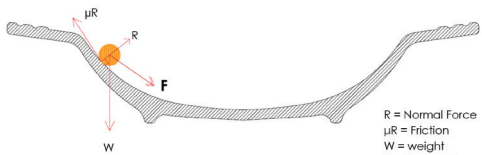
This project identified special characteristics and had developed a set of serving vessels Keeping in mind Sinhalese food habits, ergonomical solutions and a tradition to modern approach.

The final outcome of the project was to present a designer collection of ceramic products.

Plate



Direction of the Normal force from the wall



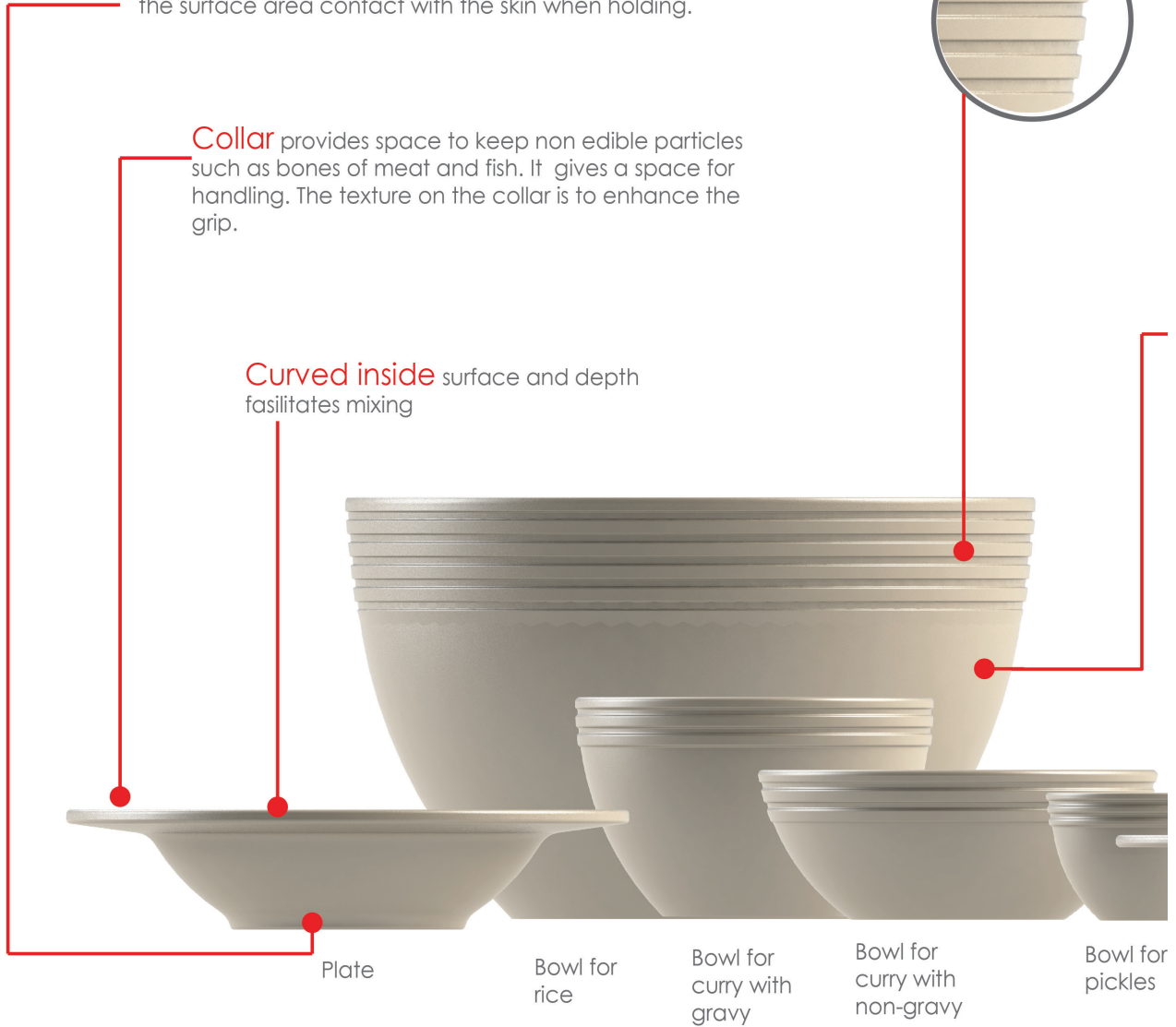
R = Normal Force
 μR = Friction
W = weight
F = Resultant force



Foot keeps the vessel **stable**. It provides a **grip** for holding and reducing the heat conductivity by minimising the surface area contact with the skin when holding.

Collar provides space to keep non edible particles such as bones of meat and fish. It gives a space for handling. The texture on the collar is to enhance the grip.

Curved inside surface and depth facilitates mixing



Kumuduni

Rajapaksha



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Earthen Cookware Set for the Contemporary Sri Lankan Kitchen

With the concept “COOKER TO TABLE” a Marketable, attractive and innovative cookware set for the contemporary Sri Lankan kitchen was designed through this project. The cookware set contains a design series which can be used for all the five methods (boiling rice, boiling curries, steaming, roasting and frying) of cooking in Sri Lanka. The earthen cookware can be used for cooking and serving purpose.

The key idea of the design is the use of the same cookware body-form that addresses multi-functionality. This idea makes way to a new design series, suitable for the contemporary life style. It is user friendly, safety and suitable for gas stove as well as for flat surfaces.





Malsha
Mendis

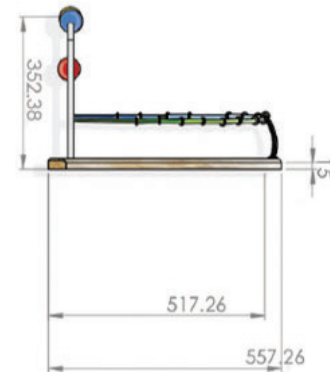
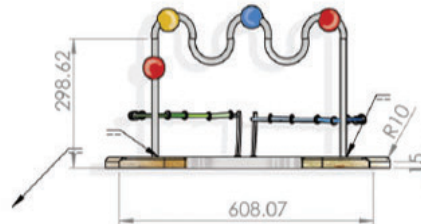
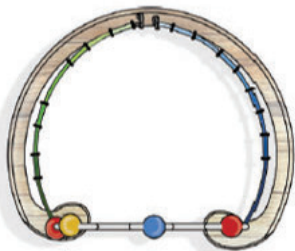


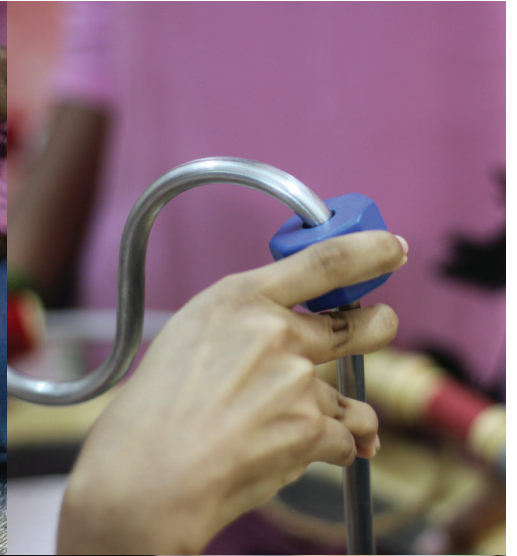
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A learning Device for Intellectually Disabled Early Childhood

The project focused on designing a psychological and physical elaborative Learning device for an educational space of Intellectually Disabled Early childhood children. To encourage “intellectually disable” preschool kids, physically and mentally, through a set of activities to improve gross motor skills within their educational space.

The design is focused on improving gross motor skills, with a sensible function Keeping in mind the medical involvement and design strategy. Project was executed with the concept of “A Drive through Desire”. And it was developed mainly with the visual, tactile and sound stimulation within the class room.





Shanya
Perera



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Therapy Assistive Products to Improve Manual Abilities of Children with Cerebral Palsy

This project introduced products that can be used as assistive devices for physiotherapy and occupational therapy to improve manual abilities of children with Hemiplegic Cerebral Palsy (H.C.P). H.C.P is a motor-neuron disease. A co-design/Participatory design approach was practiced throughout this project to develop the products with the active participation of key stakeholders.

This project consists of three therapy assistive products to improve posture, gross motor functions, fine motor functions and grip of the hand. The complexity of manual abilities engaged through the products are gradually improved from design one to design three.





Shyamal
Peduruhewa



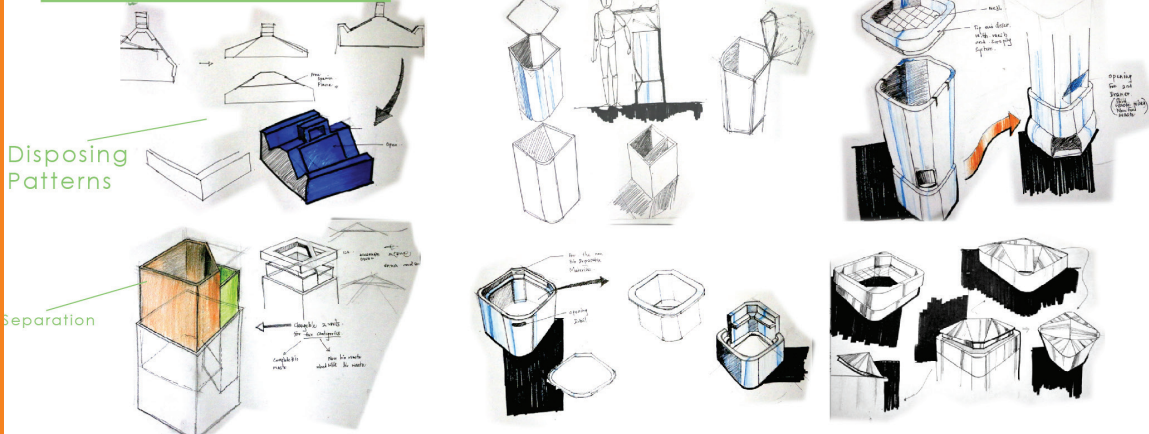
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Solid Waste Disposing Unit for Open Dining Spaces

In our rapidly urbanizing world, solid waste had become a challenge. There are several categories in solid waste, among them institutional waste being the most challenging category to manage.

The product, "Sortmate" is a device to sort and manage the waste. It technically works as a sustainable manager of waste. The concept, "Your Common waste manager" is focused on an attractive modern design to encourage the interaction of user with the actual idea of a perfect manager that will manage the waste.

Development stages





Email Addresses and Names of Students

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Compilation of Graduation Book 2017, Design and Layout :
Dr. Sumanthri Samarawickrama



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